U&T POWER PRODUCT CATALOG

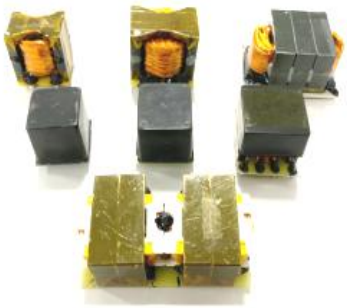
Company Profile

Huizhou U&T Electronics,Inc. was established in December 2009, specializing in the development, manufacture and sales of magnetic devices. The company has an experienced, high-quality and aggressive management team.

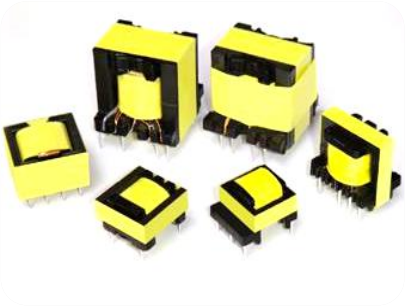
Based on the principle of good faith and win-win, the company is committed to becoming the preferred supplier of customers' magnetic products and a trusted partner of suppliers. The company provides each employee with a platform for value realization and helps employees realize their life dreams. The company operates in a standardized way, actively participates in public welfare activities, and aims to become an enterprise of great value to industrial progress and social development.

Main products: power inductors, power transformers, common mode inductors and other products. The products are widely used in computer motherboards, digital products, home appliances, communication terminal products and new energy charging piles.

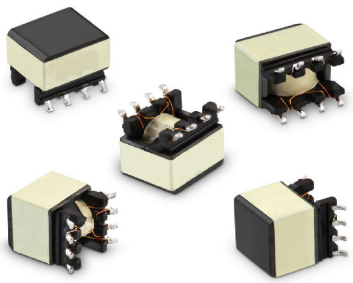
Power Inductor



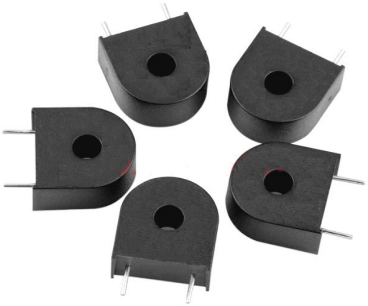
High power Transformer



Switching Power Supply Transformer

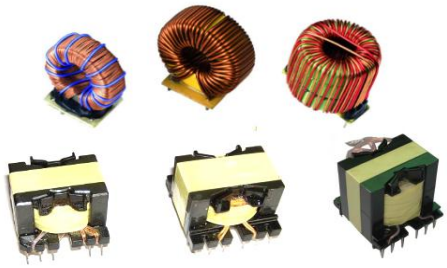


Gate Drive Transformer

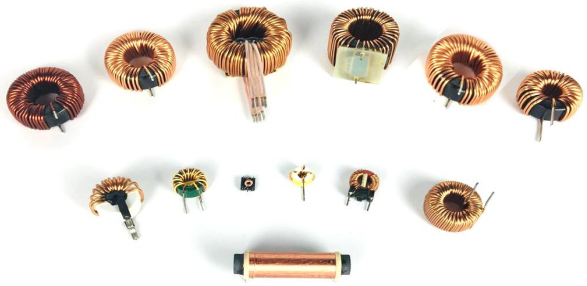


Current Sense Transformer

Common Mode Choke



PFC Choke



Filter Choke

PRODUCT CATALOG

PRODUCT CATALOG

POWER INDUCTOR CATALOG

Scope of products

1.U&T inductor are manufacture and promoted for use in general electronics devices,such sa laptop computers,flat TV,autocar equipments,DC/DC converter, office-automation equipment,digital products and other background lighting electronics equipment.

2.-25℃~ + 105℃ (includes temperature when the products is heated).

3.When using the product if you encounter difficulties, Can contact our sales staff.

General stipulations for products use

1.Products should not be kept in unsuitable storage conditions, such as areas susceptible to high

2.Always handle products with care.

3.Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering.Always ensure optimum conditions for soldering.

4.Refrain from rinsing coils. If necessary, please consult with our company.

5.Our products are designed for automatic mounting. Please be careful if soldering by hand.

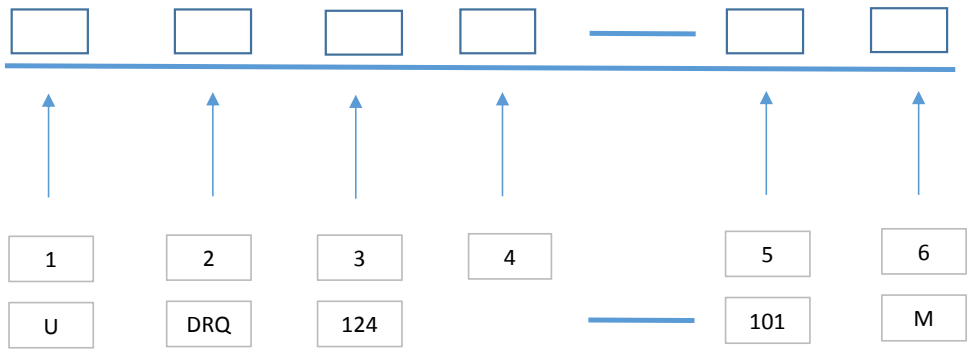
6.Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

7.Don’t bend the terminals or subject them to excessive stress.

8.When using our high voltage inverter transformers place 2mm away from the electric conductor.

9.Don’t touch any exposed winding part and avoid coming into contact with the guide of electrode in automatic mounting.

POWER INDUCTOR PRODUCT IDENTIFICATION



1. U means U&T
2. Serise name:(DR, DRQ, DRL, DRLR…)
3. Dimensions
4. Special code:different from conventional products, A, B, C can be used
5. Inductance value:101 mean 10*10^1=100uH, 102 mean 10*10^2=1000uH, 6R8 mean 6.8
6. Tolerance:(K:10%, L:±15%, M:±20%, N:±30%)

U&T ELECTRONICS, INC.

UDR SERIES

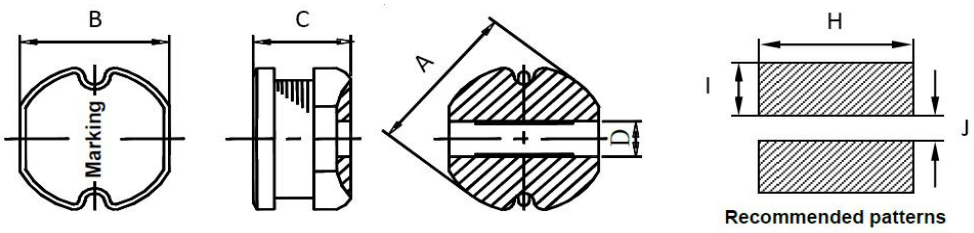
Product Description

Open magnetic circuit construction
Sliver plated type, low cost design
Ideal inductor for DC-DC conversion
Except the standard versions of inductors here,
custom inductors are available to meet your exact requirement

Applications

Used in mobilephone, PDA, LCD, Notebook, portable DVD, etc as DC-DC Converter inductors.

Shapes and Dimensions(mm)



Part No.	A	B	C	D(Typ.)	H	I	J
UDR32	3.5±0.3	3.0±0.3	2.1±0.3	1.0	3.5	0.8	1.6
UDR43	4.5±0.3	4.0±0.3	3.2±0.3	1.4	4.5	1.2	1.75
UDR53	5.8±0.3	5.2±0.3	3.2±0.3	1.6	5.4	1.8	2.2
UDR54	5.8±0.3	5.2±0.3	4.5±0.3	1.6	5.5	1.7	2.2
UDR73	7.8±0.3	7.0±0.3	3.5±0.5	2.4	7.5	3	2
UDR75	5.8±0.3	5.2±0.3	5.0±0.5	2.4	7.5	3	2
UDR104	10±0.3	9±0.3	4.0±0.5	3.1	9.5	3.75	2.5
UDR105	10±0.3	9±0.3	5.4±0.5	3.1	9.5	3.75	2.5

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR32	UDR32-1R0M	1.0±20%	100KHz/0.1V	0.045	2.20
	UDR32-1R2M	1.2±20%	100KHz/0.1V	0.050	2.10
	UDR32-1R5M	1.5±20%	100KHz/0.1V	0.055	1.70
	UDR32-1R8M	1.8±20%	100KHz/0.1V	0.070	1.65
	UDR32-2R2M	2.2±20%	100KHz/0.1V	0.085	1.60
	UDR32-2R7M	2.7±20%	100KHz/0.1V	0.100	1.40
	UDR32-3R3M	3.3±20%	100KHz/0.1V	0.120	1.05
	UDR32-3R9M	3.9±20%	100KHz/0.1V	0.125	1.00
	UDR32-4R7M	4.7±20%	100KHz/0.1V	0.135	1.00
	UDR32-5R6M	5.6±20%	100KHz/0.1V	0.145	0.95
	UDR32-6R8M	6.8±20%	100KHz/0.1V	0.200	0.95
	UDR32-8R2M	8.2±20%	100KHz/0.1V	0.250	0.92
	UDR32-100K	10±10%	100KHz/0.1V	0.320	0.90
	UDR32-120K	12±10%	100KHz/0.1V	0.350	0.85
	UDR32-150K	15±10%	100KHz/0.1V	0.460	0.75
	UDR32-180K	18±10%	100KHz/0.1V	0.520	0.70
	UDR32-220K	22±10%	100KHz/0.1V	0.650	0.60
	UDR32-270K	27±10%	100KHz/0.1V	0.750	0.55
	UDR32-330K	33±10%	100KHz/0.1V	0.920	0.50
	UDR32-390K	39±10%	100KHz/0.1V	1.000	0.48
	UDR32-470K	47±10%	100KHz/0.1V	1.150	0.45
	UDR32-560K	56±10%	100KHz/0.1V	1.500	0.30
	UDR32-680K	68±10%	100KHz/0.1V	2.000	0.26
	UDR32-820K	82±10%	100KHz/0.1V	2.150	0.23
	UDR32-101K	100±10%	100KHz/0.1V	2.500	0.20
	UDR32-121K	120±10%	100KHz/0.1V	3.400	0.18
	UDR32-151K	150±10%	100KHz/0.1V	4.200	0.16
	UDR32-181K	180±10%	100KHz/0.1V	4.500	0.15
	UDR32-221K	220±10%	100KHz/0.1V	5.100	0.14
	UDR32-271K	270±10%	100KHz/0.1V	8.500	0.10
	UDR32-331K	330±10%	100KHz/0.1V	9.500	0.10
	UDR32-391K	390±10%	100KHz/0.1V	11.000	0.10
	UDR32-471K	470±10%	100KHz/0.1V	12.000	0.09

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR43	UDR43-1R0M	1.0±20%	100KHz/0.1V	0.033	3.80
	UDR43-1R4M	1.4±20%	100KHz/0.1V	0.038	3.30
	UDR43-1R8M	1.8±20%	100KHz/0.1V	0.042	2.90
	UDR43-2R2M	2.2±20%	100KHz/0.1V	0.047	2.60
	UDR43-2R7M	2.7±20%	100KHz/0.1V	0.052	2.43
	UDR43-3R3M	3.3±20%	100KHz/0.1V	0.058	2.15
	UDR43-3R9M	3.9±20%	100KHz/0.1V	0.076	1.98
	UDR43-4R7M	4.7±20%	100KHz/0.1V	0.094	1.70
	UDR43-5R6M	5.6±20%	100KHz/0.1V	0.101	1.60
	UDR43-6R8M	6.8±20%	100KHz/0.1V	0.117	1.41
	UDR43-8R2M	8.2±20%	100KHz/0.1V	0.132	1.26
	UDR43-100K	10±10%	100KHz/0.1V	0.182	1.15
	UDR43-120K	12±10%	100KHz/0.1V	0.210	1.05
	UDR43-150K	15±10%	100KHz/0.1V	0.235	0.92
	UDR43-180K	18±10%	100KHz/0.1V	0.338	0.84
	UDR43-220K	22±10%	100KHz/0.1V	0.378	0.76
	UDR43-270K	27±10%	100KHz/0.1V	0.522	0.71
	UDR43-330K	33±10%	100KHz/0.1V	0.540	0.64
	UDR43-390K	39±10%	100KHz/0.1V	0.587	0.59
	UDR43-470K	47±10%	100KHz/0.1V	0.844	0.54
	UDR43-560K	56±10%	100KHz/0.1V	0.937	0.50
	UDR43-680K	68±10%	100KHz/0.1V	1.117	0.46
	UDR43-820K	82±10%	100KHz/0.1V	1.345	0.45
	UDR43-101K	100±10%	100KHz/0.1V	1.520	0.44
	UDR43-121K	120±10%	100KHz/0.1V	1.800	0.43
	UDR43-151K	150±10%	100KHz/0.1V	2.000	0.42
	UDR43-181K	180±10%	100KHz/0.1V	3.200	0.38
	UDR43-221K	220±10%	100KHz/0.1V	3.400	0.36
	UDR43-271K	270±10%	100KHz/0.1V	3.900	0.34
	UDR43-331K	330±10%	100KHz/0.1V	5.300	0.28
	UDR43-391K	390±10%	100KHz/0.1V	5.900	0.24
	UDR43-471K	470±10%	100KHz/0.1V	6.800	0.21

NOTES:

1. All data tested at 20℃

2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR53	UDR53-1R5M	1.5±20%	100KHz/0.1V	0.035	3.10
	UDR53-2R2M	2.2±20%	100KHz/0.1V	0.040	3.00
	UDR53-2R7M	2.7±20%	100KHz/0.1V	0.047	2.90
	UDR53-3R3M	3.3±20%	100KHz/0.1V	0.055	2.80
	UDR53-3R9M	3.9±20%	100KHz/0.1V	0.060	2.70
	UDR53-4R7M	4.7±20%	100KHz/0.1V	0.070	2.60
	UDR53-5R6M	5.6±20%	100KHz/0.1V	0.080	2.50
	UDR53-6R8M	6.8±20%	100KHz/0.1V	0.090	2.40
	UDR53-8R2M	8.2±20%	100KHz/0.1V	0.110	2.30
	UDR53-100K	10±10%	100KHz/0.1V	0.130	2.20
	UDR53-150K	15±10%	100KHz/0.1V	0.180	2.00
	UDR53-220K	22±10%	100KHz/0.1V	0.260	1.60
	UDR53-270K	27±10%	100KHz/0.1V	0.280	1.40
	UDR53-330K	33±10%	100KHz/0.1V	0.380	1.30
	UDR53-390K	39±10%	100KHz/0.1V	0.440	1.20
	UDR53-470K	47±10%	100KHz/0.1V	0.490	0.90
	UDR53-560K	56±10%	100KHz/0.1V	0.550	0.85
	UDR53-680K	68±10%	100KHz/0.1V	0.680	0.80
	UDR53-820K	82±10%	100KHz/0.1V	0.860	0.80
	UDR53-101K	100±10%	100KHz/0.1V	0.960	0.70
	UDR53-221K	220±10%	100KHz/0.1V	2.100	0.30
	UDR53-271K	270±10%	100KHz/0.1V	2.500	0.28
	UDR53-331K	330±10%	100KHz/0.1V	4.000	0.25
	UDR53-681K	680±10%	100KHz/0.1V	8.000	0.18
	UDR53-102K	1000±10%	100KHz/0.1V	11.500	0.14

NOTES:

1.All data tested at 20℃

2.Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR54	UDR54-1R0M	1.0±20%	100KHz/0.1V	0.013	4.60
	UDR54-1R2M	1.2±20%	100KHz/0.1V	0.015	4.50
	UDR54-1R5M	1.5±20%	100KHz/0.1V	0.020	4.00
	UDR54-2R2M	2.2±20%	100KHz/0.1V	0.026	3.50
	UDR54-3R3M	3.3±20%	100KHz/0.1V	0.035	3.00
	UDR54-4R7M	4.7±20%	100KHz/0.1V	0.045	2.80
	UDR54-5R6M	5.6±20%	100KHz/0.1V	0.050	2.70
	UDR54-6R8M	6.8±20%	100KHz/0.1V	0.060	2.50
	UDR54-8R2M	8.2±20%	100KHz/0.1V	0.070	2.20
	UDR54-100K	10±10%	100KHz/0.1V	0.080	2.00
	UDR54-150K	15±10%	100KHz/0.1V	0.120	1.80
	UDR54-220K	22±10%	100KHz/0.1V	0.150	1.20
	UDR54-270K	27±10%	100KHz/0.1V	0.160	1.10
	UDR54-330K	33±10%	100KHz/0.1V	0.200	1.00
	UDR54-390K	39±10%	100KHz/0.1V	0.260	0.90
	UDR54-470K	47±10%	100KHz/0.1V	0.340	0.85
	UDR54-560K	56±10%	100KHz/0.1V	0.380	0.80
	UDR54-680K	68±10%	100KHz/0.1V	0.440	0.60
	UDR54-820K	82±10%	100KHz/0.1V	0.500	0.60
	UDR54-101K	100±10%	100KHz/0.1V	0.660	0.50
	UDR54-121K	100±10%	100KHz/0.2V	0.850	0.45
	UDR54-221K	220±10%	100KHz/0.1V	1.500	0.25
	UDR54-271K	270±10%	100KHz/0.1V	0.800	0.23
	UDR54-331K	330±10%	100KHz/0.1V	2.500	0.30
	UDR54-471K	470±10%	100KHz/0.1V	3.400	0.30
	UDR54-102K	1000±10%	100KHz/0.1V	5.440	0.12

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR73	UDR73-1R5M	1.5±20%	100KHz/0.1V	0.015	5.0
	UDR73-2R2M	2.2±20%	100KHz/0.1V	0.015	4.5
	UDR73-3R3M	3.3±20%	100KHz/0.1V	0.035	3.5
	UDR73-4R7M	4.7±20%	100KHz/0.1V	0.040	3.2
	UDR73-5R6M	5.6±20%	100KHz/0.1V	0.050	3.0
	UDR73-6R8M	6.8±20%	100KHz/0.1V	0.055	2.5
	UDR73-8R2M	8.2±20%	100KHz/0.1V	0.060	2.3
	UDR73-100K	10±10%	100KHz/0.1V	0.080	2.0
	UDR73-150K	15±10%	100KHz/0.1V	0.110	1.8
	UDR73-220K	22±10%	100KHz/0.1V	0.140	1.6
	UDR73-270K	27±10%	100KHz/0.1V	0.180	1.4
	UDR73-330K	33±10%	100KHz/0.1V	0.210	1.3
	UDR73-390K	39±10%	100KHz/0.1V	0.220	1.2
	UDR73-470K	47±10%	100KHz/0.1V	0.230	1.1
	UDR73-560K	56±10%	100KHz/0.1V	0.350	1.0
	UDR73-680K	68±10%	100KHz/0.1V	0.370	0.9
	UDR73-820K	82±10%	100KHz/0.1V	0.390	0.8
	UDR73-101K	100±10%	100KHz/0.1V	0.530	0.7
	UDR73-221K	220±10%	100KHz/0.1V	0.990	0.5
	UDR73-331K	330±10%	100KHz/0.1V	1.580	0.4
	UDR73-471K	470±10%	100KHz/0.1V	2.100	0.3

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR75	UDR75-100K	10±10%	100KHz/0.1V	0.07	2.30
	UDR75-120K	12±10%	100KHz/0.1V	0.08	2.00
	UDR75-150K	15±10%	100KHz/0.1V	0.09	1.80
	UDR75-180K	18±11%	100KHz/0.2V	0.10	1.60
	UDR75-220K	22±10%	100KHz/0.1V	0.11	1.50
	UDR75-270K	27±10%	100KHz/0.1V	0.12	1.30
	UDR75-330K	33±10%	100KHz/0.1V	0.13	1.20
	UDR75-390K	39±10%	100KHz/0.1V	0.16	1.10
	UDR75-470K	47±10%	100KHz/0.1V	0.18	1.00
	UDR75-560K	56±10%	100KHz/0.1V	0.24	0.94
	UDR75-680K	68±10%	100KHz/0.1V	0.28	0.85
	UDR75-820K	82±10%	100KHz/0.1V	0.37	0.78
	UDR75-101K	100±10%	100KHz/0.1V	0.43	0.72
	UDR75-121K	120±10%	100KHz/0.2V	0.47	0.66
	UDR75-151K	150±10%	100KHz/0.3V	0.64	0.58
	UDR75-181K	180±10%	100KHz/0.4V	0.71	0.51
	UDR75-221K	220±10%	100KHz/0.1V	0.96	0.49
	UDR75-271K	270±10%	100KHz/0.1V	1.11	0.42
	UDR75-331K	330±10%	100KHz/0.1V	1.26	0.40
	UDR75-332K	330±10%	100KHz/0.2V	1.77	0.36
	UDR75-471K	470±10%	100KHz/0.1V	1.96	0.34
	UDR75-561K	560±10%	100KHz/0.2V	2.00	0.33
	UDR75-681K	680±10%	100KHz/0.3V	2.20	0.32
	UDR75-821K	820±10%	100KHz/0.4V	2.90	0.25
	UDR75-102K	1000±10%	100KHz/0.1V	3.90	0.20

NOTES:

1.All data tested at 20℃

2.Rated current : The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.

3.Operating temperature：-25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR104	UDR104-100K	10±10%	100KHz/0.1V	0.053	2.38
	UDR104-120K	12±10%	100KHz/0.1V	0.061	2.13
	UDR104-150K	15±10%	100KHz/0.1V	0.070	1.87
	UDR104-180K	18±10%	100KHz/0.1V	0.081	1.73
	UDR104-220K	22±10%	100KHz/0.1V	0.088	1.60
	UDR104-270K	27±10%	100KHz/0.1V	0.100	1.44
	UDR104-330K	33±10%	100KHz/0.1V	0.120	1.26
	UDR104-390K	39±10%	100KHz/0.1V	0.151	1.20
	UDR104-470K	47±10%	100KHz/0.1V	0.170	1.10
	UDR104-560K	56±10%	100KHz/0.1V	0.199	1.01
	UDR104-680K	68±10%	100KHz/0.1V	0.223	0.91
	UDR104-820K	82±10%	100KHz/0.1V	0.252	0.85
	UDR104-101K	100±10%	100KHz/0.1V	0.344	0.74
	UDR104-121K	120±10%	100KHz/0.1V	0.396	0.69
	UDR104-151K	150±10%	100KHz/0.1V	0.544	0.61
	UDR104-181K	180±10%	100KHz/0.1V	0.621	0.56
	UDR104-221K	220±10%	100KHz/0.1V	0.721	0.53
	UDR104-271K	270±10%	100KHz/0.1V	0.949	0.45
	UDR104-331K	330±10%	100KHz/0.1V	1.100	0.42
	UDR104-391K	390±10%	100KHz/0.1V	1.245	0.38
	UDR104-471K	470±10%	100KHz/0.1V	1.526	0.35
	UDR104-561K	1000±10%	100KHz/0.1V	1.904	0.32

NOTES:

1.All data tested at 20℃

2.Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.

3.Operating temperature：-25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDR105	UDR105-100K	10±10%	100KHz/0.1V	0.06	2.60
	UDR105-120K	12±10%	100KHz/0.1V	0.07	2.45
	UDR105-150K	15±10%	100KHz/0.1V	0.08	2.27
	UDR105-180K	18±10%	100KHz/0.1V	0.09	2.15
	UDR105-220K	22±10%	100KHz/0.1V	0.10	1.95
	UDR105-270K	27±10%	100KHz/0.1V	0.11	1.76
	UDR105-330K	33±10%	100KHz/0.1V	0.12	1.50
	UDR105-390K	39±10%	100KHz/0.1V	0.14	1.37
	UDR105-470K	47±10%	100KHz/0.1V	0.17	1.28
	UDR105-560K	56±10%	100KHz/0.1V	0.19	1.17
	UDR105-680K	68±10%	100KHz/0.1V	0.22	1.11
	UDR105-820K	82±10%	100KHz/0.1V	0.25	1.00
	UDR105-101K	100±10%	100KHz/0.1V	0.35	0.97
	UDR105-121K	120±10%	100KHz/0.1V	0.40	0.89
	UDR105-151K	150±10%	100KHz/0.1V	0.47	0.78
	UDR105-181K	180±10%	100KHz/0.1V	0.63	0.72
	UDR105-221K	220±10%	100KHz/0.1V	0.73	0.66
	UDR105-271K	270±10%	100KHz/0.1V	0.97	0.57
	UDR105-331K	330±10%	100KHz/0.1V	1.15	0.52
	UDR105-391K	390±10%	100KHz/0.1V	1.30	0.48
	UDR105-471K	470±10%	100KHz/0.1V	1.48	0.42
	UDR105-561K	560±10%	100KHz/0.1V	1.90	0.33
	UDR105-681K	680±10%	100KHz/0.1V	2.25	0.28
	UDR105-821K	820±10%	100KHz/0.1V	2.55	0.24

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

UDRL SERIES

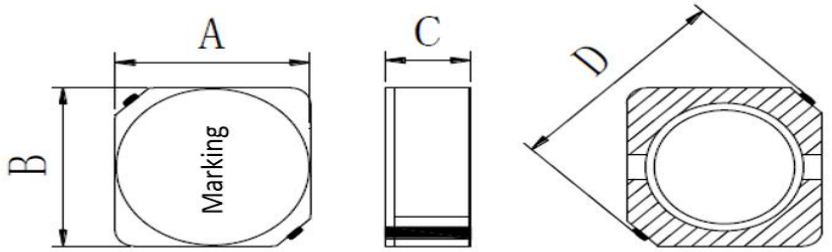
Product Description

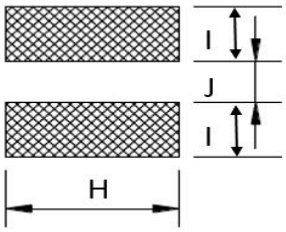
Available in magnetically shielded
Small size with high power and high satruation current
Suitable for surface mounting
Except the standard versions of inductors here,
custom inductors are available to meet your exact requirement

Applications

Used in mobilephone, PDA, LCD, Notebook, portable DVD, etc as DC-DC Converter inductors.

Shapes and Dimensions(mm)





Recommended patterns

Part No.	A	B	C	D(Typ.)	H	I	J
UDRL520	4.7±0.3	4.7±0.3	2.0 MAX	6.9 MAX	5.3	1.9	1.5
UDRL530	4.7±0.3	4.7±0.3	3.0 MAX	6.9 MAX	5.3	1.9	1.5
UDRL620	5.8±0.3	5.2±0.3	2.0 MAX	8.2 MAX	6.3	2.1	2.0
UDRL630	5.8±0.3	5.2±0.3	3.0 MAX	8.2 MAX	6.3	2.1	2.0
UDRL730	7.8±0.3	7.0±0.3	3.0 MAX	9.5 MAX	7.3	2.6	2.0
UDRL740	5.8±0.3	5.2±0.3	4.0 MAX	9.5 MAX	7.3	2.6	2.0

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL520	UDRL520-1R0N	1.0±30%	100KHz/0.3V	0.045	1.72
	UDRL520-2R2N	2.2±30%	100KHz/0.3V	0.075	1.32
	UDRL520-2R7N	2.7±30%	100KHz/0.3V	0.105	1.28
	UDRL520-3R3N	3.3±30%	100KHz/0.3V	0.110	1.04
	UDRL520-3R9N	3.9±30%	100KHz/0.3V	0.155	0.88
	UDRL520-4R7N	4.7±30%	100KHz/0.3V	0.162	0.84
	UDRL520-5R6N	5.6±30%	100KHz/0.3V	0.170	0.80
	UDRL520-6R8N	6.8±30%	100KHz/0.3V	0.190	0.76
	UDRL520-100M	10±20%	100KHz/0.3V	0.200	0.61
	UDRL520-120M	12±20%	100KHz/0.3V	0.210	0.56
	UDRL520-150M	15±20%	100KHz/0.3V	0.240	0.50
	UDRL520-180M	18±20%	100KHz/0.3V	0.338	0.48
	UDRL520-220M	22±20%	100KHz/0.3V	0.397	0.41
	UDRL520-270M	27±20%	100KHz/0.3V	0.441	0.35
	UDRL520-330M	33±20%	100KHz/0.3V	0.694	0.32
	UDRL520-390M	39±20%	100KHz/0.3V	0.709	0.30
	UDRL520-470M	47±20%	100KHz/0.3V	0.922	0.28
	UDRL520-560M	56±20%	100KHz/0.3V	1.080	0.26
	UDRL520-680M	68±20%	100KHz/0.3V	1.300	0.24
	UDRL520-820M	82±20%	100KHz/0.3V	1.560	0.22
	UDRL520-101M	100±20%	100KHz/0.3V	1.730	0.20
	UDRL520-121M	120±20%	100KHz/0.3V	2.390	0.18
	UDRL520-151M	150±20%	100KHz/0.3V	2.670	0.15
	UDRL520-181M	180±20%	100KHz/0.3V	4.000	0.14

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 35% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: --25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL530	UDRL530-1R2N	1.0±30%	100KHz/0.3V	0.240	2.56
	UDRL530-2R2N	2.2±30%	100KHz/0.3V	0.310	2.04
	UDRL530-3R3N	3.3±30%	100KHz/0.3V	0.049	1.57
	UDRL530-4R7N	4.7±30%	100KHz/0.3V	0.072	1.32
	UDRL530-5R6N	5.6±30%	100KHz/0.3V	0.101	1.17
	UDRL530-6R8N	6.8±30%	100KHz/0.3V	0.108	1.12
	UDRL530-8R2N	8.2±30%	100KHz/0.3V	0.118	1.04
	UDRL530-100M	10±20%	100KHz/0.3V	0.128	1.00
	UDRL530-120M	12±20%	100KHz/0.3V	0.132	0.84
	UDRL530-150M	15±20%	100KHz/0.3V	0.149	0.76
	UDRL530-180M	18±20%	100KHz/0.3V	0.165	0.72
	UDRL530-220M	22±20%	100KHz/0.3V	0.235	0.70
	UDRL530-330M	33±20%	100KHz/0.3V	0.331	0.56
	UDRL530-390M	39±20%	100KHz/0.3V	0.384	0.50
	UDRL530-470M	47±20%	100KHz/0.3V	0.587	0.48
	UDRL530-560M	56±20%	100KHz/0.3V	0.624	0.41
	UDRL530-680M	68±20%	100KHz/0.3V	0.699	0.35
	UDRL530-820M	82±20%	100KHz/0.3V	0.915	0.32
	UDRL530-101M	100±20%	100KHz/0.3V	1.020	0.29
	UDRL530-121M	120±20%	100KHz/0.3V	1.270	0.27
	UDRL530-151M	150±20%	100KHz/0.3V	1.350	0.24
	UDRL530-181M	180±20%	100KHz/0.3V	1.540	0.22
	UDRL530-221M	220±20%	100KHz/0.3V	1.720	0.20
	UDRL530-271M	270±20%	100KHz/0.3V	1.950	0.16

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 35% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL620	UDRL620-3R3N	3.3±30%	100KHz/0.3V	0.053	2.00
	UDRL620-4R7N	4.7±30%	100KHz/0.3V	0.060	1.90
	UDRL620-5R6N	5.6±30%	100KHz/0.3V	0.076	1.60
	UDRL620-6R8N	6.8±30%	100KHz/0.3V	0.105	1.40
	UDRL620-100M	10±20%	100KHz/0.3V	0.124	1.20
	UDRL620-120M	12±20%	100KHz/0.3V	0.153	1.10
	UDRL620-180M	18±20%	100KHz/0.3V	0.210	0.85
	UDRL620-220M	22±20%	100KHz/0.3V	0.290	0.80
	UDRL620-270M	27±20%	100KHz/0.3V	0.330	0.75
	UDRL620-330M	33±20%	100KHz/0.3V	0.386	0.65
	UDRL620-390M	39±20%	100KHz/0.3V	0.520	0.57
	UDRL620-470M	47±20%	100KHz/0.3V	0.595	0.54
	UDRL620-560M	56±20%	100KHz/0.3V	0.665	0.50
	UDRL620-680M	68±20%	100KHz/0.3V	0.840	0.43
	UDRL620-820M	82±20%	100KHz/0.3V	0.978	0.41
	UDRL620-101M	100±20%	100KHz/0.3V	1.200	0.36
	UDRL620-121M	120±20%	100KHz/0.3V	1.500	0.33
	UDRL620-151M	150±20%	100KHz/0.3V	1.710	0.31
	UDRL620-181M	180±20%	100KHz/0.3V	3.830	0.21
	UDRL620-221M	220±20%	100KHz/0.3V	4.340	0.18

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 35% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL630	UDRL630-2R2N	2.2±30%	100KHz/0.3V	0.017	2.60
	UDRL630-3R3N	3.3±30%	100KHz/0.3V	0.029	2.40
	UDRL630-100M	10±20%	100KHz/0.3V	0.065	1.30
	UDRL630-120M	12±20%	100KHz/0.3V	0.076	1.20
	UDRL630-180M	18±20%	100KHz/0.3V	0.110	1.00
	UDRL630-220M	22±20%	100KHz/0.3V	0.122	0.90
	UDRL630-330M	33±20%	100KHz/0.3V	0.189	0.75
	UDRL630-470M	47±20%	100KHz/0.3V	0.250	0.62
	UDRL630-560M	56±20%	100KHz/0.3V	0.305	0.58
	UDRL630-680M	68±20%	100KHz/0.3V	0.355	0.52
	UDRL630-820M	82±20%	100KHz/0.3V	0.463	0.46
	UDRL630-101M	100±20%	100KHz/0.3V	0.520	0.42
	UDRL630-121M	120±20%	100KHz/0.3V	0.560	0.40
	UDRL630-151M	150±20%	100KHz/0.3V	0.680	0.35
	UDRL630-181M	180±20%	100KHz/0.3V	0.930	0.32
	UDRL630-221M	220±20%	100KHz/0.3V	1.150	0.30
	UDRL630-271M	270±20%	100KHz/0.3V	1.560	0.27
	UDRL630-331M	330±20%	100KHz/0.3V	1.980	0.25
	UDRL630-391M	390±20%	100KHz/0.3V	2.500	0.22
	UDRL630-471M	470±20%	100KHz/0.3V	2.700	0.20
	UDRL630-561M	560±20%	100KHz/0.3V	3.120	0.18
	UDRL630-681M	680±20%	100KHz/0.3V	4.150	0.16

NOTES:

1.All data tested at 20℃

2.Rated current:The DC current at which causes the inductance decrease by 35% or the temperature rise by 40℃ ,which is lower.

3.Operating temperature：-25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL730	UDRL730-3R3N	3.3±30%	100KHz/0.3V	0.260	2.80
	UDRL730-4R7N	4.7±30%	100KHz/0.3V	0.310	2.40
	UDRL730-100M	10±20%	100KHz/0.3V	0.650	1.70
	UDRL730-150M	15±20%	100KHz/0.3V	0.084	1.40
	UDRL730-180M	18±20%	100KHz/0.3V	0.095	1.32
	UDRL730-220M	22±20%	100KHz/0.3V	0.128	1.20
	UDRL730-330M	33±20%	100KHz/0.3V	0.165	0.97
	UDRL730-470M	47±20%	100KHz/0.3V	0.238	0.80
	UDRL730-560M	56±20%	100KHz/0.3V	0.277	0.73
	UDRL730-680M	68±20%	100KHz/0.3V	0.304	0.65
	UDRL730-820M	82±20%	100KHz/0.3V	0.390	0.60
	UDRL730-101M	100±20%	100KHz/0.3V	0.535	0.54
	UDRL730-121M	120±20%	100KHz/0.3V	0.750	0.51
	UDRL730-151M	150±20%	100KHz/0.3V	0.950	0.47
	UDRL730-181M	180±20%	100KHz/0.3V	1.200	0.41
	UDRL730-221M	220±20%	100KHz/0.3V	1.500	0.37
	UDRL730-271M	270±20%	100KHz/0.3V	1.700	0.33
	UDRL730-331M	330±20%	100KHz/0.3V	2.150	0.28
	UDRL730-471M	470±20%	100KHz/0.3V	3.150	0.21
	UDRL730-681M	680±20%	100KHz/0.3V	5.150	0.20

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 35% or the temperature rise by 40℃ ,which is lower.

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL740	UDRL740-3R3N	3.3±30%	100KHz/0.3V	0.020	3.50
	UDRL740-6R8N	6.8±30%	100KHz/0.3V	0.029	2.40
	UDRL740-100M	10±20%	100KHz/0.3V	0.038	2.00
	UDRL740-120M	12±20%	100KHz/0.3V	0.053	1.70
	UDRL740-150M	15±20%	100KHz/0.3V	0.057	1.60
	UDRL740-180M	18±20%	100KHz/0.3V	0.092	1.50
	UDRL740-220M	22±20%	100KHz/0.3V	0.096	1.30
	UDRL740-270M	27±21%	100KHz/0.3V	0.109	1.20
	UDRL740-330M	33±20%	100KHz/0.3V	0.124	1.10
	UDRL740-390M	39±21%	100KHz/0.3V	0.138	1.00
	UDRL740-470M	47±20%	100KHz/0.3V	0.155	0.95
	UDRL740-560M	56±20%	100KHz/0.3V	0.202	0.85
	UDRL740-680M	68±20%	100KHz/0.3V	0.234	0.75
	UDRL740-820M	82±20%	100KHz/0.3V	0.324	0.70
	UDRL740-101M	100±20%	100KHz/0.3V	0.358	0.65
	UDRL740-121M	120±20%	100KHz/0.3V	0.470	0.59
	UDRL740-151M	150±20%	100KHz/0.3V	0.580	0.54
	UDRL740-181M	180±20%	100KHz/0.3V	0.690	0.49
	UDRL740-221M	220±20%	100KHz/0.3V	0.890	0.43
	UDRL740-271M	270±20%	100KHz/0.3V	1.290	0.40
	UDRL740-331M	330±20%	100KHz/0.3V	1.700	0.37
	UDRL740-391M	390±20%	100KHz/0.3V	1.750	0.34
	UDRL740-471M	470±20%	100KHz/0.3V	2.200	0.32
	UDRL740-561M	560±20%	100KHz/0.3V	2.850	0.29

NOTES:

1.All data tested at 20℃

2.Rated current:The DC current at which causes the inductance decrease by 35% or the temperature rise by 40℃ ,which is lower.

3.Operating temperature：-25℃ to +105℃

U&T ELECTRONICS, INC.

UDRLR SERIES

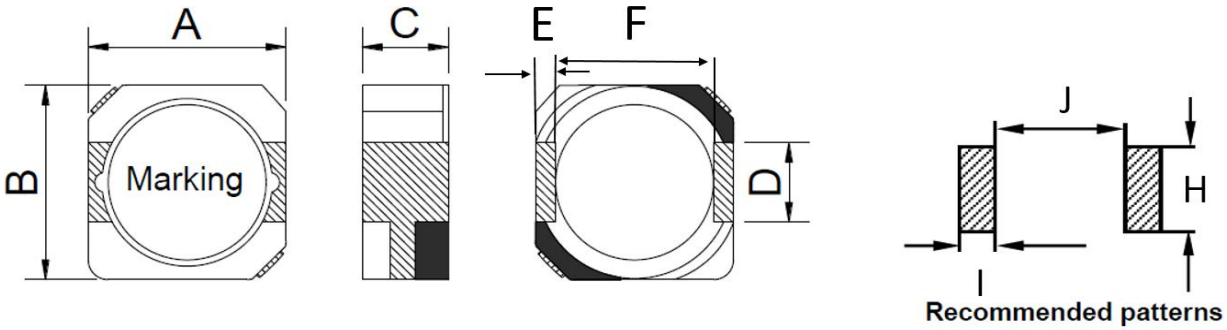
Product Description

Available in magnetically shielded
High power and high satruation current
Suitable for surface mounting
Except the standard versions of inductors here,
custom inductors are available to meet your exact requirement

Applications

Used in mobilephone, PDA, LCD, Notebook, portable DVD, etc as DC-DC Converter inductors.

Shapes and Dimensions (mm)



Part No.	A	B	C	D	E	F	H	I	J
UDRL103R	10.5 MAX	10.4 MAX	3.0 MAX	3.0	1.2	4.7	3.6	1.7	7.3
UDRL104R	10.5 MAX	10.4 MAX	4.0 MAX	3.0	1.2	4.7	3.6	1.7	7.3
UDRL105R	10.5 MAX	10.4 MAX	5.2 MAX	3.0	1.2	4.7	3.6	1.7	7.3

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL103R	UDRL103R-1R5N	1.5±30%	100KHz/0.3V	0.020	5.80
	UDRL103R-2R2N	2.2±30%	100KHz/0.3V	0.025	5.10
	UDRL103R-3R3N	3.3±30%	100KHz/0.3V	0.028	4.70
	UDRL103R-4R7N	4.7±30%	100KHz/0.3V	0.030	4.00
	UDRL103R-6R8N	6.8±30%	100KHz/0.3V	0.035	3.60
	UDRL103R-100M	10±20%	100KHz/0.3V	0.059	2.80
	UDRL103R-150M	15±20%	100KHz/0.3V	0.091	2.05
	UDRL103R-220M	22±20%	100KHz/0.3V	0.143	1.60
	UDRL103R-330M	33±20%	100KHz/0.3V	0.202	1.35
	UDRL103R-470M	47±20%	100KHz/0.3V	0.299	1.20
	UDRL103R-560M	56±20%	100KHz/0.3V	0.325	1.15
	UDRL103R-680M	68±20%	100KHz/0.3V	0.429	0.95
	UDRL103R-820M	82±20%	100KHz/0.3V	0.494	0.80
	UDRL103R-101M	100±20%	100KHz/0.3V	0.683	0.70
	UDRL103R-121M	120±20%	100KHz/0.3V	0.754	0.65

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL104R	UDRL104R-1R5N	1.5±30%	100KHz/0.3V	0.008	6.50
	UDRL104R-2R5N	2.5±30%	100KHz/0.3V	0.010	6.10
	UDRL104R-3R3N	3.3±30%	100KHz/0.3V	0.140	5.50
	UDRL104R-3R8N	3.8±30%	100KHz/0.3V	0.130	5.50
	UDRL104R-4R7N	4.7±30%	100KHz/0.3V	0.022	5.40
	UDRL104R-5R2N	5.2±30%	100KHz/0.3V	0.022	5.40
	UDRL104R-7R0N	7.0±30%	100KHz/0.3V	0.027	4.50
	UDRL104R-100M	10±20%	100KHz/0.3V	0.035	3.80
	UDRL104R-120M	12±20%	100KHz/0.3V	0.046	3.40
	UDRL104R-150M	15±20%	100KHz/0.3V	0.050	3.10
	UDRL104R-180M	18±20%	100KHz/0.3V	0.070	2.60
	UDRL104R-220M	22±20%	100KHz/0.3V	0.073	2.50
	UDRL104R-330M	33±20%	100KHz/0.3V	0.093	2.20
	UDRL104R-470M	47±20%	100KHz/0.3V	0.128	1.90
	UDRL104R-680M	68±20%	100KHz/0.3V	0.213	1.42
	UDRL104R-820M	82±22%	100KHz/0.3V	0.283	1.30
	UDRL104R-101M	100±20%	100KHz/0.3V	0.304	1.25
	UDRL104R-121M	120±20%	100KHz/0.3V	0.375	1.08
	UDRL104R-151M	150±20%	100KHz/0.3V	0.506	0.85
	UDRL104R-181M	180±20%	100KHz/0.3V	0.568	0.75
	UDRL104R-221M	220±20%	100KHz/0.3V	0.756	0.70
	UDRL104R-331M	330±20%	100KHz/0.3V	1.090	0.52

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRL105R	UDRL105R-1R5N	1.5±30%	100KHz/0.3V	0.006	8.30
	UDRL105R-2R2N	2.2±30%	100KHz/0.3V	0.007	7.50
	UDRL105R-3R3N	3.3±30%	100KHz/0.3V	0.010	6.50
	UDRL105R-4R7N	4.7±30%	100KHz/0.3V	0.012	6.10
	UDRL105R-6R8N	6.8±30%	100KHz/0.3V	0.018	5.40
	UDRL105R-100M	10±20%	100KHz/0.3V	0.026	4.45
	UDRL105R-120M	12±20%	100KHz/0.3V	0.033	3.80
	UDRL105R-150M	15±20%	100KHz/0.3V	0.041	3.40
	UDRL105R-180M	18±20%	100KHz/0.3V	0.046	3.10
	UDRL105R-220M	22±20%	100KHz/0.3V	0.061	2.90
	UDRL105R-330M	33±20%	100KHz/0.3V	0.084	2.40
	UDRL105R-470M	47±20%	100KHz/0.3V	0.130	2.00
	UDRL105R-560M	47±20%	100KHz/0.3V	0.149	1.90
	UDRL105R-680M	68±20%	100KHz/0.3V	0.201	1.60
	UDRL105R-820M	82±20%	100KHz/0.3V	0.227	1.45
	UDRL105R-101M	100±20%	100KHz/0.3V	0.253	1.35
	UDRL105R-121M	120±20%	100KHz/0.3V	0.303	1.18
	UDRL105R-151M	150±20%	100KHz/0.3V	0.370	1.10
	UDRL105R-181M	180±20%	100KHz/0.3V	0.419	1.00
	UDRL105R-221M	220±20%	100KHz/0.3V	0.500	0.94
	UDRL105R-331M	330±20%	100KHz/0.3V	0.812	0.73
	UDRL105R-471M	470±20%	100KHz/0.3V	1.290	0.54
	UDRL105R-561M	560±20%	100KHz/0.3V	1.430	0.52
	UDRL105R-681M	680±20%	100KHz/0.3V	1.600	0.51
	UDRL105R-821M	820±20%	100KHz/0.3V	1.770	0.48

NOTES:

1.All data tested at 20℃

2.Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.

3.Operating temperature：-25℃ to +105℃

U&T ELECTRONICS, INC.

UDRQ SERIES

Product Description

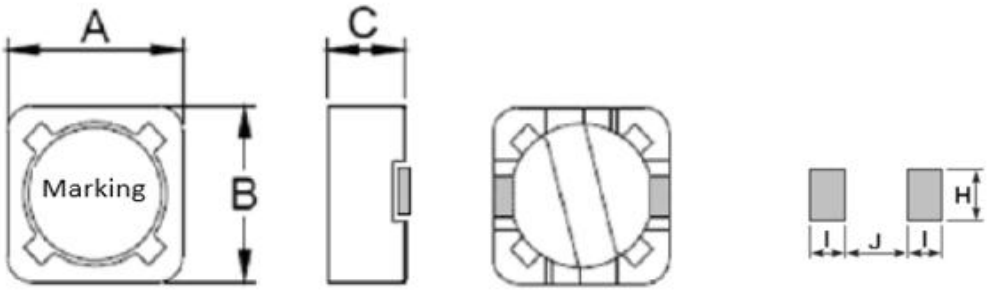
Available in magnetically shielded
High power and high satruation current
Suitable for surface mounting
Except the standard versions of inductors here,
custom inductors are available to meet your exact requirement.

Applications

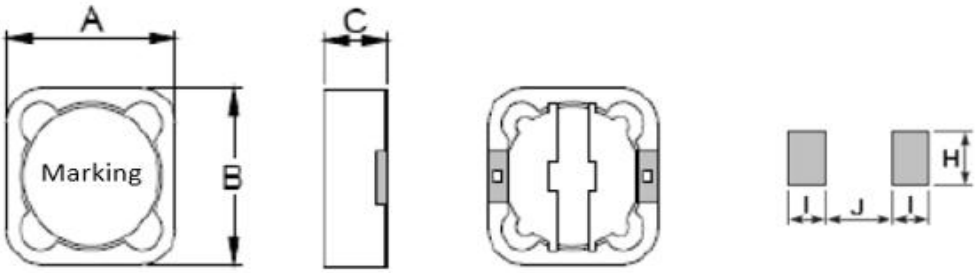
Used in LCD, Notebook, portable DVD, Portable communicaiton, etc as DC-DC Converter inductors.

Shapes and Dimensions(mm)

UDRQ73 UDRQ74



UDRQ124 UDRQ125 UDRQ127



Part No.	A	B	C	H	I	J
UDRQ73	7.8 MAX	7.8 MAX	4.0 MAX	2.2	1.6	4.8
UDRQ74	7.8 MAX	7.8 MAX	5.0 MAX	2.2	1.6	4.8
UDRQ124	12.5 MAX	12.5 MAX	5.0 MAX	5.4	2.9	7.0
UDRQ125	12.5 MAX	12.5 MAX	6.0 MAX	5.4	2.9	7.0
UDRQ127	12.5 MAX	12.5 MAX	8.0 MAX	5.4	2.9	7.0

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRQ73	UDRQ73-2R2N	2.2±30%	100KHz/0.3V	0.025	5.52
	UDRQ73-3R3N	3.3±30%	100KHz/0.3V	0.035	4.22
	UDRQ73-4R7N	4.7±30%	100KHz/0.3V	0.031	3.00
	UDRQ73-100M	10±20%	100KHz/0.3V	0.072	1.68
	UDRQ73-120M	12±20%	100KHz/0.3V	0.098	1.52
	UDRQ73-150M	15±20%	100KHz/0.3V	0.130	1.33
	UDRQ73-180M	18±20%	100KHz/0.3V	0.014	1.20
	UDRQ73-220M	22±20%	100KHz/0.3V	0.190	1.07
	UDRQ73-270M	27±20%	100KHz/0.4V	0.210	0.96
	UDRQ73-330M	33±20%	100KHz/0.3V	0.240	0.91
	UDRQ73-390M	39±20%	100KHz/0.4V	0.320	0.77
	UDRQ73-470M	47±20%	100KHz/0.3V	0.360	0.76
	UDRQ73-560M	56±20%	100KHz/0.3V	0.470	0.68
	UDRQ73-680M	68±20%	100KHz/0.3V	0.520	0.61
	UDRQ73-820M	82±20%	100KHz/0.3V	0.690	0.57
	UDRQ73-101M	100±20%	100KHz/0.3V	0.790	0.50
	UDRQ73-121M	120±20%	100KHz/0.3V	0.890	0.49
	UDRQ73-151M	150±20%	100KHz/0.3V	1.270	0.43
	UDRQ73-181M	180±20%	100KHz/0.3V	1.450	0.39
	UDRQ73-221M	220±20%	100KHz/0.3V	1.650	0.35
	UDRQ73-271M	270±20%	100KHz/0.4V	2.310	0.32
	UDRQ73-331M	330±20%	100KHz/0.3V	2.620	0.28
	UDRQ73-391M	390±20%	100KHz/0.4V	2.950	0.26
	UDRQ73-471M	470±20%	100KHz/0.3V	4.180	0.24
	UDRQ73-561M	560±20%	100KHz/0.3V	4.670	0.22
	UDRQ73-681M	680±20%	100KHz/0.3V	5.730	0.19
	UDRQ73-821M	820±20%	100KHz/0.3V	6.540	0.18
	UDRQ73-102M	1000±20%	100KHz/0.4V	9.440	0.16

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 25% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRQ74	UDRQ74-100M	10±20%	100KHz/0.3V	0.490	1.84
	UDRQ74-120M	12±20%	100KHz/0.3V	0.058	1.71
	UDRQ74-150M	15±20%	100KHz/0.3V	0.081	1.47
	UDRQ74-180M	18±20%	100KHz/0.3V	0.091	1.31
	UDRQ74-220M	22±20%	100KHz/0.3V	0.110	1.23
	UDRQ74-270M	27±20%	100KHz/0.3V	0.150	1.12
	UDRQ74-330M	33±20%	100KHz/0.3V	0.170	0.96
	UDRQ74-390M	39±20%	100KHz/0.3V	0.230	0.91
	UDRQ74-470M	47±20%	100KHz/0.3V	0.260	0.88
	UDRQ74-560M	56±20%	100KHz/0.3V	0.350	0.75
	UDRQ74-680M	68±20%	100KHz/0.3V	0.380	0.69
	UDRQ74-820M	82±20%	100KHz/0.3V	0.430	0.61
	UDRQ74-101M	100±20%	100KHz/0.3V	0.610	0.60
	UDRQ74-121M	120±20%	100KHz/0.3V	0.660	0.52
	UDRQ74-151M	150±20%	100KHz/0.3V	0.880	0.46
	UDRQ74-181M	180±20%	100KHz/0.3V	0.980	0.42
	UDRQ74-221M	220±20%	100KHz/0.3V	1.170	0.36
	UDRQ74-271M	270±20%	100KHz/0.3V	1.640	0.34
	UDRQ74-331M	330±20%	100KHz/0.3V	1.860	0.32
	UDRQ74-391M	390±20%	100KHz/0.3V	2.850	0.29
	UDRQ74-471M	470±20%	100KHz/0.3V	3.010	0.26
	UDRQ74-561M	560±20%	100KHz/0.3V	3.620	0.23
	UDRQ74-681M	680±20%	100KHz/0.3V	4.630	0.22
	UDRQ74-821M	820±20%	100KHz/0.3V	5.200	0.20
	UDRQ74-102M	1000±20%	100KHz/0.3V	6.000	0.18

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 25% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRQ124	UDRQ124-1R0N	1.0±30%	100KHz/0.3V	0.010	8.00
	UDRQ124-2R2N	2.2±30%	100KHz/0.3V	0.014	4.90
	UDRQ124-3R3N	3.3±30%	100KHz/0.3V	0.015	4.50
	UDRQ124-4R7N	4.7±30%	100KHz/0.3V	0.018	5.70
	UDRQ124-5R6N	5.6±30%	100KHz/0.3V	0.020	5.20
	UDRQ124-6R8N	6.8±30%	100KHz/0.3V	0.023	4.90
	UDRQ124-8R2N	8.2±30%	100KHz/0.3V	0.026	4.60
	UDRQ124-100M	10±20%	100KHz/0.3V	0.028	4.50
	UDRQ124-120M	12±20%	100KHz/0.3V	0.038	4.00
	UDRQ124-150M	15±20%	100KHz/0.3V	0.050	3.20
	UDRQ124-180M	18±20%	100KHz/0.3V	0.057	3.10
	UDRQ124-220M	22±20%	100KHz/0.3V	0.066	2.90
	UDRQ124-270M	27±20%	100KHz/0.3V	0.080	2.80
	UDRQ124-330M	33±20%	100KHz/0.3V	0.097	2.70
	UDRQ124-390M	39±20%	100KHz/0.3V	0.132	2.10
	UDRQ124-470M	47±20%	100KHz/0.3V	0.160	1.90
	UDRQ124-560M	56±20%	100KHz/0.3V	0.190	1.80
	UDRQ124-680M	68±20%	100KHz/0.3V	0.220	1.50
	UDRQ124-820M	82±20%	100KHz/0.3V	0.260	1.30
	UDRQ124-101M	100±20%	100KHz/0.3V	0.310	1.20
	UDRQ124-121M	120±20%	100KHz/0.3V	0.380	1.10
	UDRQ124-151M	150±20%	100KHz/0.3V	0.530	0.95
	UDRQ124-181M	180±20%	100KHz/0.3V	0.620	0.85
	UDRQ124-221M	220±20%	100KHz/0.3V	0.700	0.80
	UDRQ124-271M	270±20%	100KHz/0.3V	0.870	0.60
	UDRQ124-331M	330±21%	100KHz/0.3V	0.990	0.50

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 25% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRQ125	UDRQ125-1R0N	1.0±30%	100KHz/0.3V	0.010	8.00
	UDRQ125-2R2N	2.2±30%	100KHz/0.3V	0.014	7.80
	UDRQ125-3R3N	3.3±30%	100KHz/0.3V	0.015	8.00
	UDRQ125-8R2N	8.2±30%	100KHz/0.3V	0.021	4.40
	UDRQ125-100M	10±20%	100KHz/0.3V	0.025	4.00
	UDRQ125-120M	12±20%	100KHz/0.3V	0.027	3.50
	UDRQ125-150M	15±20%	100KHz/0.3V	0.030	3.30
	UDRQ125-180M	18±20%	100KHz/0.3V	0.034	3.00
	UDRQ125-220M	22±20%	100KHz/0.3V	0.036	2.80
	UDRQ125-270M	27±20%	100KHz/0.3V	0.051	2.30
	UDRQ125-330M	33±20%	100KHz/0.3V	0.057	2.10
	UDRQ125-390M	39±20%	100KHz/0.3V	0.068	2.00
	UDRQ125-470M	47±20%	100KHz/0.3V	0.075	1.80
	UDRQ125-560M	56±20%	100KHz/0.3V	0.110	1.70
	UDRQ125-680M	68±20%	100KHz/0.3V	0.120	1.50
	UDRQ125-820M	82±20%	100KHz/0.3V	0.140	1.40
	UDRQ125-101M	100±20%	100KHz/0.3V	0.160	1.30
	UDRQ125-121M	120±20%	100KHz/0.3V	0.170	1.10
	UDRQ125-151M	150±20%	100KHz/0.3V	0.230	1.00
	UDRQ125-181M	180±20%	100KHz/0.3V	0.290	0.90
	UDRQ125-221M	220±20%	100KHz/0.3V	0.400	0.80
	UDRQ125-271M	270±20%	100KHz/0.3V	0.460	0.75
	UDRQ125-331M	330±21%	100KHz/0.3V	0.510	0.68
	UDRQ125-391M	390±22%	100KHz/0.3V	0.690	0.65
	UDRQ125-471M	470±23%	100KHz/0.3V	0.770	0.58
	UDRQ125-561M	560±24%	100KHz/0.3V	0.860	0.54
	UDRQ125-681M	680±25%	100KHz/0.3V	1.200	0.48

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 25% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
	UDRQ127-2R2N	2.2±30%	100KHz/0.3V	0.012	8.00
	UDRQ127-2R7N	2.7±30%	100KHz/0.3V	0.013	8.00
	UDRQ127-3R3N	3.3±30%	100KHz/0.3V	0.013	8.00
	UDRQ127-3R9N	3.9±30%	100KHz/0.3V	0.013	7.50
	UDRQ127-4R7N	4.7±30%	100KHz/0.3V	0.016	6.80
	UDRQ127-6R8N	6.8±30%	100KHz/0.3V	0.019	6.60
	UDRQ127-8R2N	8.2±30%	100KHz/0.3V	0.020	5.60
	UDRQ127-100M	10±20%	100KHz/0.3V	0.021	5.40
	UDRQ127-120M	12±20%	100KHz/0.3V	0.024	4.90
	UDRQ127-150M	15±20%	100KHz/0.3V	0.027	4.50
	UDRQ127-180M	18±20%	100KHz/0.3V	0.039	3.90
	UDRQ127-220M	22±20%	100KHz/0.3V	0.043	3.60
	UDRQ127-270M	27±20%	100KHz/0.3V	0.046	3.40
	UDRQ127-330M	33±20%	100KHz/0.3V	0.065	3.00
	UDRQ127-390M	39±20%	100KHz/0.3V	0.073	2.75
	UDRQ127-470M	47±20%	100KHz/0.3V	0.100	2.50
	UDRQ127-560M	56±20%	100KHz/0.3V	0.110	2.35
	UDRQ127-680M	68±20%	100KHz/0.3V	0.140	2.10
	UDRQ127-820M	82±20%	100KHz/0.3V	0.160	1.95
	UDRQ127-101M	100±20%	100KHz/0.3V	0.220	1.70
	UDRQ127-121M	120±20%	100KHz/0.3V	0.250	1.60
	UDRQ127-151M	150±20%	100KHz/0.3V	0.280	1.42
	UDRQ127-181M	180±20%	100KHz/0.3V	0.350	1.30
	UDRQ127-221M	220±20%	100KHz/0.3V	0.390	1.16
	UDRQ127-271M	270±20%	100KHz/0.3V	0.560	1.06
	UDRQ127-331M	330±21%	100KHz/0.3V	0.640	0.95
	UDRQ127-391M	390±22%	100KHz/0.3V	0.700	0.88
	UDRQ127-471M	470±23%	100KHz/0.3V	0.980	0.79
	UDRQ127-561M	560±24%	100KHz/0.3V	1.070	0.73
	UDRQ127-681M	680±25%	100KHz/0.3V	1.460	0.67

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 25% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

UDRS SERIES

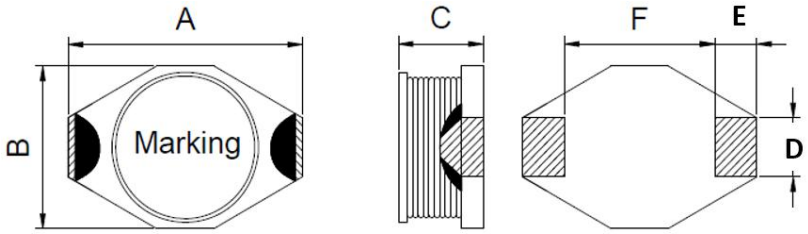
Product Description

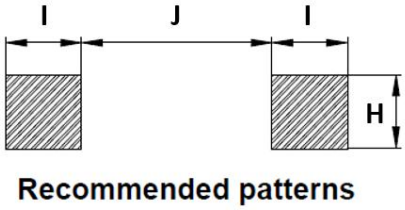
High power, High satruation current and Low resistance
Suitable for surface mounting
Except the standard versions of inductors here,
custom inductors are available to meet your exact requirement

Applications

Used in LCD,Notebook,Communication equipment,etc as Power supply chock.

Shapes and Dimensions(mm)





Recommended patterns

Part No.	A	B	C	D	E	F	H	I	J
UDRS85	12.95 MAX	9.4 MAX	5.2 MAX	2.54	2.54	7.62	2.79	2.92	7.37
UDRS811	12.95 MAX	9.4 MAX	11.5 MAX	2.54	2.54	7.62	2.79	2.92	7.37
UDRS138	18.54 MAX	15.24 MAX	7.11 MAX	2.54	2.54	12.7	2.79	2.92	12.45

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRS85	UDRS85-1R0M	1.0±20%	100KHz/0.3V	0.010	6.8
	UDRS85-1R5M	1.5±20%	100KHz/0.3V	0.012	6.4
	UDRS85-2R2M	2.2±20%	100KHz/0.3V	0.015	6.1
	UDRS85-3R3M	3.3±20%	100KHz/0.3V	0.018	5.4
	UDRS85-4R7M	4.7±20%	100KHz/0.3V	0.033	4.8
	UDRS85-6R8M	6.8±20%	100KHz/0.3V	0.044	4.4
	UDRS85-100M	10±20%	100KHz/0.3V	0.050	3.8
	UDRS85-150M	15±20%	100KHz/0.3V	0.055	3.0
	UDRS85-220M	22±20%	100KHz/0.3V	0.114	2.6
	UDRS85-330M	33±20%	100KHz/0.3V	0.120	2.0
	UDRS85-470M	47±20%	100KHz/0.3V	0.168	1.6
	UDRS85-680M	68±20%	100KHz/0.3V	0.240	1.4
	UDRS85-101M	100±20%	100KHz/0.3V	0.380	1.2
	UDRS85-151M	150±20%	100KHz/0.3V	0.570	1.0
	UDRS85-221M	220±20%	100KHz/0.3V	0.840	0.8
	UDRS85-331M	330±20%	100KHz/0.3V	1.020	0.6
	UDRS85-471M	470±20%	100KHz/0.3V	1.460	0.5
	UDRS85-681M	680±20%	100KHz/0.3V	2.170	0.4
	UDRS85-102M	1000±20%	100KHz/0.3V	3.300	0.3

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRS811	UDRS811-100M	10±20%	100KHz/0.3V	0.04	3.5
	UDRS811-150M	15±20%	100KHz/0.3V	0.05	3.0
	UDRS811-220M	22±20%	100KHz/0.3V	0.08	2.5
	UDRS811-330M	33±20%	100KHz/0.3V	0.10	2.0
	UDRS811-470M	47±20%	100KHz/0.3V	0.12	1.6
	UDRS811-680M	68±20%	100KHz/0.3V	0.19	1.2
	UDRS811-101M	100±20%	100KHz/0.3V	0.25	1.2
	UDRS811-151M	150±20%	100KHz/0.3V	0.34	0.9
	UDRS811-221M	220±20%	100KHz/0.3V	0.44	0.7
	UDRS811-331M	330±20%	100KHz/0.3V	0.70	0.6
	UDRS811-471M	470±20%	100KHz/0.3V	0.96	0.3
	UDRS811-681M	680±20%	100KHz/0.3V	1.20	0.2
	UDRS811-102M	1000±20%	100KHz/0.3V	2.00	0.1

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature：-25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRS138	UDRS138-1R0M	1.0±20%	100KHz/0.3V	0.009	8.60
	UDRS138-2R2M	2.2±20%	100KHz/0.3V	0.014	7.10
	UDRS138-3R3M	3.3±20%	100KHz/0.3V	0.018	6.20
	UDRS138-5R6M	5.6±20%	100KHz/0.3V	0.020	5.30
	UDRS138-100M	10±20%	100KHz/0.3V	0.031	4.30
	UDRS138-150M	15±20%	100KHz/0.3V	0.036	4.00
	UDRS138-220M	22±20%	100KHz/0.3V	0.047	3.50
	UDRS138-330M	33±20%	100KHz/0.3V	0.066	3.00
	UDRS138-470M	47±20%	100KHz/0.3V	0.086	2.60
	UDRS138-680M	68±20%	100KHz/0.3V	0.130	2.30
	UDRS138-101M	100±20%	100KHz/0.3V	0.190	1.80
	UDRS138-151M	150±20%	100KHz/0.3V	0.250	1.50
	UDRS138-221M	220±20%	100KHz/0.3V	0.380	1.20
	UDRS138-331M	330±20%	100KHz/0.3V	0.560	1.00
	UDRS138-471M	470±20%	100KHz/0.3V	0.850	0.82
	UDRS138-681M	680±20%	100KHz/0.3V	1.100	0.72
	UDRS138-102M	1000±20%	100KHz/0.3V	1.800	0.56

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 10% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

UDRW SERIES

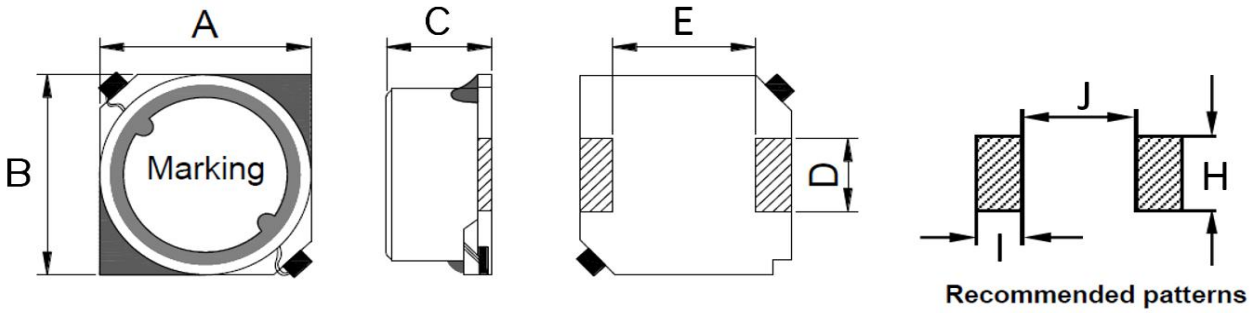
Product Description

Available in magnetically shielded
High power and high satruation current
Suitable for surface mounting
Except the standard versions of inductors here,
custom inductors are available to meet your exact requirement

Applications

Used in PC, HDD, LCD, Notebook, VCR Camera, etc as DC-DC Converter inductors.

Shapes and Dimensions(mm)



Part No.	A	B	C	D	E	H	I	J
UDRW730	7±0.2	7±0.2	3.0±0.2	2.0	4.9	2.2	1.5	4.9
UDRW732	7±0.2	7±0.2	3.2±0.2	2.0	4.9	2.2	1.5	4.9
UDRW745	7±0.2	7±0.2	4.5±0.3	2.0	4.9	2.2	1.5	4.9
UDRW1045	10.1±0.3	10.1±0.3	4.5±0.3	3.0	6.0	3.2	2.5	5.6
UDRW1255	12.5±0.3	12.5±0.3	5.5±0.35	3.0	8.6	3.2	2.5	8.6
UDRW1265	12.5±0.3	12.5±0.3	6.5±0.35	3.0	8.6	3.2	2.5	8.6
UDRW1275	12.5±0.3	12.5±0.3	7.6±0.35	3.0	8.6	3.2	2.5	8.6

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRW730	UDRW730-3R3N	3.3±30%	100KHz/0.3V	0.028	1.80
	UDRW730-4R7N	4.7±30%	100KHz/0.3V	0.044	1.60
	UDRW730-6R8N	6.8±30%	100KHz/0.3V	0.050	1.50
	UDRW730-100M	10±20%	100KHz/0.3V	0.064	1.30
	UDRW730-150M	15±20%	100KHz/0.3V	0.110	1.00
	UDRW730-220M	22±20%	100KHz/0.3V	0.132	0.86
	UDRW730-330M	33±20%	100KHz/0.3V	0.192	0.65
	UDRW730-470M	47±20%	100KHz/0.3V	0.288	0.57
	UDRW730-680M	68±20%	100KHz/0.3V	0.372	0.49
	UDRW730-101M	100±20%	100KHz/0.3V	0.540	0.35

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRW732	UDRW732-3R3N	3.3±30%	100KHz/0.3V	0.028	1.90
	UDRW732-4R7N	4.7±30%	100KHz/0.3V	0.044	1.70
	UDRW732-6R8N	6.8±30%	100KHz/0.3V	0.050	1.60
	UDRW732-100M	10±20%	100KHz/0.3V	0.064	1.40
	UDRW732-150M	15±20%	100KHz/0.3V	0.110	1.10
	UDRW732-220M	22±20%	100KHz/0.3V	0.132	0.96
	UDRW732-330M	33±20%	100KHz/0.3V	0.192	0.75
	UDRW732-470M	47±20%	100KHz/0.3V	0.288	0.67
	UDRW732-680M	68±20%	100KHz/0.3V	0.372	0.59
	UDRW732-101M	100±20%	100KHz/0.3V	0.540	0.45
	UDRW732-151M	150±20%	100KHz/0.3V	0.780	0.37
	UDRW732-221M	220±20%	100KHz/0.3V	1.260	0.29
	UDRW732-331M	330±20%	100KHz/0.3V	2.010	0.22
	UDRW732-471M	470±20%	100KHz/0.3V	2.460	0.20
	UDRW732-681M	680±20%	100KHz/0.3V	3.780	0.16
	UDRW732-102M	1000±20%	100KHz/0.3V	5.740	0.13

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRW745	UDRW745-3R3N	3.3±30%	100KHz/0.3V	0.034	2.20
	UDRW745-4R7N	4.7±30%	100KHz/0.3V	0.038	2.10
	UDRW745-6R8N	6.8±30%	100KHz/0.3V	0.047	1.90
	UDRW745-100M	10±20%	100KHz/0.3V	0.057	1.80
	UDRW745-150M	15±20%	100KHz/0.3V	0.082	1.46
	UDRW745-220M	22±20%	100KHz/0.3V	0.099	1.25
	UDRW745-330M	33±20%	100KHz/0.3V	0.144	1.10
	UDRW745-470M	47±20%	100KHz/0.3V	0.216	0.90
	UDRW745-680M	68±20%	100KHz/0.3V	0.324	0.75
	UDRW745-101M	100±20%	100KHz/0.3V	0.468	0.60
	UDRW745-151M	150±20%	100KHz/0.3V	0.660	0.50
	UDRW745-221M	220±20%	100KHz/0.3V	0.996	0.40
	UDRW745-331M	330±20%	100KHz/0.3V	1.380	0.35
	UDRW745-471M	470±20%	100KHz/0.3V	2.160	0.31

NOTES:
1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRW1045	UDRW1045-3R3N	3.3±30%	100KHz/0.3V	0.020	3.70
	UDRW1045-5R6N	5.6±30%	100KHz/0.3V	0.027	3.20
	UDRW1045-100M	10±20%	100KHz/0.3V	0.044	2.50
	UDRW1045-150M	15±20%	100KHz/0.3V	0.057	2.20
	UDRW1045-220M	22±20%	100KHz/0.3V	0.070	1.90
	UDRW1045-330M	33±20%	100KHz/0.3V	0.100	1.70
	UDRW1045-470M	47±20%	100KHz/0.3V	0.120	1.50
	UDRW1045-680M	68±20%	100KHz/0.3V	0.168	1.30
	UDRW1045-101M	100±20%	100KHz/0.3V	0.240	1.10
	UDRW1045-151M	150±20%	100KHz/0.3V	0.420	0.81
	UDRW1045-221M	220±20%	100KHz/0.3V	0.564	0.70
	UDRW1045-331M	330±20%	100KHz/0.3V	0.816	0.58
	UDRW1045-471M	470±20%	100KHz/0.3V	1.236	0.47
	UDRW1045-681M	680±20%	100KHz/0.3V	1.920	0.38
	UDRW1045-102M	1000±20%	100KHz/0.3V	3.360	0.29
	UDRW1045-122M	1200±20%	100KHz/0.3V	3.600	0.25
	UDRW1045-152M	1500±20%	100KHz/0.3V	4.080	0.22

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRW1255	UDRW1255-6R0N	6.0±30%	100KHz/0.3V	0.020	3.60
	UDRW1255-100M	10±20%	100KHz/0.3V	0.026	3.40
	UDRW1255-150M	15±20%	100KHz/0.3V	0.032	2.80
	UDRW1255-220M	22±20%	100KHz/0.3V	0.041	2.30
	UDRW1255-330M	33±20%	100KHz/0.3V	0.050	1.90
	UDRW1255-470M	47±20%	100KHz/0.3V	0.075	1.60
	UDRW1255-680M	68±20%	100KHz/0.3V	0.100	1.30
	UDRW1255-101M	100±20%	100KHz/0.3V	0.150	1.10
	UDRW1255-151M	150±20%	100KHz/0.3V	0.230	0.88
	UDRW1255-221M	220±20%	100KHz/0.3V	0.330	0.72
	UDRW1255-331M	330±20%	100KHz/0.3V	0.492	0.59
	UDRW1255-471M	470±20%	100KHz/0.3V	0.624	0.49
	UDRW1255-681M	680±20%	100KHz/0.3V	0.912	0.43
	UDRW1255-102M	1000±20%	100KHz/0.3V	1.344	0.34
	UDRW1255-152M	1500±20%	100KHz/0.3V	2.076	0.29

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

U&T ELECTRONICS, INC.

SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRW1265	UDRW1265-2R0N	2.0±30%	100KHz/0.3V	0.014	6.20
	UDRW1265-4R2N	4.2±30%	100KHz/0.3V	0.018	5.50
	UDRW1265-7R0N	7.0±30%	100KHz/0.3V	0.022	5.00
	UDRW1265-100M	10±20%	100KHz/0.3V	0.025	4.80
	UDRW1265-150M	15±20%	100KHz/0.3V	0.029	4.40
	UDRW1265-220M	22±20%	100KHz/0.3V	0.038	3.80
	UDRW1265-330M	33±20%	100KHz/0.3V	0.049	3.40
	UDRW1265-470M	47±20%	100KHz/0.3V	0.070	2.80
	UDRW1265-560M	56±20%	100KHz/0.3V	0.090	2.20
	UDRW1265-680M	68±20%	100KHz/0.3V	0.095	2.40
	UDRW1265-101M	100±20%	100KHz/0.3V	0.150	1.90
	UDRW1265-151M	150±20%	100KHz/0.3V	0.260	1.40
	UDRW1265-221M	220±20%	100KHz/0.3V	0.330	1.20
	UDRW1265-331M	330±20%	100KHz/0.3V	0.600	0.95

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

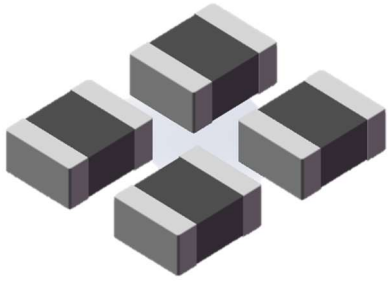
SERIES	PART NUMBER	INDUCTANCE (uH)@0A	TEST FREQUENCY	DCR(Ω) MAX	RATED CURRENT (A) MAX
UDRW1275	UDRW1275-5R6N	5.6±30%	100KHz/0.3V	0.014	6.30
	UDRW1275-6R8N	6.8±30%	100KHz/0.3V	0.016	5.90
	UDRW1275-100M	10±20%	100KHz/0.3V	0.019	5.40
	UDRW1275-150M	15±20%	100KHz/0.3V	0.023	5.00
	UDRW1275-220M	22±20%	100KHz/0.3V	0.032	4.00
	UDRW1275-330M	33±20%	100KHz/0.3V	0.048	3.20
	UDRW1275-470M	47±20%	100KHz/0.3V	0.064	2.70
	UDRW1275-680M	68±20%	100KHz/0.3V	0.094	2.00
	UDRW1275-101M	100±20%	100KHz/0.3V	0.150	1.90
	UDRW1275-151M	150±20%	100KHz/0.3V	0.210	1.50
	UDRW1275-221M	220±20%	100KHz/0.3V	0.310	1.30
	UDRW1275-331M	330±20%	100KHz/0.3V	0.410	1.00

NOTES:

1. All data tested at 20℃
2. Rated current:The DC current at which causes the inductance decrease by 30% or the temperature rise by 40℃ ,which is lower.
3. Operating temperature: -25℃ to +105℃

UCP 2016/2520/3225 SERIES

HIGH POWER INDUCTOR



Applications:

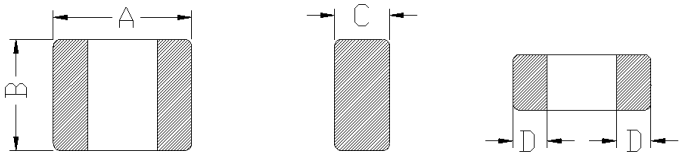
. DC/DC converter for CPU in Notebook PC

. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

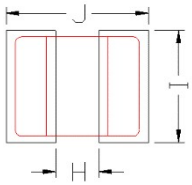
. Thin type on-board power supply module for exchanger

. VRM for server

Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	H	I	J
UCP201610	2.0±0.3	1.6±0.3	0.8±0.2	0.5±0.3	0.7	1.8	2.3
UCP201612	2.0±0.3	1.6±0.3	1.0±0.2	0.5±0.3	0.7	1.8	2.3
UCP252010	2.5±0.3	2.0±0.3	0.8±0.2	0.6±0.3	1.2	2.3	2.8
UCP252012	2.5±0.3	2.0±0.3	1.0±0.2	0.6±0.3	1.2	2.3	2.8
UCP322512	3.2±0.3	2.5±0.3	1.0±0.2	0.6±0.3	1.7	2.8	3.5
UCP322520	3.2±0.3	2.5±0.3	1.8±0.2	0.6±0.3	1.7	2.8	3.5

Features :

. High performance (I sat) realized by metal dust core.

. Low loss realized with low DCR

. Magnetically Shielded.

. RoHS compliant.

Product Identification:

UCP 201610 – 1R0 M

(1) (2) (3) (4)

(1) Series

(2) Dimensions :**201610** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △ T=40℃

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UCP201610 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCP201610-R47M	0.47	20	25	32	5.4	4.8	4.4	4.0
UCP201610-1R0M	1.0	20	54	65	3.8	3.6	3.2	2.8
UCP201610-1R5M	1.5	20	84	91	3.0	2.6	2.1	1.8
UCP201610-2R2M	2.2	20	125	140	2.8	2.4	1.9	1.6
UCP201610-3R3M	3.3	20	205	235	2.1	1.8	1.5	1.3

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

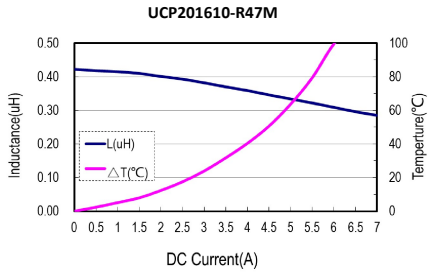
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

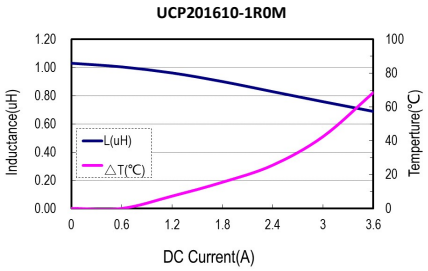
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

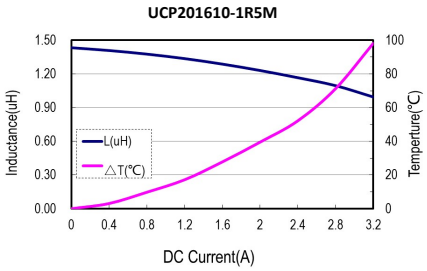
Note 4: Operating temperature range includes self-temperature rise.

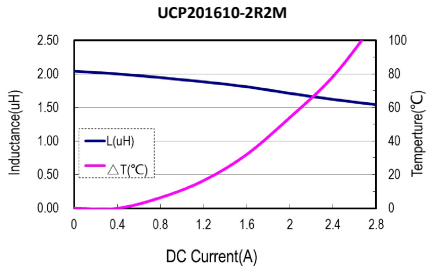
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

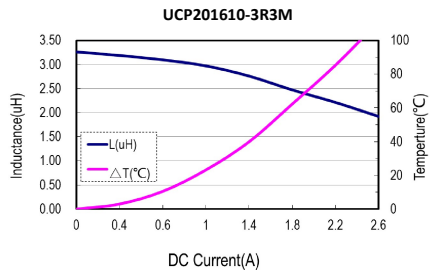
Typical performance curves :











● UCP201612 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCP201612-R47M	0.47	20	22	26	5.8	5.1	4.5	4.2
UCP201612-1R0M	1.0	20	41	48	4.0	3.5	3.2	2.8
UCP201612-1R5M	1.5	20	63	72	3.2	2.8	2.5	2.2
UCP201612-2R2M	2.2	20	95	116	2.8	2.4	1.9	1.6
UCP201612-3R3M	3.3	20	175	210	2.2	1.9	1.4	1.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

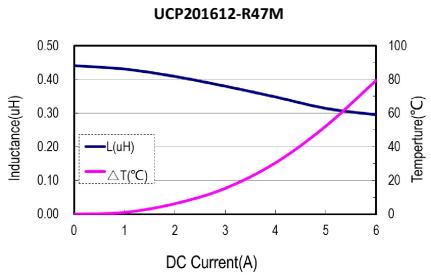
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

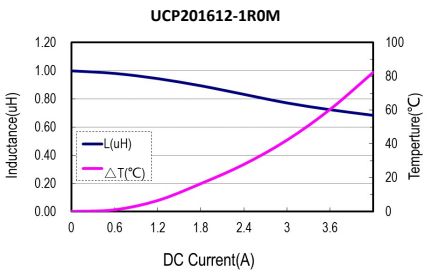
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

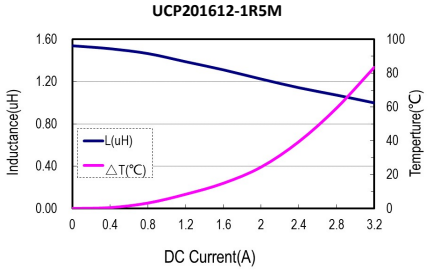
Note 4: Operating temperature range includes self-temperature rise.

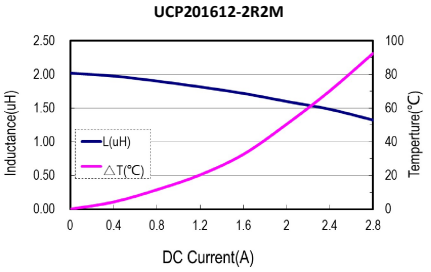
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

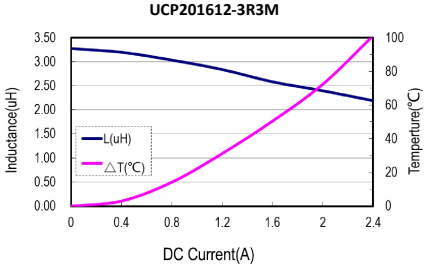
Typical performance curves :











● UCP252010 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCP252010-R47M	0.47	20	21	27	6.5	5.6	5.2	4.6
UCP252010-1R0M	1.0	20	38	48	4.7	4.3	4.2	4.0
UCP252010-1R5M	1.5	20	62	72	3.5	3.0	2.9	2.5
UCP252010-2R2M	2.2	20	82	97	3.1	2.6	2.3	2.1
UCP252010-3R3M	3.3	20	140	168	2.5	2.1	1.8	1.6
UCP252010-4R7M	4.7	20	215	240	2.2	1.8	1.6	1.4

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

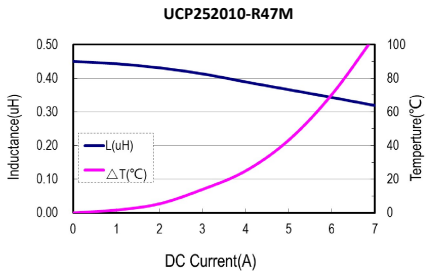
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

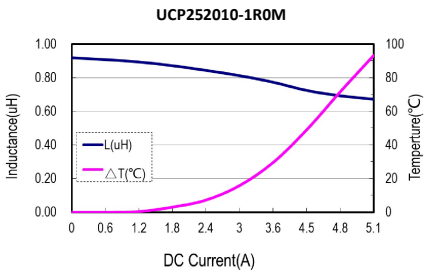
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

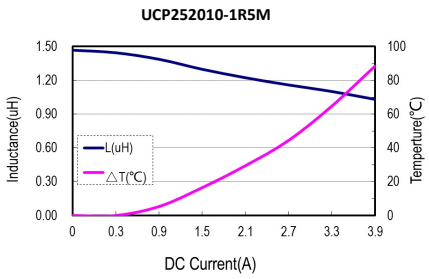
Note 4: Operating temperature range includes self-temperature rise.

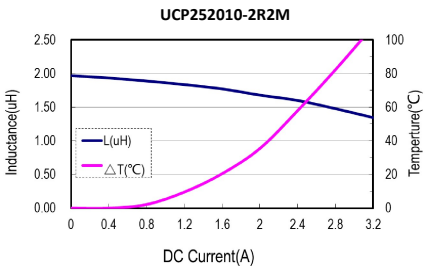
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

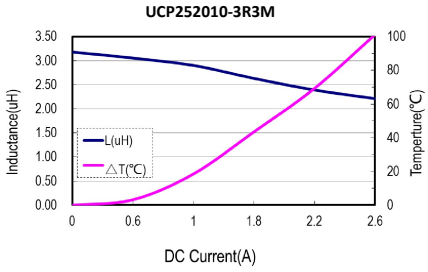
Typical performance curves :

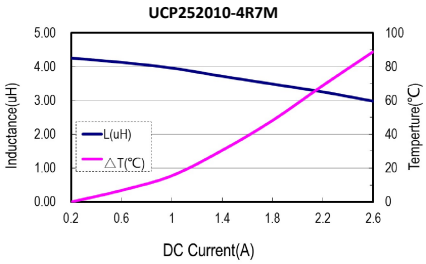












● UCP252012 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCP252012-R24M	0.24	20	11	15	9.0	8.0	7.2	6.8
UCP252012-R47M	0.47	20	18	22	7.8	7.0	5.0	4.6
UCP252012-1R0M	1.0	20	35	40	5.5	4.7	4.2	3.8
UCP252012-1R5M	1.5	20	51	58	4.2	3.6	3.3	3.0
UCP252012-2R2M	2.2	20	70	82	3.4	3.0	2.9	2.6
UCP252012-3R3M	3.3	20	120	135	2.8	2.3	2.0	1.6
UCP252012-4R7M	4.7	20	150	180	2.0	1.8	1.5	1.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

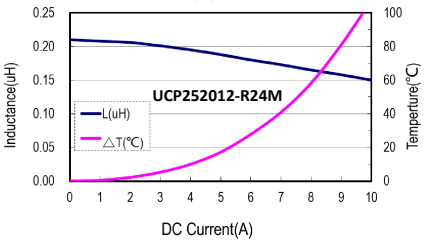
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

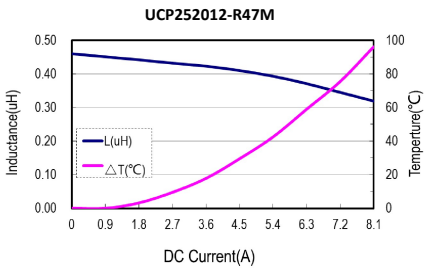
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

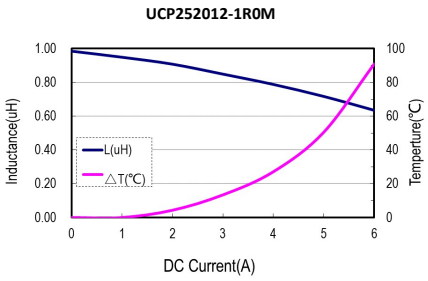
Note 4: Operating temperature range includes self-temperature rise.

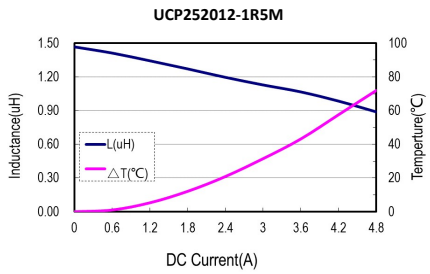
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

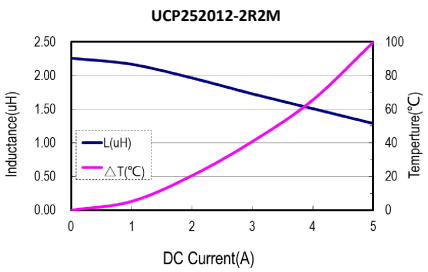
Typical performance curves :

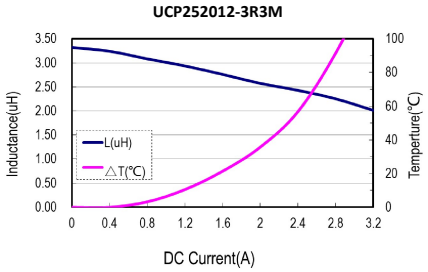


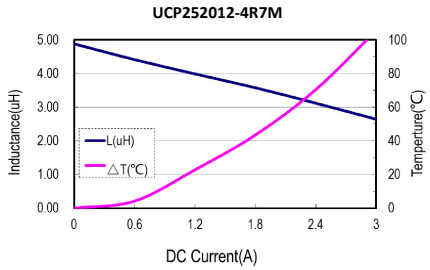












● UCP322512 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCP322512-R47M	0.47	20	17	22	9.0	8.0	5.8	5.2
UCP322512-1R0M	1.0	20	34	42	6.3	5.8	4.2	3.8
UCP322512-1R5M	1.5	20	40	48	4.8	4.2	3.7	3.2
UCP322512-2R2M	2.2	20	58	66	4.0	3.6	2.9	2.6
UCP322512-3R3M	3.3	20	96	108	3.0	2.6	2.2	2.0
UCP322512-4R7M	4.7	20	140	157	2.8	2.4	1.9	1.6
UCP322512-6R8M	6.8	20	220	276	2.2	1.9	1.5	1.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

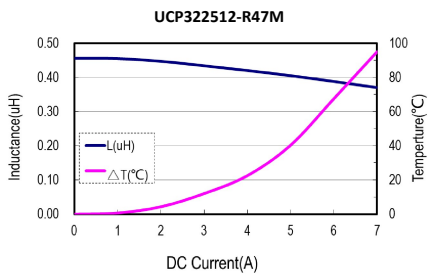
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

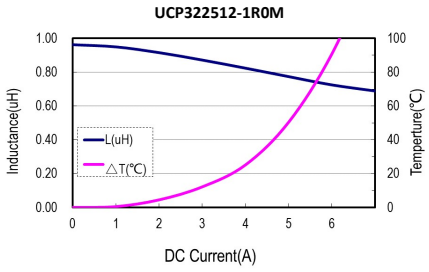
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

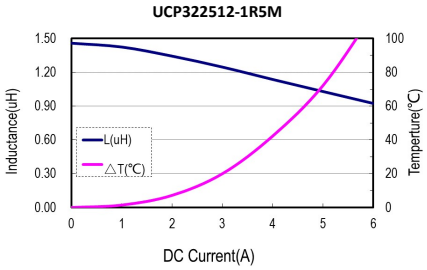
Note 4: Operating temperature range includes self-temperature rise.

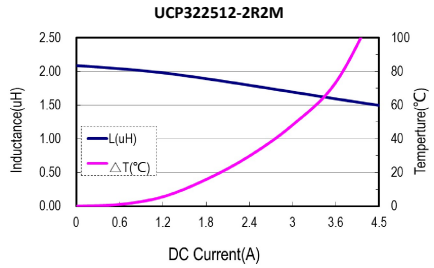
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

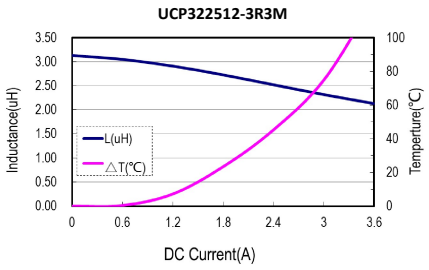
Typical performance curves :

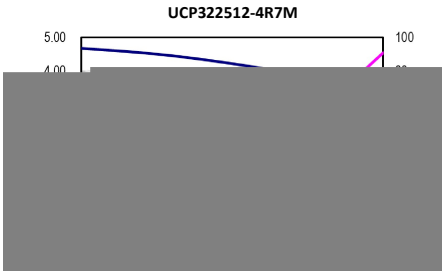


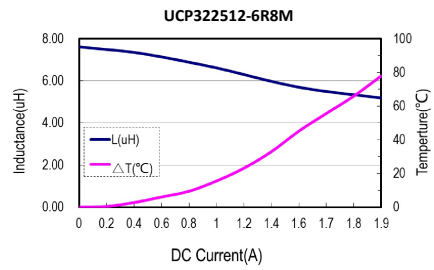












● UCP322520 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCP322520-1R0M	1.0	20	20	24	7.6	6.5	4.5	4.0
UCP322520-1R5M	1.5	20	30	35	6.0	5.2	3.5	3.1
UCP322520-2R2M	2.2	20	33	40	4.6	4.0	3.0	2.6
UCP322520-3R3M	3.3	20	50	65	4.2	3.6	2.4	2.1
UCP322520-4R7M	4.7	20	86	98	3.4	2.9	2.2	1.9

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

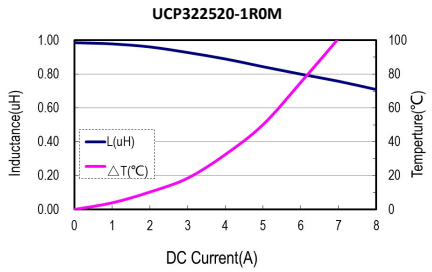
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

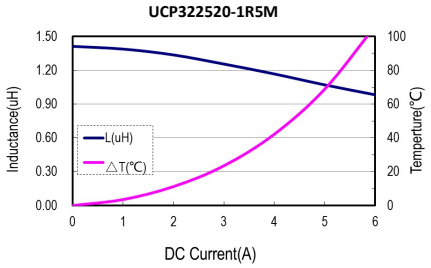
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

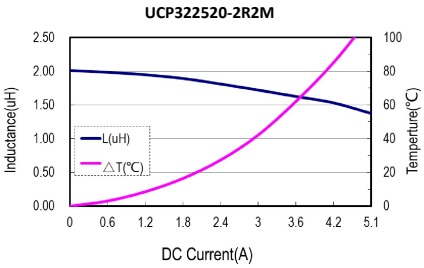
Note 4: Operating temperature range includes self-temperature rise.

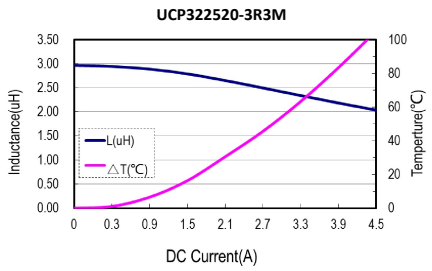
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

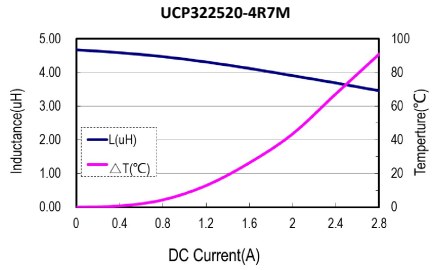
Typical performance curves :





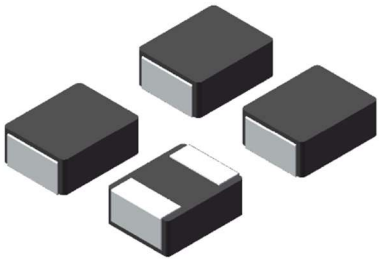






UCPL2520 SERIES

HIGH POWER INDUCTOR



Applications:

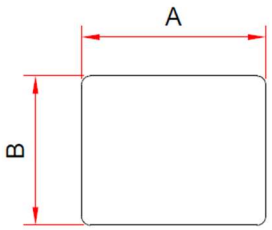
. DC/DC converter for CPU in Notebook PC

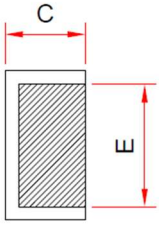
. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

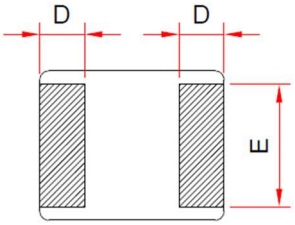
. Thin type on-board power supply module for exchanger

. VRM for server

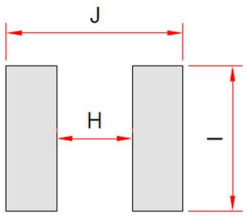
Shape and Dimensions







Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
UCPL252010	2.5±0.2	2.0±0.2	0.8±0.2	0.6±0.3	1.8±0.2	1.2	2.3	2.8
UCPL252012	2.5±0.2	2.0±0.2	1.0±0.2	0.6±0.3	1.8±0.2	1.2	2.3	2.8

Features :

. High performance (I sat) realized by metal dust core.

. Low profile: 2.5mm x 2.0mm x 1.0mm

. Low loss realized with low DCR

. Magnetically Shielded.

. RoHS compliant.

Product Identification:

UCPL 252010 – 1R0 M

(1) (2) (3) (4)

(1) Series

(2) Dimensions :**252010** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △ T=40℃

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UCPL252010 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCPL252010-1R5M	1.5	20	56	68	3.5	3.0	2.9	2.5
UCPL252010-2R2M	2.2	20	82	97	3.1	2.6	2.3	2.1
UCPL252010-3R3M	3.3	20	140	168	2.5	2.1	1.8	1.6

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

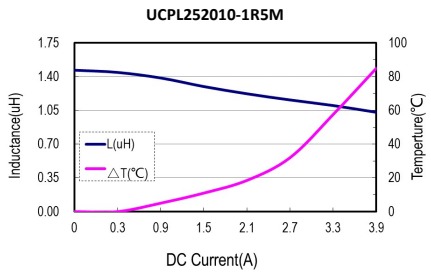
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

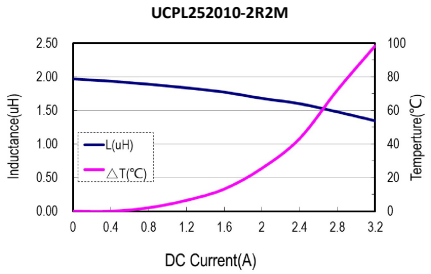
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

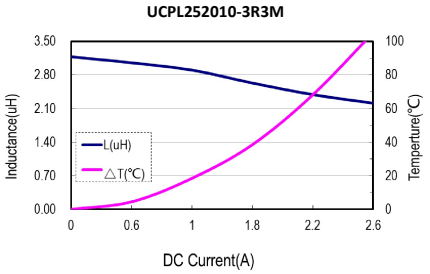
Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical performance curves :

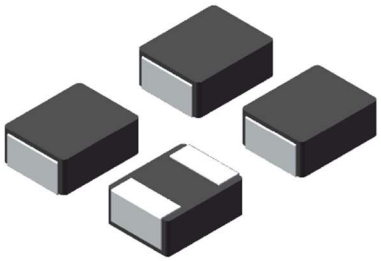






UCPL 3225 SERIES

HIGH POWER INDUCTOR



Applications:

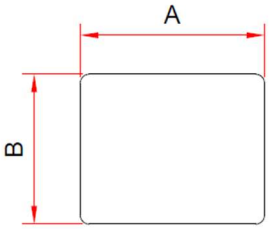
. DC/DC converter for CPU in Notebook PC

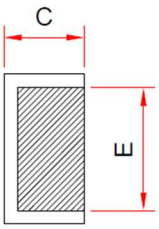
. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

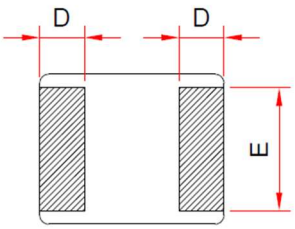
. Thin type on-board power supply module for exchanger

. VRM for server

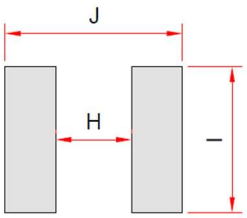
Shape and Dimensions







Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
UCPL322512	3.2±0.2	2.5±0.2	1.0±0.2	0.6±0.3	2.3±0.2	1.7	2.8	3.5
UCPL322520	3.2±0.2	2.5±0.2	1.8±0.2	0.6±0.3	2.3±0.2	1.7	2.8	3.5

Features :

. High performance (I sat) realized by metal dust core.

. Low profile: 3.2mm x 2.5mm x 1.2mm

. Low loss realized with low DCR

. Magnetically Shielded.

. RoHS compliant.

Product Identification:

UCPL 322512 – 1R0 M

(1) (2) (3) (4)

(1) Series

(2) Dimensions :**322512** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UCPL322512 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCPL322512-R47M	0.47	20	17	22	9.0	8.0	5.8	5.2
UCPL322512-1R0M	1.0	20	34	42	6.3	5.8	4.2	3.8
UCPL322512-4R7M	4.7	20	140	157	2.8	2.4	1.9	1.6
UCPL322512-6R8M	6.8	20	220	276	2.2	1.9	1.5	1.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

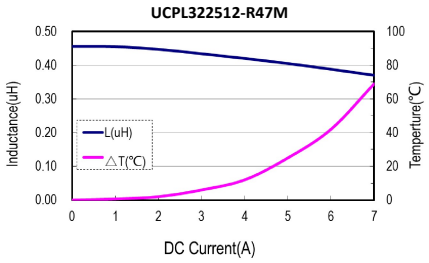
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

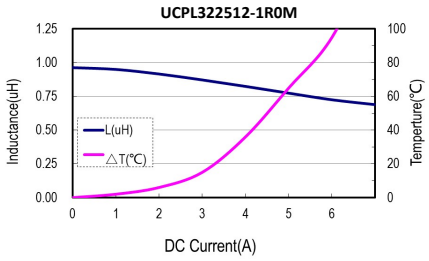
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

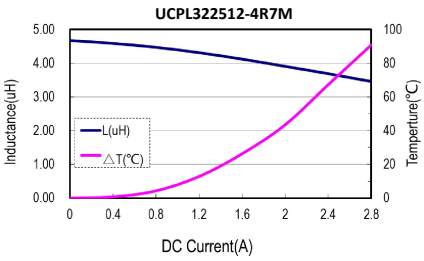
Note 4: Operating temperature range includes self-temperature rise.

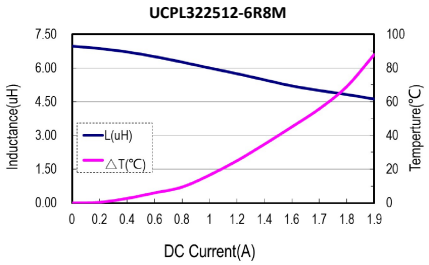
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical performance curves :









● UCPL322520 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCPL322520-1R0M	1.0	20	20	24	7.6	6.5	4.5	4.0
UCPL322520-2R2M	2.2	20	33	40	4.6	4.0	3.0	2.6

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

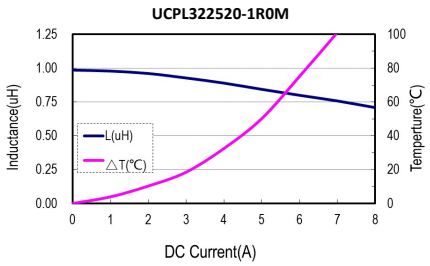
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

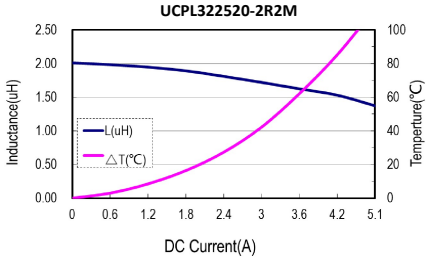
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical performance curves :





● UCPL252012 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UCPL252012-R47M	0.47	20	18	22	7.8	7.0	5.0	4.6
UCPL252012-1R5M	1.5	20	51	58	4.2	3.6	3.3	3.0
UCPL252012-2R2M	2.2	20	70	82	3.4	3.0	2.9	2.6
UCPL252012-3R3M	3.3	20	120	140	2.8	2.3	2.0	1.6

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

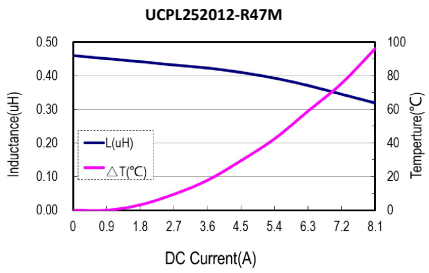
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

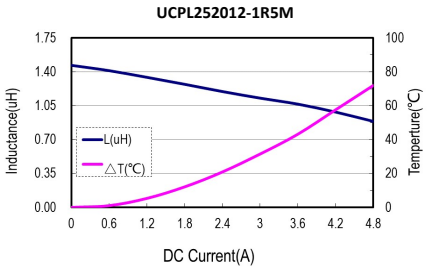
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

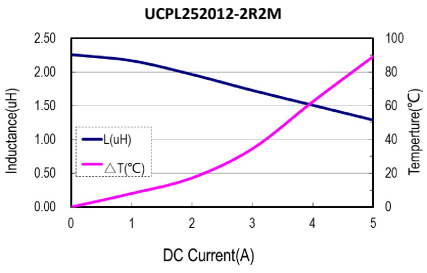
Note 4: Operating temperature range includes self-temperature rise.

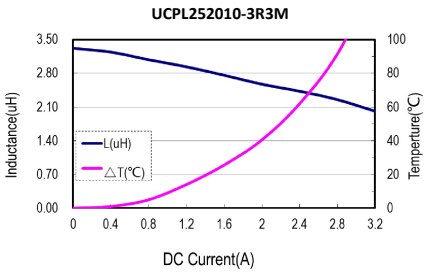
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical performance curves :



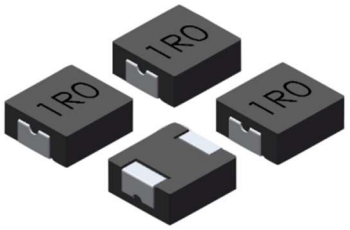






UMD 03&04 SERIES

HIGH POWER INDUCTOR



Applications:

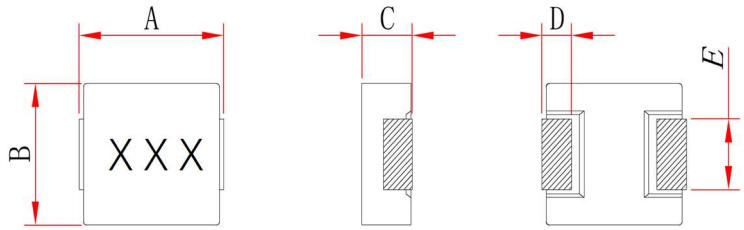
. DC/DC converter for CPU in Notebook PC

. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

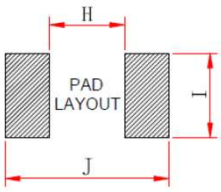
. Thin type on-board power supply module for exchanger

. VRM for server

Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
UMD0310	3.4±0.2	3.0±0.2	0.8±0.2	0.7±0.3	1.3±0.2	1.2	2.0	4.2
UMD0312	3.4±0.2	3.0±0.2	1.0±0.2	0.7±0.3	1.3±0.2	1.2	2.0	4.2
UMD0315	3.4±0.2	3.0±0.2	1.3±0.2	0.7±0.3	1.3±0.2	1.2	2.0	4.2
UMD0302	3.4±0.2	3.0±0.2	1.8±0.2	0.7±0.3	1.3±0.2	1.2	2.0	4.2
UMD0410	4.4±0.2	4.0±0.2	0.8±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
UMD0412	4.4±0.2	4.0±0.2	1.0±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
UMD0415	4.4±0.2	4.0±0.2	1.3±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
UMD0402	4.4±0.2	4.0±0.2	1.8±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95

Features :

. High performance (I sat) realized by metal dust core.

. Low profile: 1.0~2.0mm

. Low loss realized with low DCR

. Magnetically Shielded.

. RoHS compliant.

Product Identification:

UMD 0310 – 1R0 M

(1) (2) (3) (4)

(1) Series.

(2) Dimensions :**0310** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △ T=40℃ .

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UMD03 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMD0310-R15M	0.15	20	9.3	12.0	12.0	10.0	8.0	7.0
UMD0310-R22M	0.22	20	11.0	14.0	11.0	9.0	7.0	5.5
UMD0310-R33M	0.33	20	15.0	18.0	10.0	9.0	6.0	4.0
UMD0310-R47M	0.47	20	22.0	25.0	7.0	6.0	4.0	3.0
UMD0310-1R0M	1.0	20	40.0	48.0	5.0	4.0	2.8	2.4
UMD0310-1R5M	1.5	20	54.0	65.0	4.0	3.5	2.4	2.0
UMD0310-2R2M	2.2	20	87.0	100	3.5	3.0	1.8	1.5
UMD0310-100M	10.0	20	380	430	1.4	1.2	0.9	0.7
UMD0312-R12M	0.12	20	4.3	5.5	17	14.0	11.0	9.0
UMD0312-R22M	0.22	20	9.6	12.0	12	11.0	9.0	7.5
UMD0312-R33M	0.33	20	15.8	18.0	9.6	8.6	7.2	5.2
UMD0312-R47M	0.47	20	22.0	25.0	8.2	7.2	6.2	4.2
UMD0312-1R0M	1.0	20	39.2	45.0	5.8	5.0	4.0	3.0
UMD0312-2R2M	2.2	20	88.0	102	4.0	3.5	2.6	2.1
UMD0312-3R3M	3.3	20	136	155	3.2	2.8	1.8	1.4
UMD0312-4R7M	4.7	20	160	190	2.0	1.8	1.4	0.9
UMD0312-100M	10.0	20	313	360	1.5	1.2	1.0	0.8
UMD0315-R22M	0.22	20	10.7	13.0	14	12.0	11.0	9.0
UMD0315-R33M	0.33	20	15.0	18.0	13	11.5	8.5	6.5
UMD0315-R47M	0.47	20	19.0	22.0	9.0	7.5	7.0	5.0
UMD0315-1R0M	1.0	20	36.0	42.0	6.2	5.2	4.5	3.5
UMD0315-1R5M	1.5	20	50.0	60.0	5.8	4.8	3.8	3.0
UMD0315-2R2M	2.2	20	72.0	85.0	5.0	4.0	3.2	2.6
UMD0315-3R3M	3.3	20	92.0	110	3.5	3.0	2.2	1.5
UMD0315-100M	10.0	20	313	360	2.0	1.5	1.2	0.9
UMD0302-R22M	0.22	20	8.0	10.0	16	13.0	10.0	8.0
UMD0302-R33M	0.33	20	12.0	15.0	14	12.0	9.0	7.0
UMD0302-R47M	0.47	20	15.0	18.0	12	10.0	8.0	6.5
UMD0302-R68M	0.68	20	22.0	26.0	10	8.5	7.0	5.5
UMD0302-1R0M	1.0	20	25.0	30.0	8.0	6.5	5.0	4.0
UMD0302-1R5M	1.5	20	34.0	39.0	6.0	5.0	4.2	3.2
UMD0302-2R2M	2.2	20	60.0	69.0	4.8	4.0	3.3	2.8
UMD0302-3R3M	3.3	20	70.0	83.0	4.0	3.5	2.8	2.2
UMD0302-4R7M	4.7	20	120	144	3.5	3.0	2.4	2.0
UMD0302-6R8M	6.8	20	153	184	3.0	2.6	1.6	1.2
UMD0302-100M	10.0	20	224	260	1.8	1.6	1.3	1.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

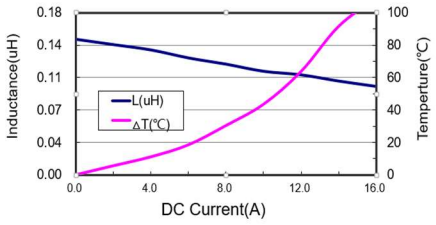
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

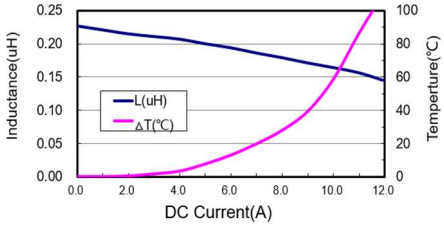
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:

UMD0310-R15M



UMD0310-R22M



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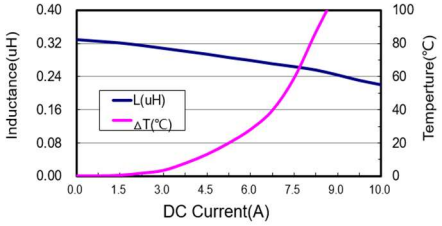

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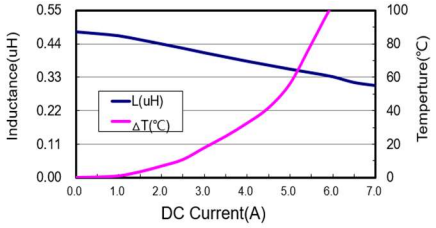

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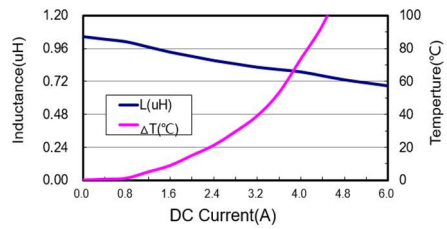

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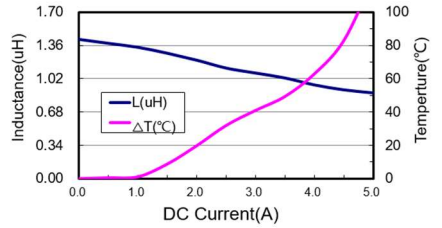

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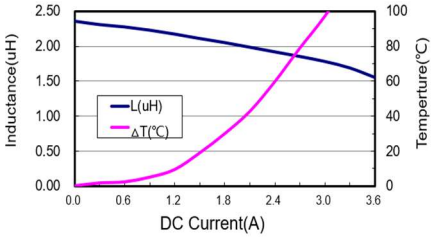
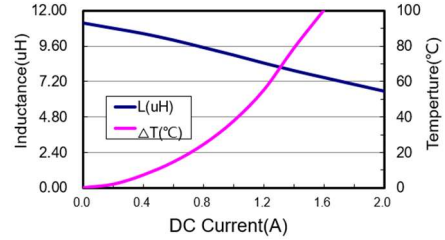
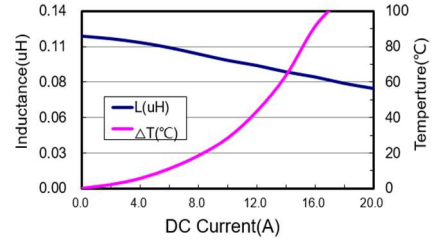


UMD0310-100M



UMD0312-R11M



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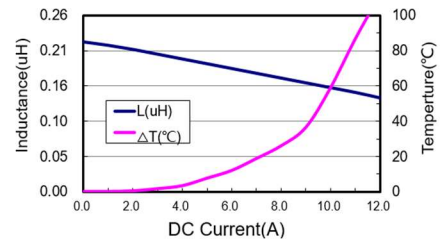

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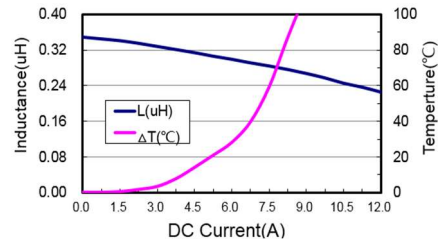

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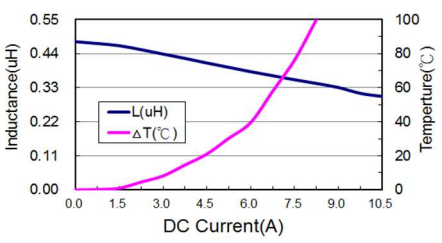

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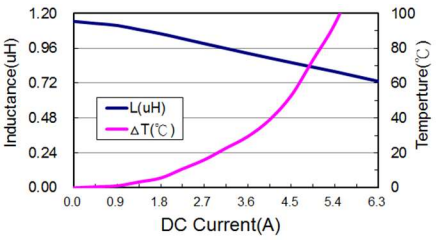

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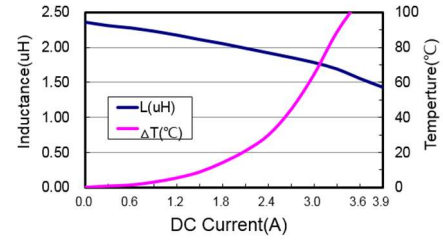

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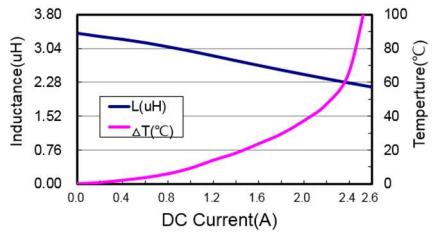
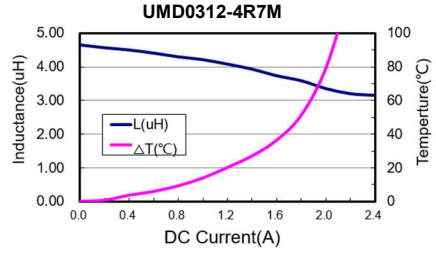


UMD0312-4R7M



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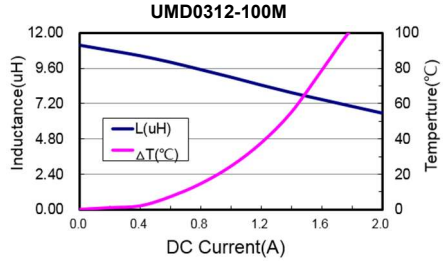

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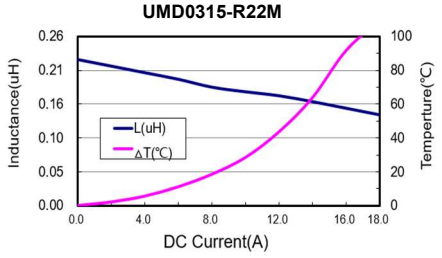
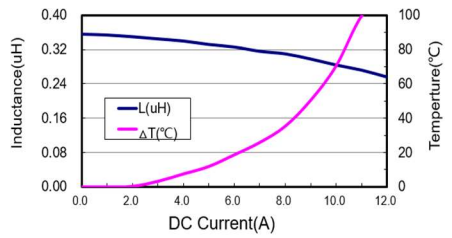


Typical Performance curves:

UMD0315-R33M



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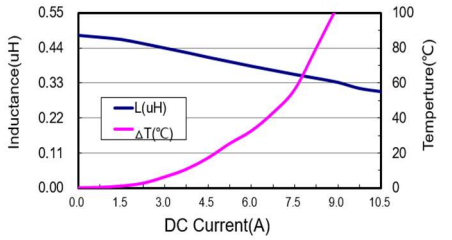

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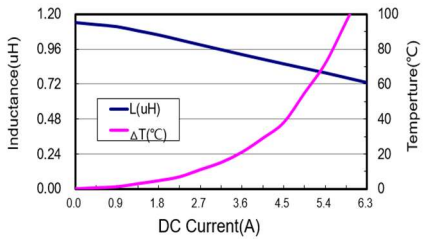

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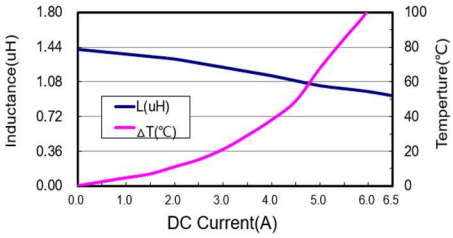
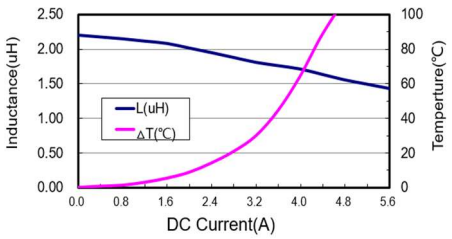


UMD0315-2R2M



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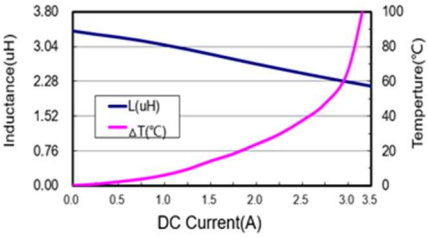

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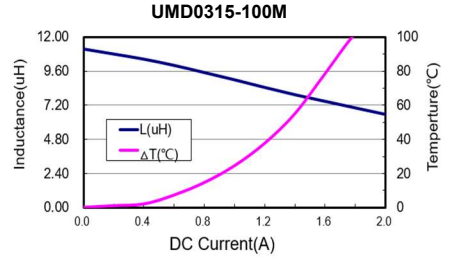
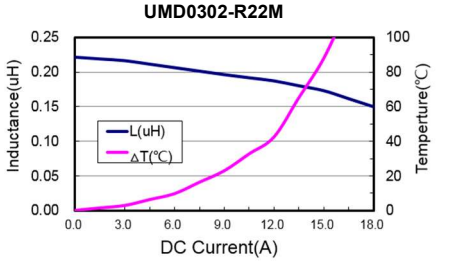


UMD0302-R22M



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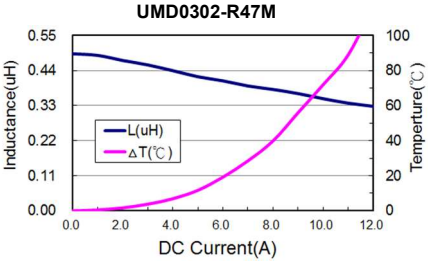

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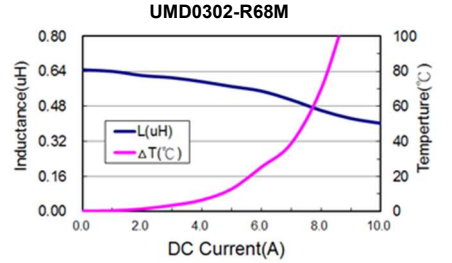
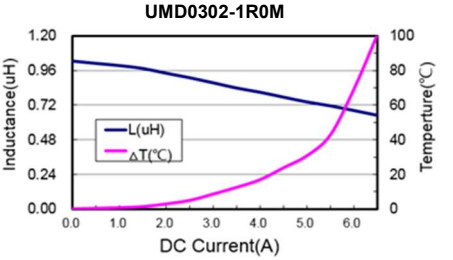


UMD0302-1R0M



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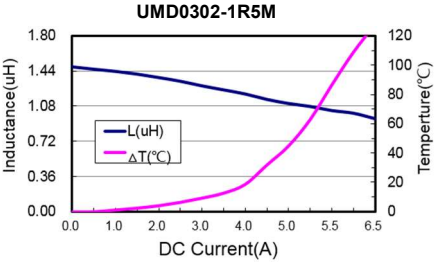

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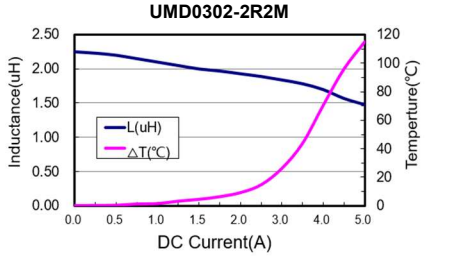

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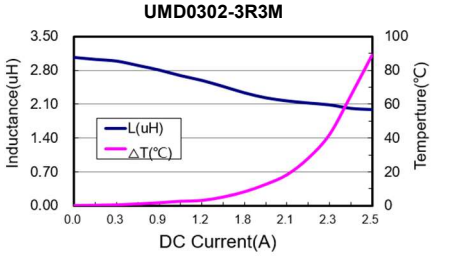

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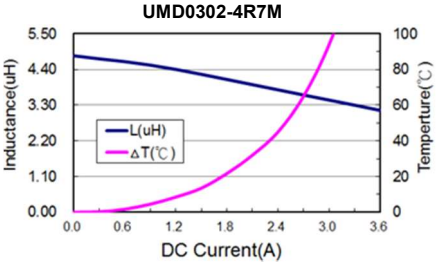
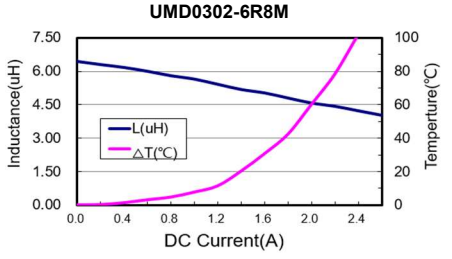
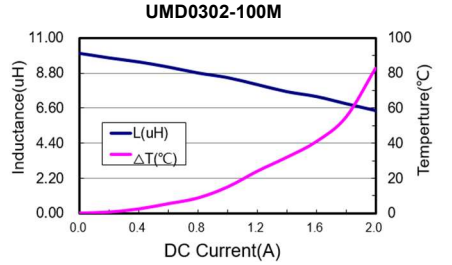


UMD0302-6R8M



UMD0302-100M



● UMD04 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMD0410-R22M	0.22	20	9.8	12.0	18.0	15.0	11.0	9.0
UMD0410-R33M	0.33	20	11.7	14.5	14.0	12.0	10.0	8.0
UMD0410-R47M	0.47	20	15.2	18.5	11.0	9.0	8.5	7.0
UMD0410-1R0M	1.0	20	35.0	42.0	6.5	5.5	4.2	3.5
UMD0410-2R2M	2.2	20	90.0	108	4.5	4.0	2.8	2.4
UMD0410-6R8M	6.8	20	224	268	2.8	2.2	1.4	1.1
UMD0410-100M	10.0	20	260	312	1.7	1.4	1.1	0.8
UMD0412-R33M	0.33	20	12.0	14.5	14.0	12.0	10.0	8.0
UMD0412-R47M	0.47	20	16.8	20.0	13.0	10.0	8.8	7.0
UMD0412-R68M	0.68	20	19.0	23.0	9.0	7.0	6.0	5.0
UMD0412-1R0M	1.0	20	36.5	43.0	7.8	6.2	5.2	4.5
UMD0412-1R5M	1.5	20	54.5	62.0	6.2	5.4	4.2	3.5
UMD0412-2R2M	2.2	20	72.0	80.0	5.5	4.5	3.5	3.0
UMD0412-3R3M	3.3	20	97.0	111	4.5	3.9	2.8	2.4
UMD0412-4R7M	4.7	20	119	143	3.2	2.8	2.2	1.8
UMD0415-R12M	0.12	20	6.0	7.2	24.0	22.0	14.0	12.0
UMD0415-R22M	0.22	20	7.3	8.8	20.0	15.0	13.0	11.0
UMD0415-R33M	0.33	20	12.0	14.5	14.0	12.5	10.0	8.0
UMD0415-R47M	0.47	20	17.8	22.0	13.0	11.0	8.8	7.0
UMD0415-1R0M	1.0	20	28.5	33.5	8.0	6.5	5.5	5.0
UMD0415-1R5M	1.5	20	41.0	47.0	7.0	6.0	4.2	3.5
UMD0415-2R2M	2.2	20	53.0	62.5	5.5	4.5	3.5	3.0
UMD0415-100M	10.0	20	232	278	2.0	1.8	1.2	1.0
UMD0402-R12M	0.12	20	3.5	4.2	30.0	24.0	15.0	12.0
UMD0402-R22M	0.22	20	6.2	7.4	24.0	18.0	14.0	12.0
UMD0402-R33M	0.33	20	7.0	8.4	14.0	12.0	11.0	9.0
UMD0402-R47M	0.47	20	9.4	11.3	14.0	12.0	10.0	8.0
UMD0402-R68M	0.68	20	13.3	16.0	12.0	11.0	9.0	7.0
UMD0402-1R0M	1.0	20	16.4	20.0	9.0	7.2	6.5	5.5
UMD0402-1R5M	1.5	20	22.0	26.4	7.5	6.5	4.8	4.0
UMD0402-2R2M	2.2	20	31.5	38.0	6.0	5.5	4.0	3.5
UMD0402-3R3M	3.3	20	45.0	54.0	5.0	4.5	3.5	3.0
UMD0402-4R7M	4.7	20	58.0	70.0	4.5	4.0	3.0	2.2
UMD0402-6R8M	6.8	20	86.0	103	3.5	3.0	2.4	2.0
UMD0402-100M	10.0	20	170	190	3.5	3.0	2.0	1.8
UMD0402-150M	15.0	20	240	275	2.6	2.0	1.8	1.3
UMD0402-220M	22.0	20	265	320	2.1	1.6	1.2	1.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

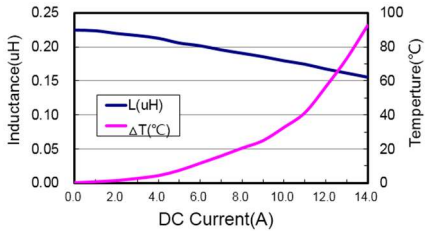
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

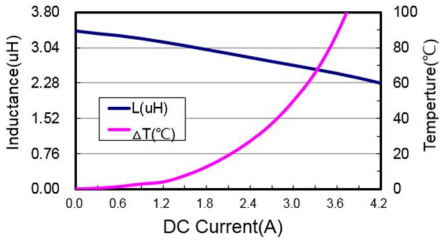
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:

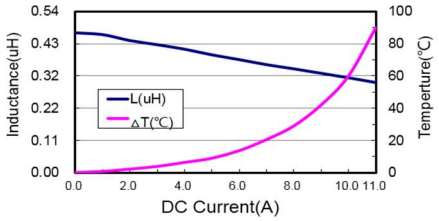
UMD0410-R22M



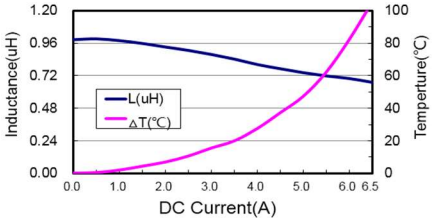
UMD0410-R33M



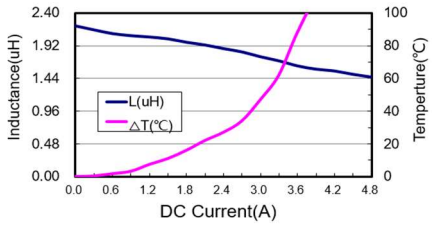
UMD0410-R47M



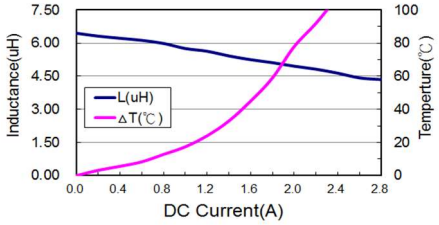
UMD0410-1R0M



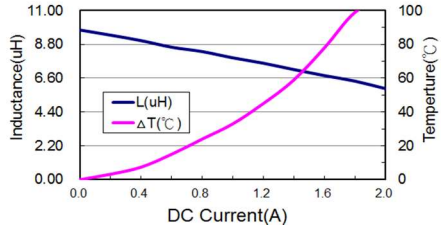
UMD0410-2R2M



UMD0410-6R8M



UMD0410-100M



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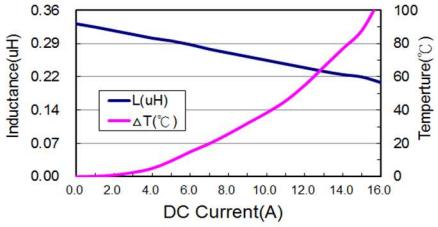

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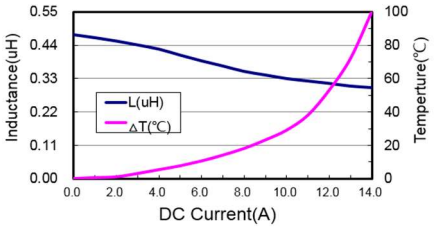
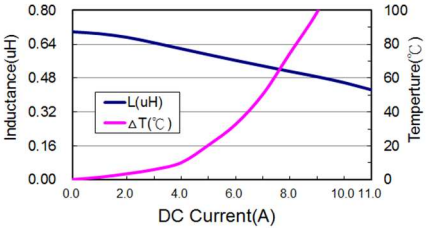
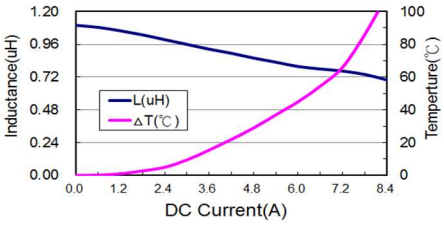


UMD0412-R68M



UMD0412-1R0M



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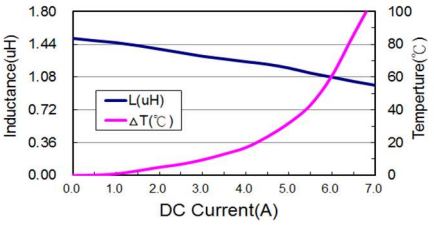

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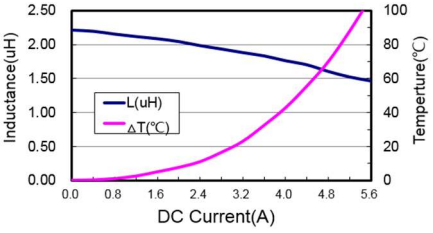

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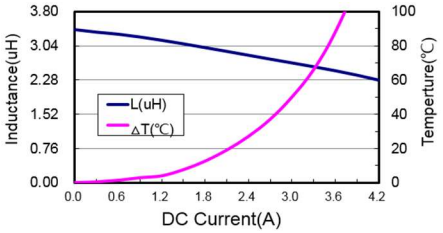

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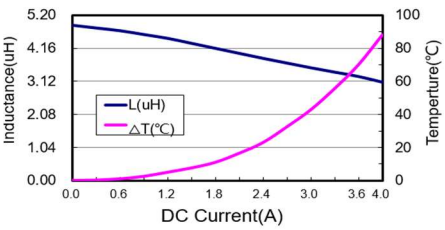

Typical Performance curves:

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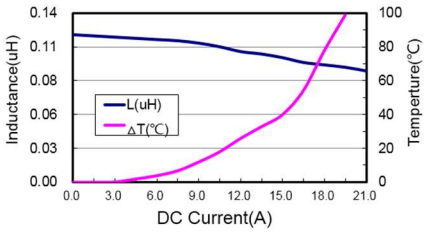

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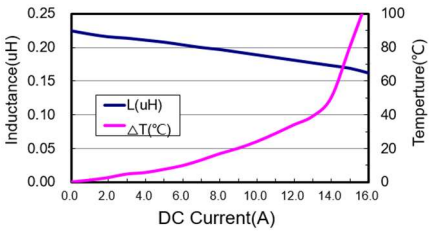

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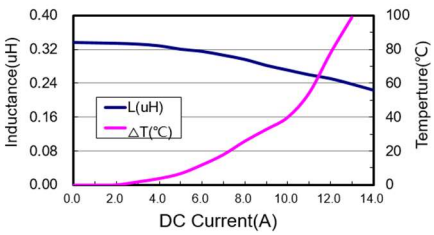

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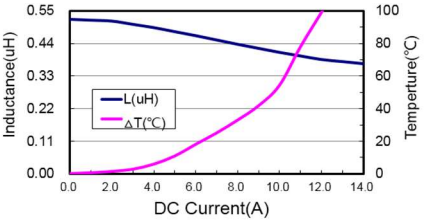

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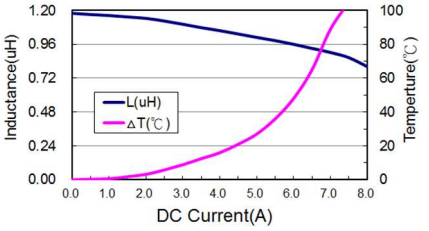

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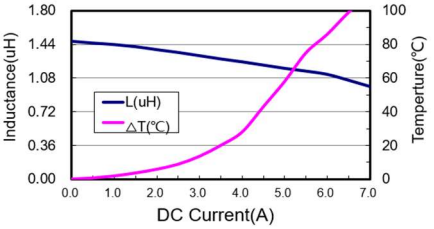

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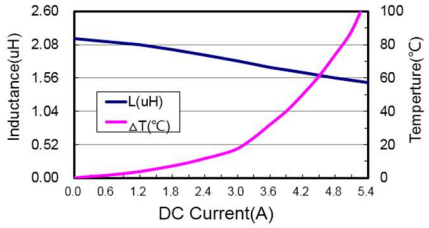

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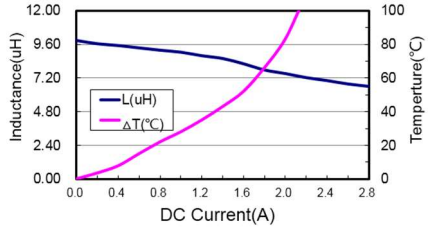

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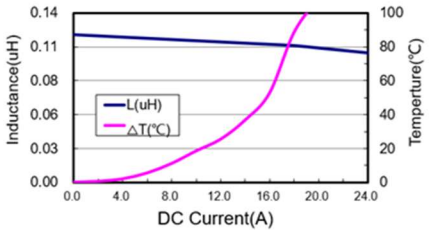

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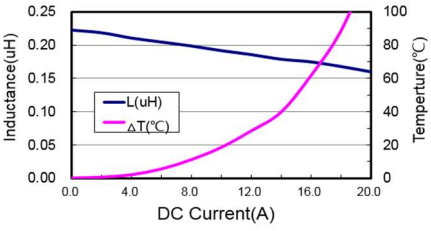

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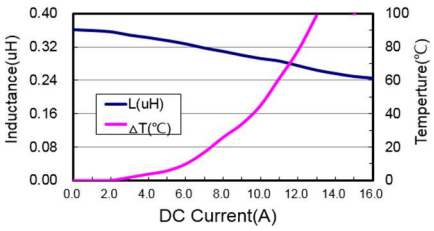

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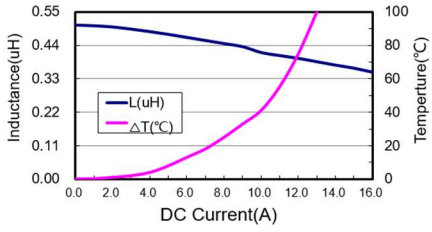

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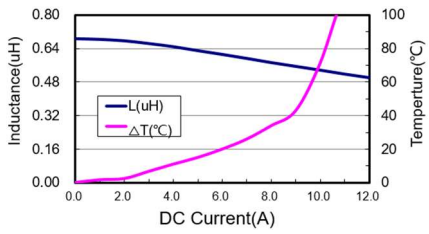

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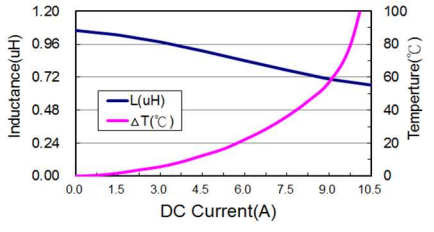

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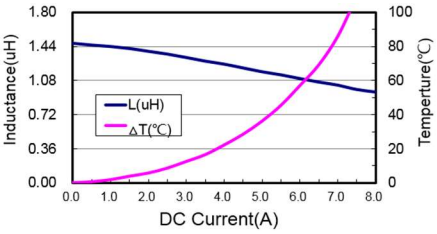

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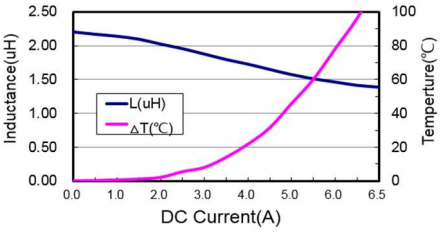

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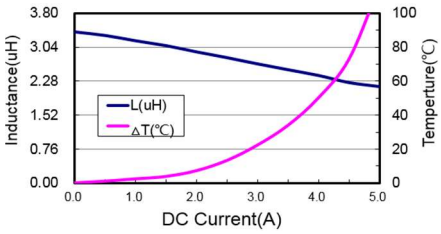

Typical Performance curves:

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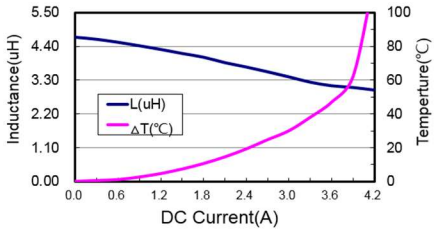
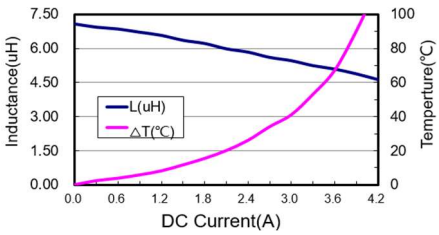


UMD0402-6R8M



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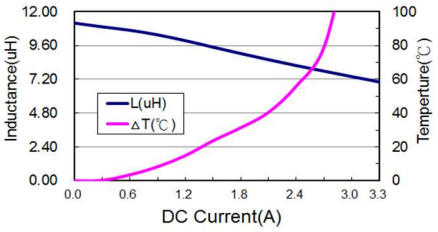

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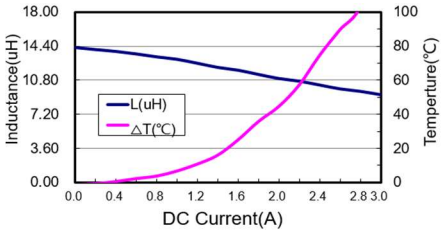

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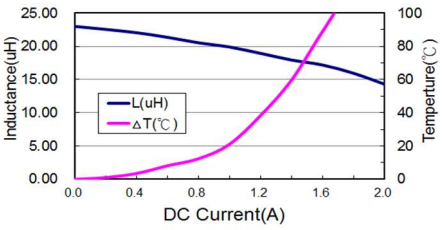
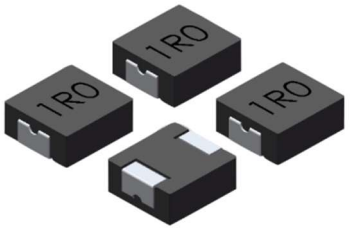


UMD 05&06 SERIES

HIGH POWER INDUCTOR



Applications:

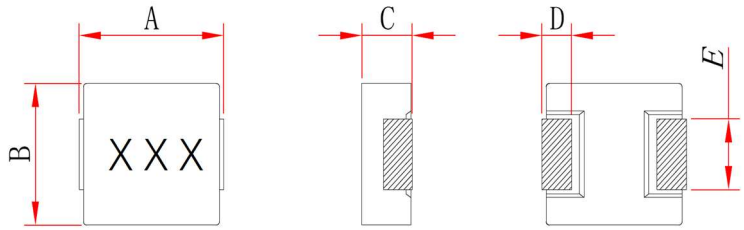
. DC/DC converter for CPU in Notebook PC

. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

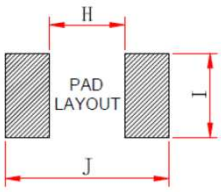
. Thin type on-board power supply module for exchanger

. VRM for server

Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
UMD0510	5.5±0.2	5.2±0.2	0.8±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
UMD0512	5.5±0.2	5.2±0.2	1.0±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
UMD0515	5.5±0.2	5.2±0.2	1.3±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
UMD0518	5.5±0.2	5.2±0.2	1.6±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
UMD0502	5.5±0.2	5.2±0.2	1.8±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
UMD0610	7.1±0.2	6.6±0.2	0.8±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
UMD0612	7.1±0.2	6.6±0.2	1.0±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
UMD0615	7.1±0.2	6.6±0.2	1.3±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
UMD0618	7.1±0.2	6.6±0.2	1.6±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
UMD0602	7.1±0.2	6.6±0.2	1.8±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00

Features :

. High performance (I sat) realized by metal dust core.

. Low profile: 1.0~2.0mm

. Low loss realized with low DCR

. Magnetically Shielded.

. RoHS compliant.

Product Identification:

UMD 0510 – 1R0 M

(1) (2) (3) (4)

(1) Series .

(2) Dimensions :**0510** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △ T=40℃.

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UMD05 SERIES

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMD0510-1R0M	1.0	20	42.8	52.0	9.4	7.8	3.5	3.0
UMD0510-2R2M	2.2	20	87.0	105	4.5	3.8	3.0	2.5
UMD0510-4R7M	4.7	20	158	190	4.0	3.5	2.2	2.0
UMD0512-1R0M	1.0	20	27.6	31.8	9.0	8.2	5.7	4.8
UMD0512-2R2M	2.2	20	55.0	66.0	5.2	4.2	4.0	3.5
UMD0512-4R7M	4.7	20	130	156	4.0	3.5	2.5	2.0
UMD0512-100M	10.0	20	272	326	2.5	2.2	1.8	1.5
UMD0515-R68M	0.68	20	11.6	14.5	15.0	13.0	9.0	8.0
UMD0515-1R0M	1.0	20	18.8	22.6	11.5	9.5	6.6	6.0
UMD0515-1R5M	1.5	20	28.0	34.0	9.5	8.2	5.7	5.0
UMD0515-2R2M	2.2	20	41.4	49.5	7.0	6.0	4.3	3.4
UMD0515-4R7M	4.7	20	80.0	96.0	5.0	4.2	3.0	2.6
UMD0515-100M	10.0	20	149	170	3.6	3.0	2.4	2.0
UMD0518-R47M	0.47	20	7.4	8.9	19.0	15.5	10.5	9.5
UMD0518-2R2M	2.2	20	29.2	35.0	8.2	7.4	5.2	4.7
UMD0518-4R7M	4.7	20	61.8	72.8	4.6	4.0	3.5	3.0
UMD0518-6R8M	6.8	20	71.5	86.0	3.6	3.0	3.2	2.8
UMD0518-100M	10.0	20	126	149	3.4	2.9	2.8	2.4
UMD0502-1R0M	1.0	20	13.7	16.5	13.5	10.6	7.5	6.8
UMD0502-3R3M	3.3	20	49.4	59.3	7.8	6.5	4.2	3.5
UMD0502-4R7M	4.7	20	54.0	65.0	4.8	4.0	4.1	3.2
UMD0502-100M	10.0	20	135	162	4.0	3.3	2.5	2.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

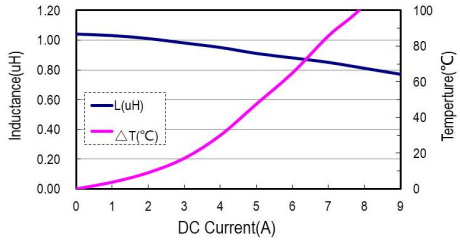
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

TYPICAL PERFORMANCE CURVES

UMD0510-1R0M



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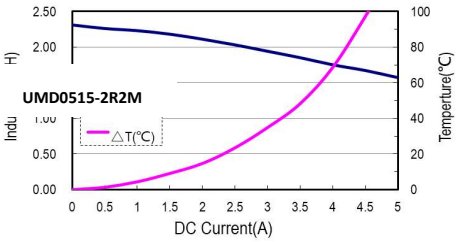
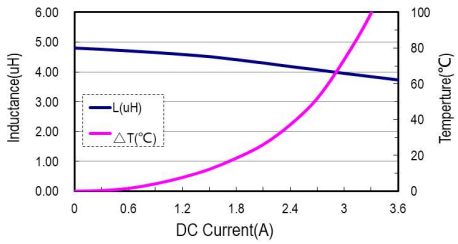


UMD0510-4R7M



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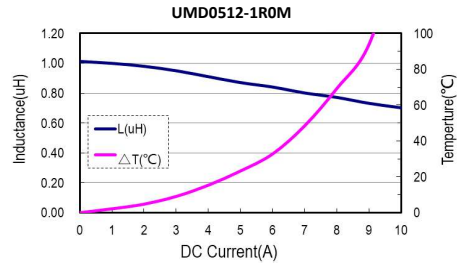

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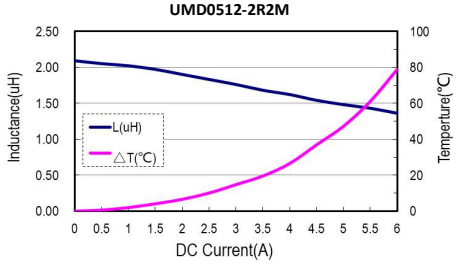

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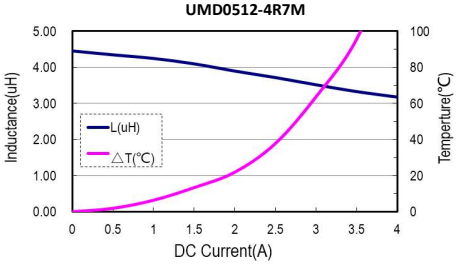

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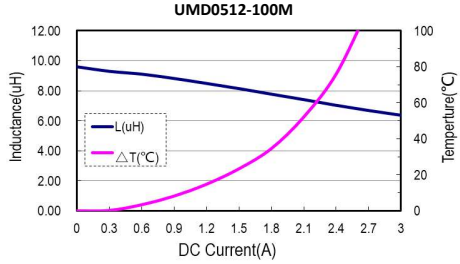

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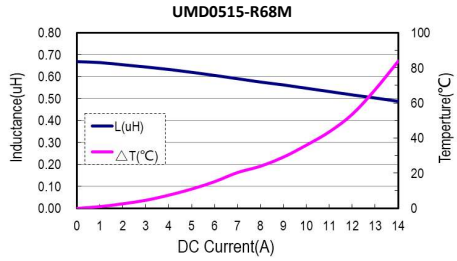

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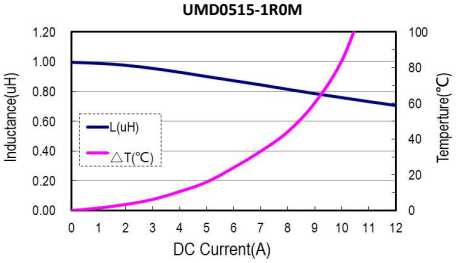

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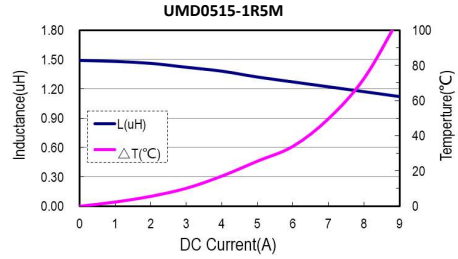

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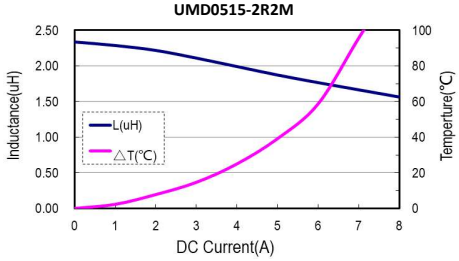

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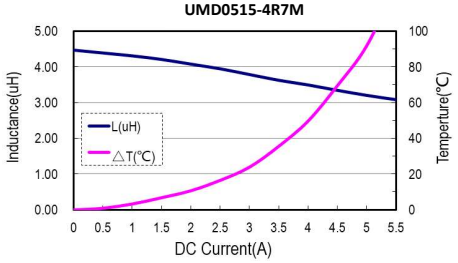
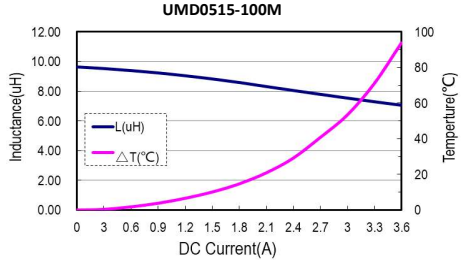
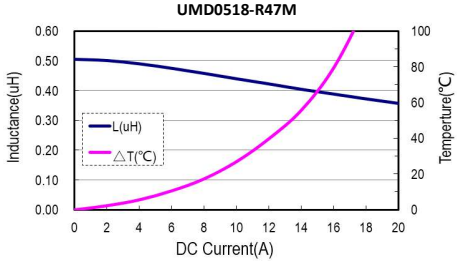


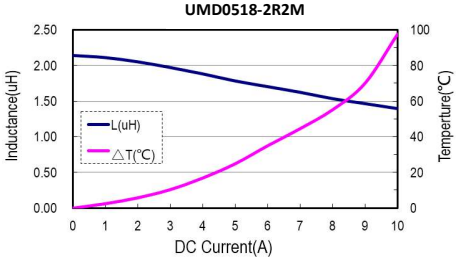
UMD0515-100M



UMD0518-R47M



UMD0518-2R2M



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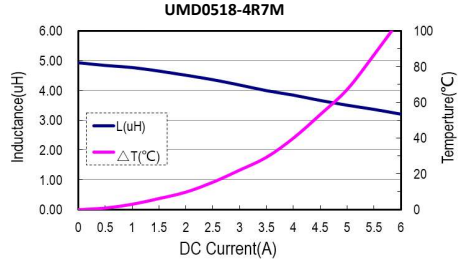

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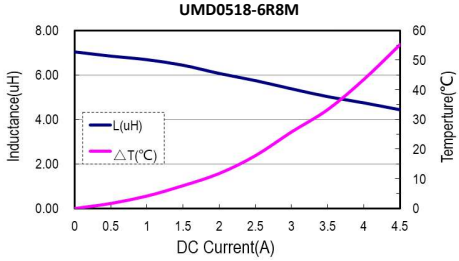

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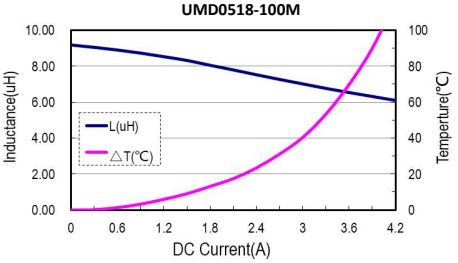
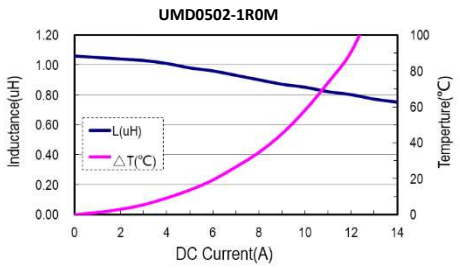
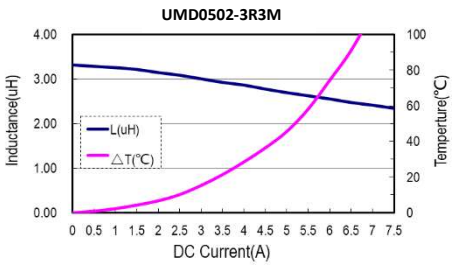
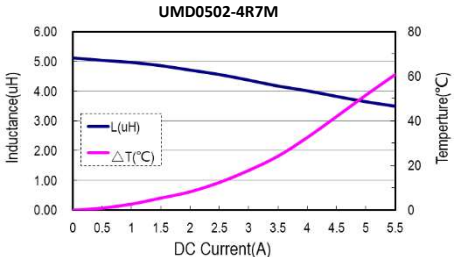
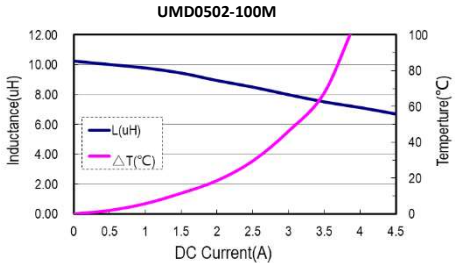










● UMD06 SERIES

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMD0610-R68M	0.68	20	23.2	27.8	12.5	10.5	6.2	5.5
UMD0610-1R0M	1.0	20	34.5	41.5	11.0	9.0	5.2	4.2
UMD0610-1R5M	1.5	20	59.3	71.0	7.3	6.3	4.2	3.7
UMD0612-1R0M	1.0	20	24.9	28.0	12.0	9.7	6.0	5.0
UMD0612-2R2M	2.2	20	54.4	65.0	6.4	5.8	4.5	4.0
UMD0612-4R7M	4.7	20	76.2	91.0	4.5	4.0	3.5	3.0
UMD0615-1R0M	1.0	20	18.4	21.0	12.0	10.0	8.2	7.6
UMD0615-1R5M	1.5	20	23.9	28.0	11.2	9.6	7.0	6.0
UMD0615-2R2M	2.2	20	36.0	42.0	7.5	7.0	6.0	5.2
UMD0615-3R3M	3.3	20	54.0	63.0	7.0	6.4	4.8	4.2
UMD0618-2R2M	2.2	20	29.7	34.0	11.0	10.0	6.0	5.0
UMD0618-3R3M	3.3	20	46.6	56.0	8.4	7.0	4.5	4.0
UMD0618-100M	10.0	20	125	145	4.8	4.0	2.6	2.4
UMD0602-2R2M	2.2	20	18.5	22.5	10.5	9.0	7.0	6.5
UMD0602-3R3M	3.3	20	40.0	48.0	9.2	8.3	4.8	4.2
UMD0602-4R7M	4.7	20	41.0	50.0	7.6	6.5	4.5	4.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

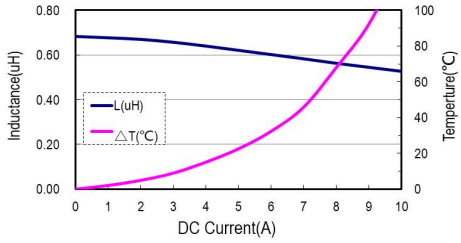
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

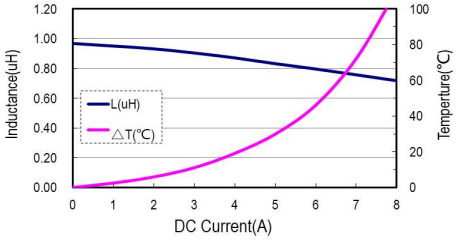
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

TYPICAL PERFORMANCE CURVES

UMD0610-R68M



UMD0610-1R0M



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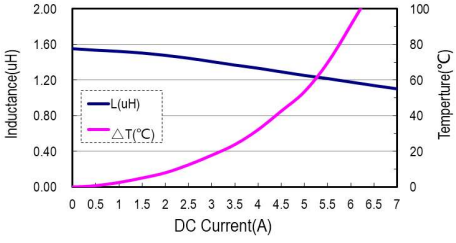
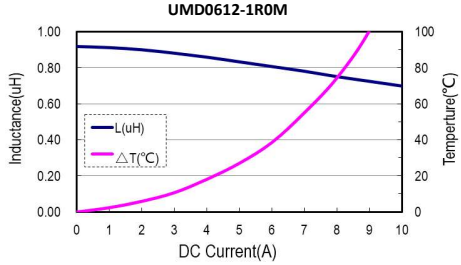
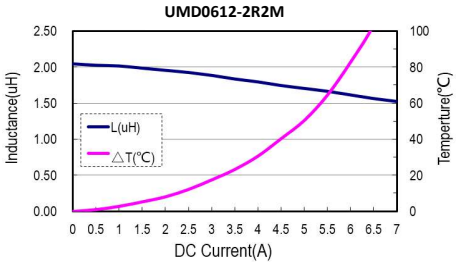


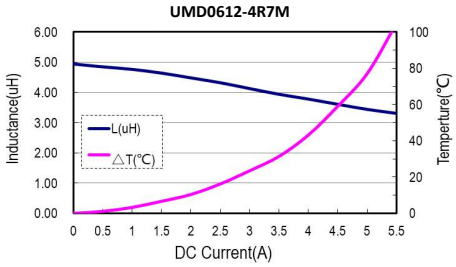
UMD0612-1R0M



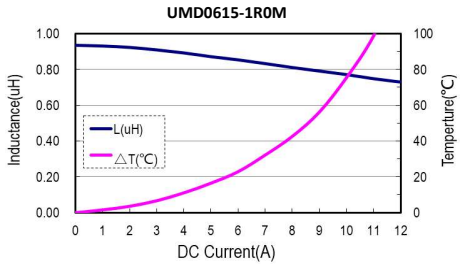
UMD0612-2R2M



UMD0612-4R7M



UMD0615-1R0M



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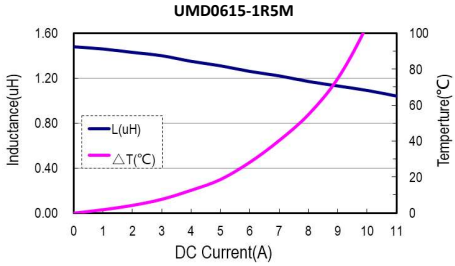

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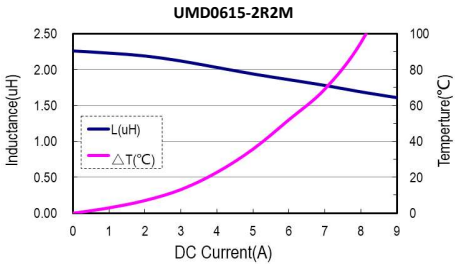
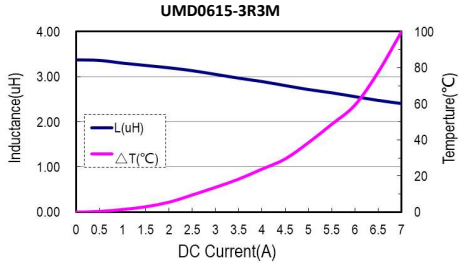
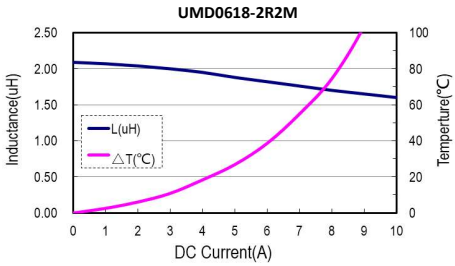


UMD0615-3R3M



UMD0618-2R2M



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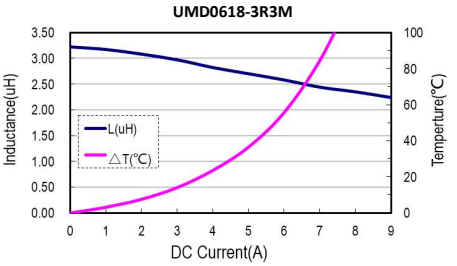
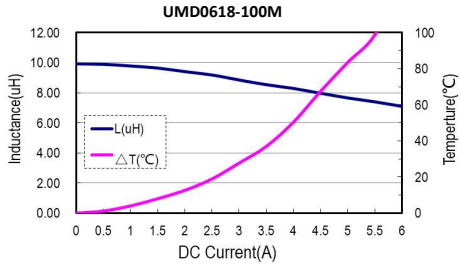
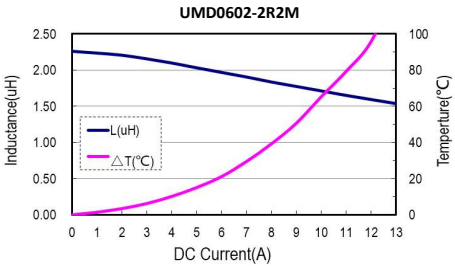


UMD0618-100M



UMD0602-2R2M



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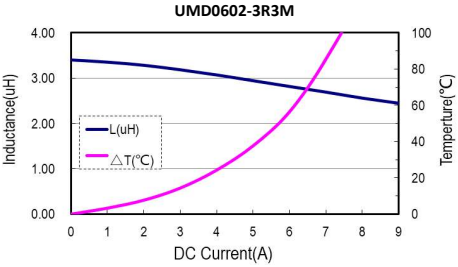
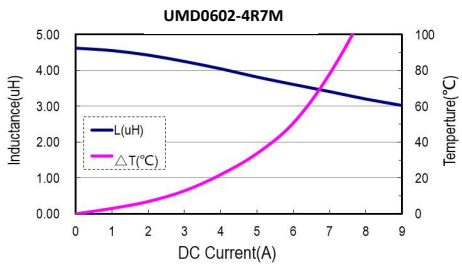
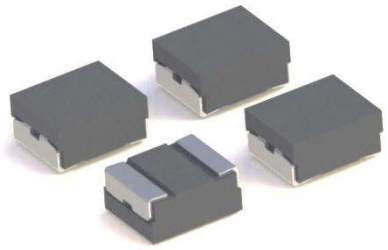


UMD0602-4R7M



UMD 2016/2520 SERIES

HIGH POWER INDUCTOR



Applications:

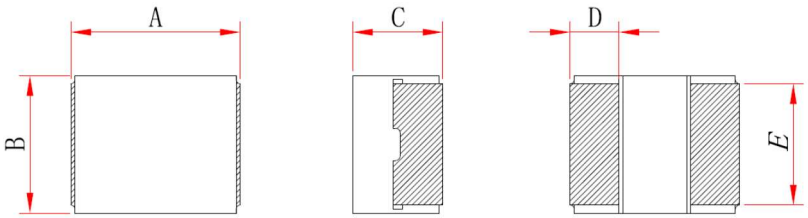
. DC/DC converter for CPU in Notebook PC

. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

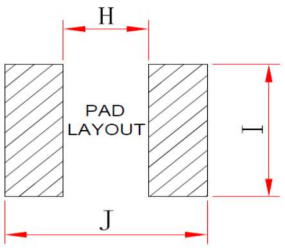
. Thin type on-board power supply module for exchanger

. VRM for server

Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
UMD201610	2.0±0.2	1.6±0.2	1.0 Max	0.5±0.2	1.44	0.9	1.6	2.3
UMD201612	2.0±0.2	1.6±0.2	1.2 Max	0.5±0.2	1.44	0.9	1.6	2.3
UMD252010	2.5±0.2	2.0±0.2	1.0 Max	0.6±0.2	1.84	1.2	2.0	2.8
UMD252012	2.5±0.2	2.0±0.2	1.2 Max	0.6±0.2	1.84	1.2	2.0	2.8

Features :

. High performance (I sat) realized by metal dust core.

. Low profile: 2.0mm x 1.6mm x 1.0mm
2.0mm x 1.6mm x 1.2mm
2.5mm x 2.0mm x 1.0mm
2.5mm x 2.0mm x 1.2mm

. Low loss realized with low DCR

. Magnetically Shielded.

. RoHS compliant.

Product Identification:

UMD 201610 – 1R0 M

(1) (2) (3) (4)

(1) Series

(2) Dimensions :**201610** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △ T=40℃

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UMD2016/2520 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMD201610-R24M	0.24	20	20.0	24.0	4.8	4.3	4.0	3.5
UMD201610-R33M	0.33	20	29.0	36.0	4.2	3.7	3.4	3.0
UMD201610-R47M	0.47	20	36.0	46.0	3.56	3.2	2.7	2.43
UMD201610-R68M	0.68	20	55.0	66.0	3.2	2.9	2.4	2.2
UMD201610-1R0M	1.0	20	63.0	78.0	2.7	2.2	2.1	1.9
UMD201610-1R5M	1.5	20	105	137	2.2	2.0	1.8	1.6
UMD201610-2R2M	2.2	20	174	197	1.9	1.6	1.6	1.4
UMD201612-R24M	0.24	20	17.0	21.0	5.3	4.8	4.5	4.0
UMD201612-R33M	0.33	20	27.0	33.0	4.6	4.0	3.9	3.5
UMD201612-R47M	0.47	20	30.0	36.0	3.9	3.5	3.5	3.1
UMD201612-R68M	0.68	20	46.0	55.0	3.5	3.0	2.8	2.6
UMD201612-1R0M	1.0	20	60.0	72.0	2.9	2.5	2.4	2.2
UMD201612-1R5M	1.5	20	86.0	112	2.4	2.2	1.9	1.7
UMD201612-2R2M	2.2	20	146	186	2.0	1.65	1.5	1.35
UMD252010-R22M	0.22	20	15.0	18.0	6.6	6.0	5.8	5.22
UMD252010-R33M	0.33	20	18.0	26.0	5.3	4.77	4.4	4.0
UMD252010-R47M	0.47	20	25.0	41.0	4.5	4.05	3.5	3.1
UMD252010-R68M	0.68	20	40.0	48.0	4.3	3.6	3.3	3.0
UMD252010-1R0M	1.0	20	49.0	65.0	3.55	3.2	2.8	2.52
UMD252010-1R5M	1.5	20	76.0	95.0	2.9	2.4	2.2	1.98
UMD252010-2R2M	2.2	20	110	121	2.4	2.1	1.8	1.62
UMD252012-R22M	0.22	20	12.0	15.0	8.5	7.0	7.3	6.2
UMD252012-R33M	0.33	20	15.0	17.0	5.8	5.22	5.5	4.95
UMD252012-R47M	0.47	20	23.0	28.0	5.0	4.5	4.5	4.0
UMD252012-R68M	0.68	20	34.0	40.0	4.3	3.7	3.8	3.3
UMD252012-1R0M	1.0	20	42.0	55.0	3.8	3.3	3.1	2.7
UMD252012-1R5M	1.5	20	61.0	70.0	2.9	2.61	2.7	2.43
UMD252012-2R2M	2.2	20	92.0	105	2.5	2.2	2.3	2.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

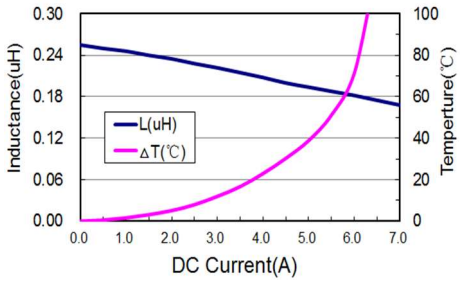
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

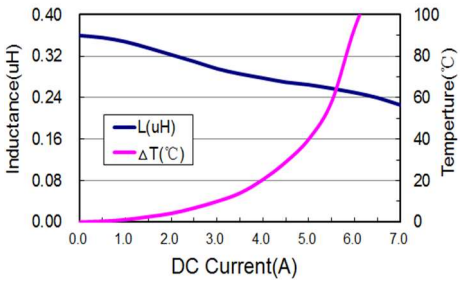
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical performance curves :

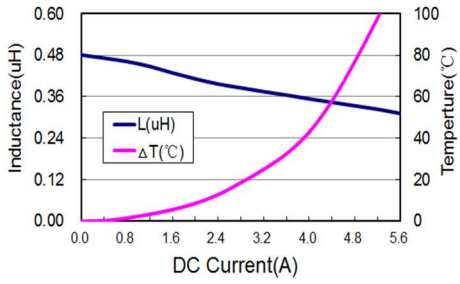
UMD201610-R24M



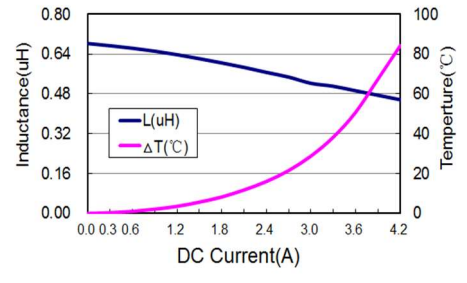
UMD201610-R33M



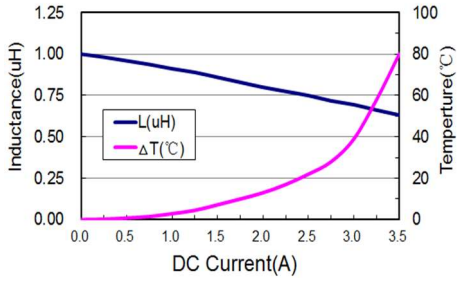
UMD201610-R47M



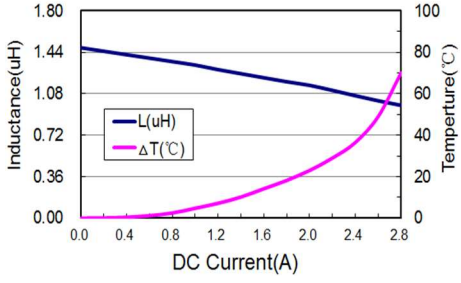
UMD201610-R68M



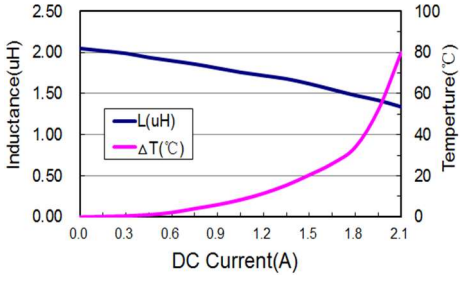
UMD201610-1R0M



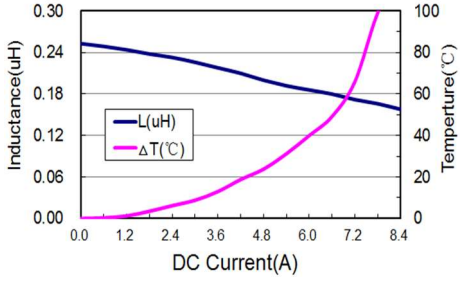
UMD201610-1R5M



UMD201610-2R2M



UMD201612-R24M



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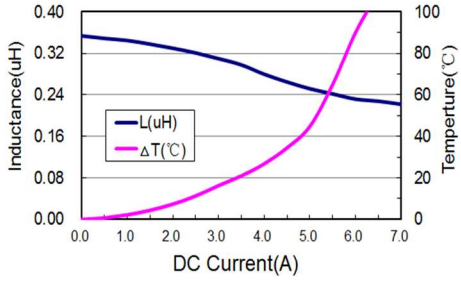

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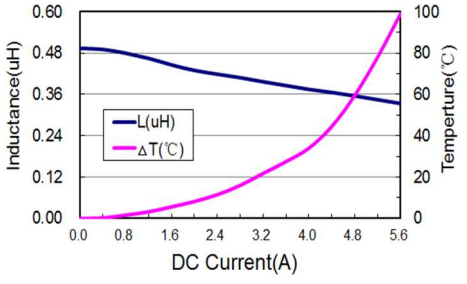

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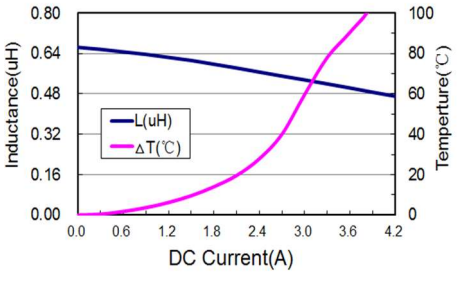

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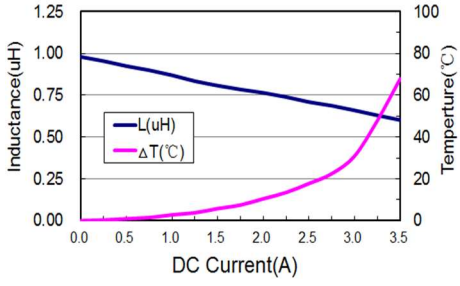

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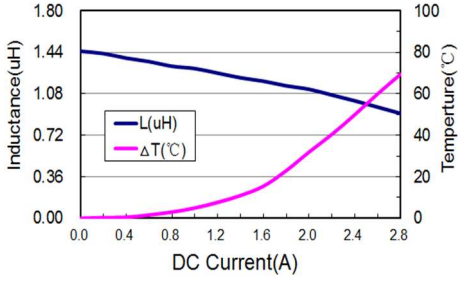

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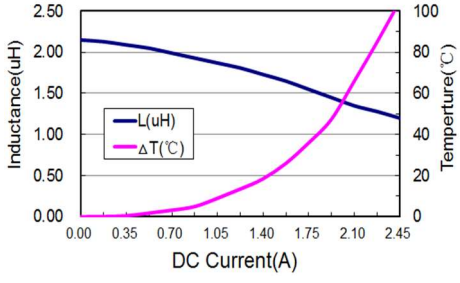
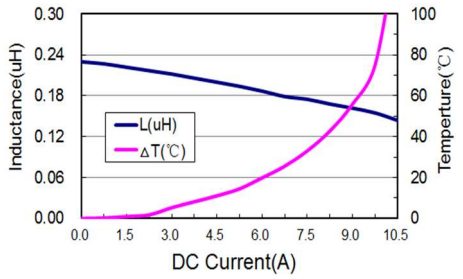


Typical performance curves :

UMD252010-R22M



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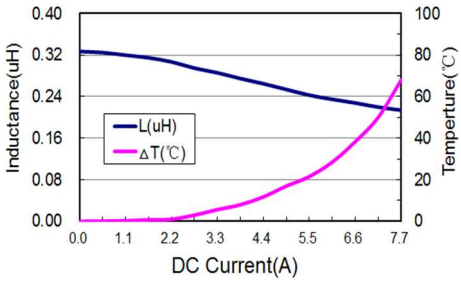

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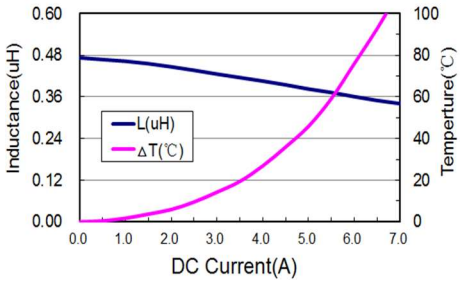
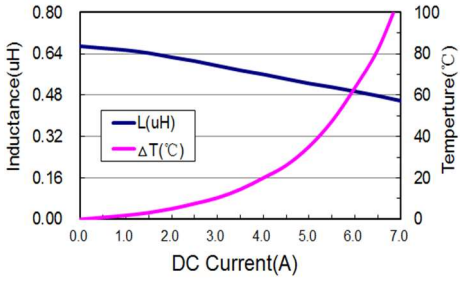


UMD252010-R68M



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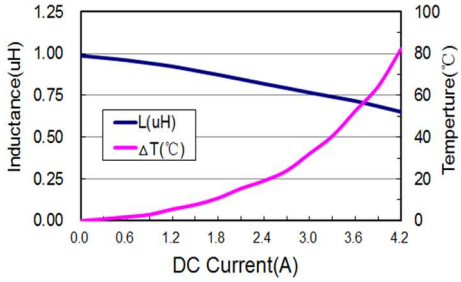

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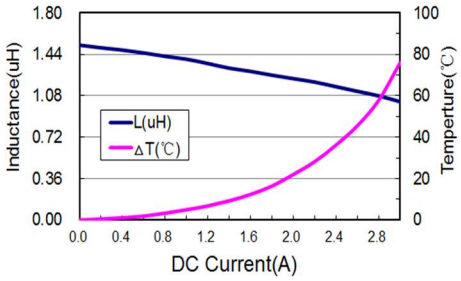

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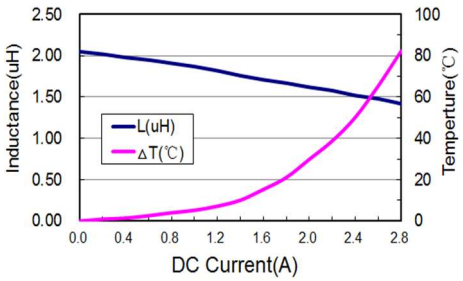
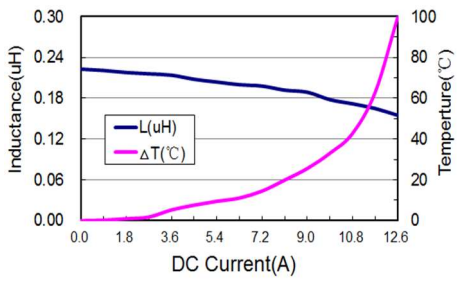


UMD252012-R22M



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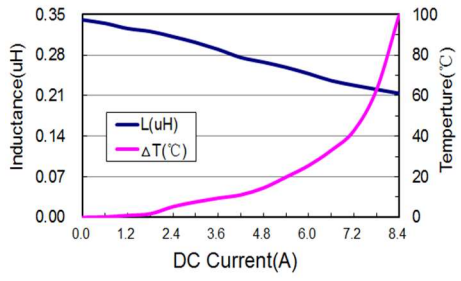

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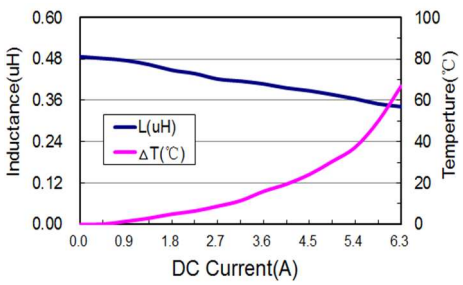

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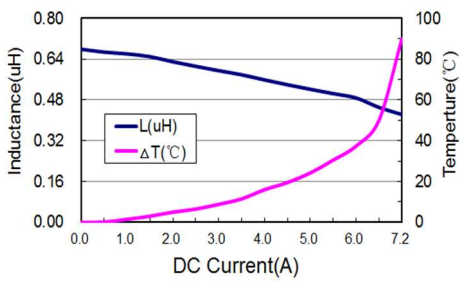

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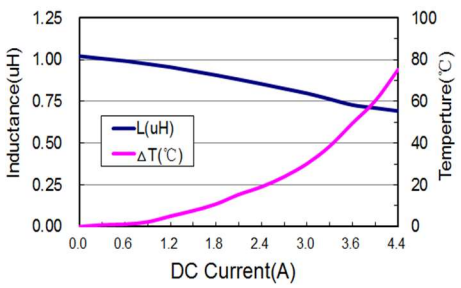

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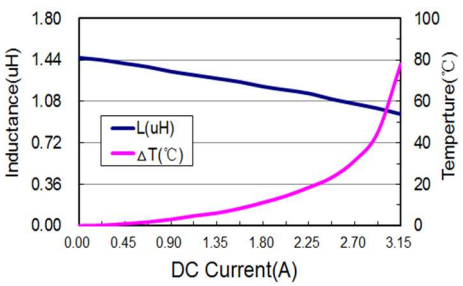

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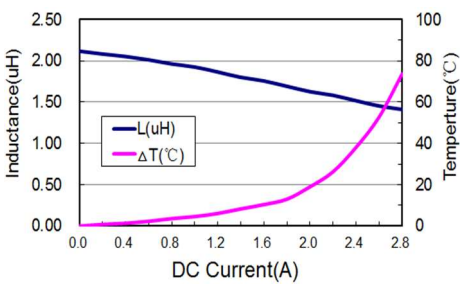
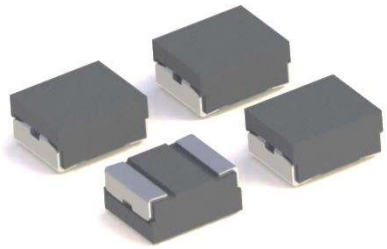


UMD2016/2520 P SERIES

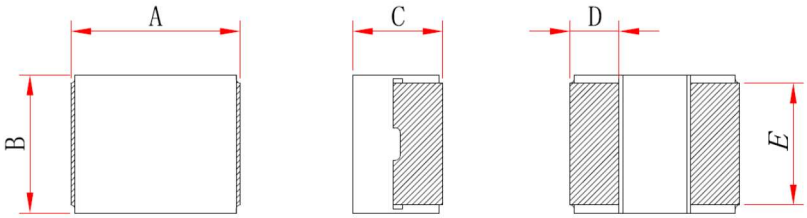
HIGH POWER INDUCTOR



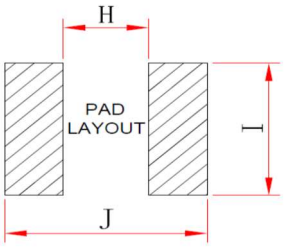
Applications:

. DC/DC converter for CPU in Notebook PC
. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..
. Thin type on-board power supply module for exchanger
. VRM for server

Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
UMD201610P	2.0±0.2	1.6±0.2	1.0 Max	0.5±0.2	1.44	0.9	1.6	2.3
UMD201612P	2.0±0.2	1.6±0.2	1.2 Max	0.5±0.2	1.44	0.9	1.6	2.3
UMD252010P	2.5±0.2	2.0±0.2	1.0 Max	0.6±0.2	1.84	1.2	2.0	2.8
UMD252012P	2.5±0.2	2.0±0.2	1.2 Max	0.6±0.2	1.84	1.2	2.0	2.8

Features :

. High performance (I sat) realized by metal dust core.
. Low profile: 2.0mm x 1.6mm x 1.0mm
2.0mm x 1.6mm x 1.2mm
2.5mm x 2.0mm x 1.0mm
2.5mm x 2.0mm x 1.2mm
. Low loss realized with low DCR
. Magnetically Shielded.
. RoHS compliant.

Product Identification:

UMD 201610 P – 1R0 M
(1) (2) (3) (4) (5)

(1) Series
(2) Dimensions :**201610** is size.
(3) Special code: Extra low DCR
(4) Inductance: **1R0** for 1.0uH.
(5) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical
. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △ T=40℃ .
. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source
. DCR: Milli-ohm meter

● UMD2016/2520 P series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR (mΩ)		I sat (A)		I rms (A)	
			Typ	Max	Typ	Max	Typ	Max
UMD201610P-R24M	0.24	20	17.0	20.5	6.0	5.4	4.7	4.2
UMD201610P-R33M	0.33	20	25.0	30.0	5.2	4.7	4.1	3.6
UMD201610P-R47M	0.47	20	32.0	38.0	5.0	4.4	3.8	3.3
UMD201610P-R68M	0.68	20	42.0	48.0	4.0	3.6	3.2	2.7
UMD201610P-1R0M	1.0	20	60.0	68.0	2.9	2.4	2.6	2.3
UMD201610P-1R5M	1.5	20	100	116	2.4	1.8	2.1	1.8
UMD201610P-2R2M	2.2	20	147	163	1.9	1.6	1.8	1.6
UMD201612P-R24M	0.24	20	15.0	19.0	6.5	5.6	5.2	4.4
UMD201612P-R33M	0.33	20	22.0	26.0	5.4	4.6	4.6	3.9
UMD201612P-R47M	0.47	20	25.0	30.0	4.5	3.8	4.0	3.4
UMD201612P-R68M	0.68	20	36.0	44.0	3.8	3.2	3.5	3.0
UMD201612P-1R0M	1.0	20	50.0	60.0	2.9	2.5	3.0	2.5
UMD201612P-1R5M	1.5	20	86.0	104	2.3	2.0	2.2	2.0
UMD201612P-2R2M	2.2	20	120	144	2.0	1.65	1.8	1.6
UMD252010P-R22M	0.22	20	15.0	17.0	8.5	7.0	6.5	5.5
UMD252010P-R33M	0.33	20	16.5	20.0	6.5	5.8	5.5	4.8
UMD252010P-R47M	0.47	20	23.0	29.0	5.5	5.0	4.1	3.6
UMD252010P-R68M	0.68	20	36.0	44.0	4.6	4.1	3.6	3.1
UMD252010P-1R0M	1.0	20	44.0	53.0	4.0	3.6	3.4	3.0
UMD252010P-1R5M	1.5	20	61.0	70.0	3.0	2.5	2.8	2.4
UMD252010P-2R2M	2.2	20	90.0	105	2.6	2.2	2.0	1.8
UMD252012P-R22M	0.22	20	11.0	13.0	8.5	7.0	10.0	8.0
UMD252012P-R33M	0.33	20	15.0	16.5	7.0	5.8	5.8	5.2
UMD252012P-R47M	0.47	20	20.0	25.0	6.0	5.0	4.8	4.2
UMD252012P-R68M	0.68	20	30.0	34.0	4.6	4.0	3.9	3.5
UMD252012P-1R0M	1.0	20	38.0	45.0	4.3	3.9	3.7	3.2
UMD252012P-1R5M	1.5	20	53.0	60.0	3.0	2.6	2.9	2.6
UMD252012P-2R2M	2.2	20	78.0	90.0	2.7	2.3	2.4	2.0
UMD252012P-3R3M	3.3	20	135.9	144	2.0	1.8	1.75	1.55

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

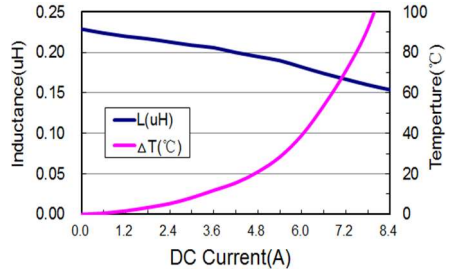
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

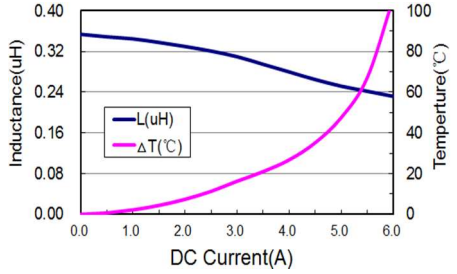
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical performance curves :

UMD201610P-R24M



UMD201610P-R33M



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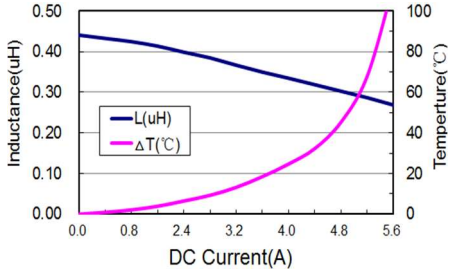
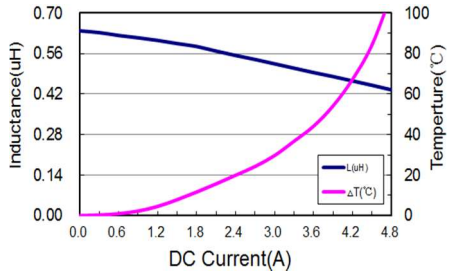


UMD201610P-R68M



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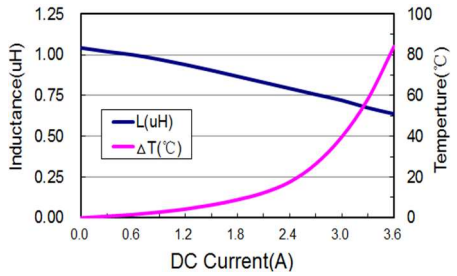
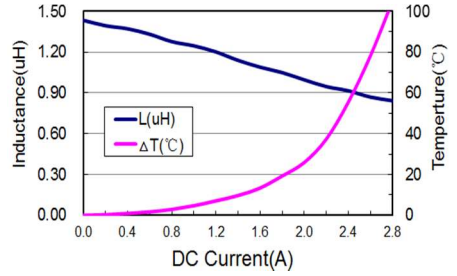
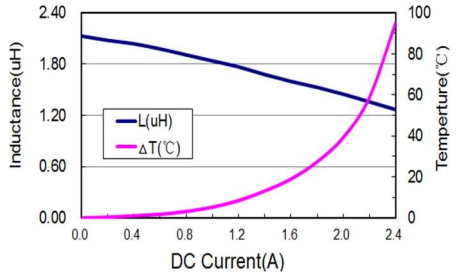


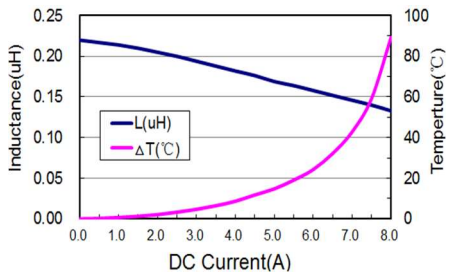
UMD201610P-1R5M



UMD201610P-2R2M



UMD201612P-R24M



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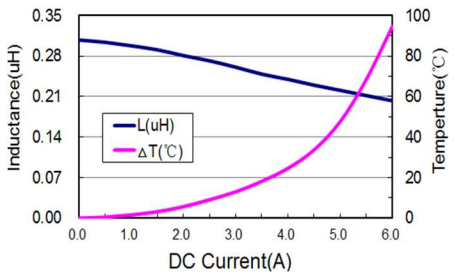

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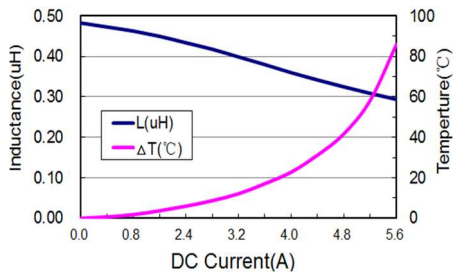
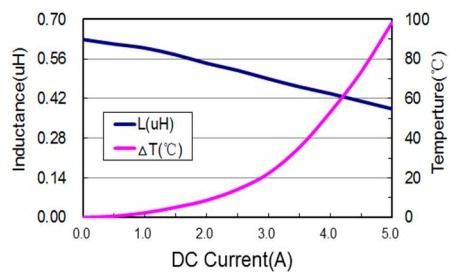


UMD201612P-R68M



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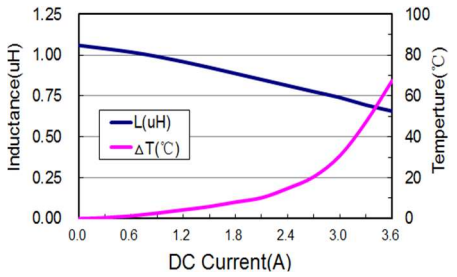

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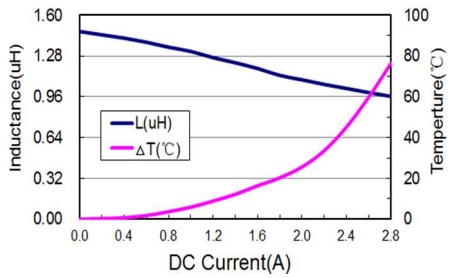

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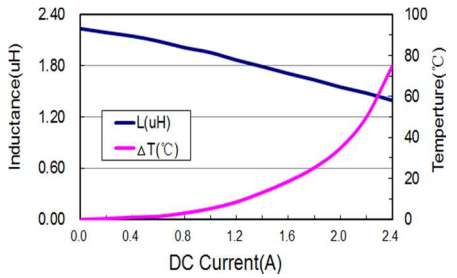
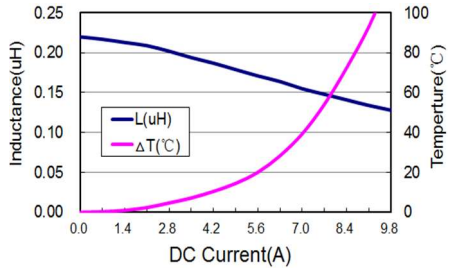


Typical performance curves :

UMD252010P-R22M



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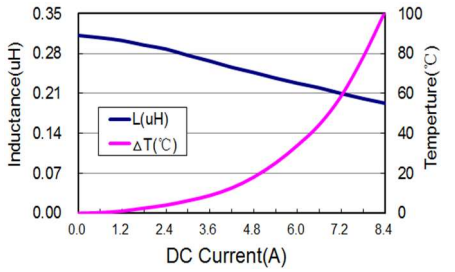

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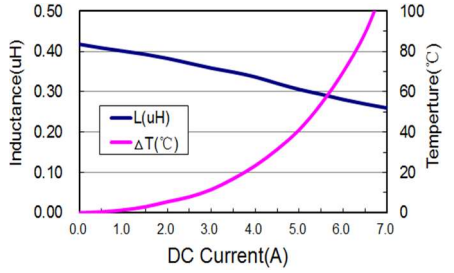
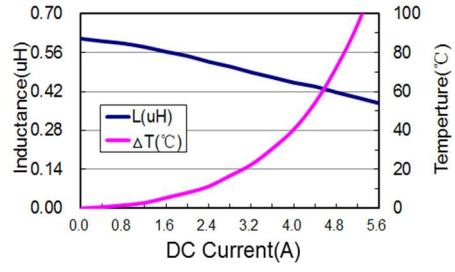


UMD252010P-R68M



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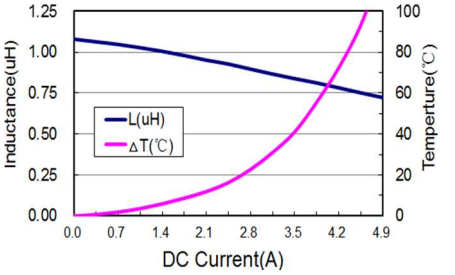

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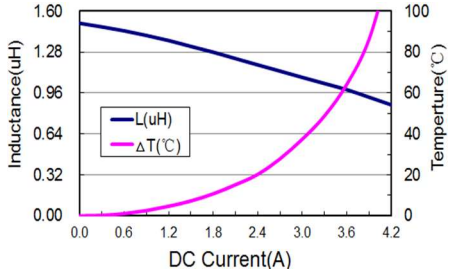

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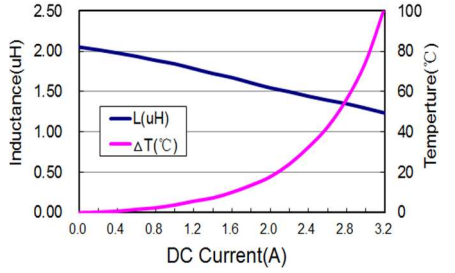
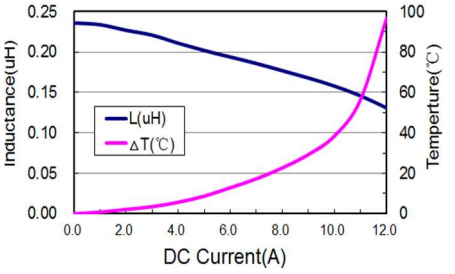


UMD252012P-R22M



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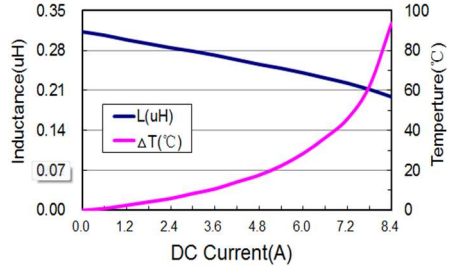

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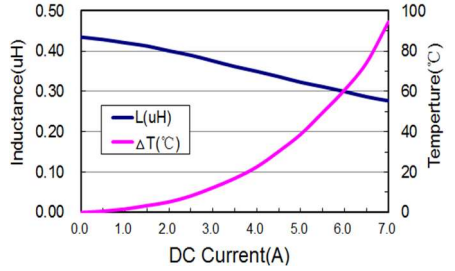
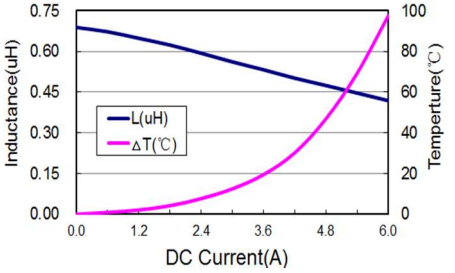


UMD252012P-R68M



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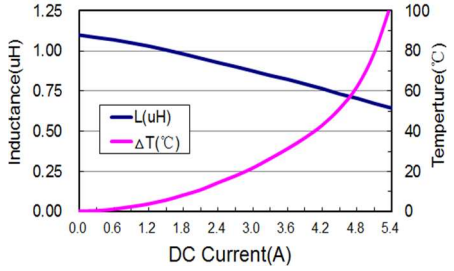

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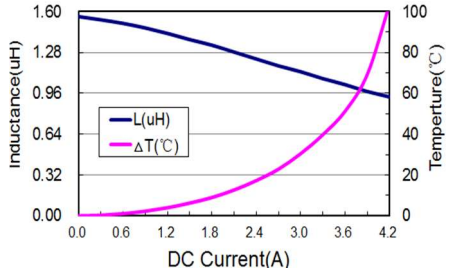

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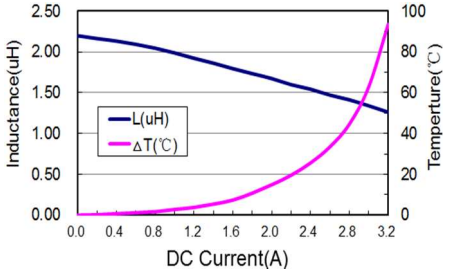
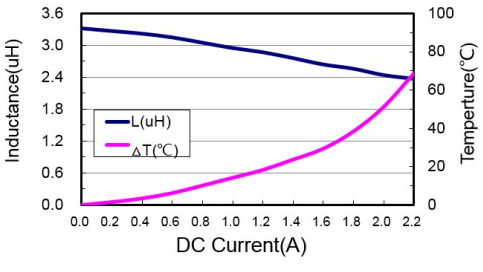
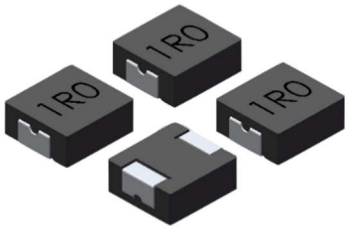


UMD252012P-3R3M



UMDE SERIES

HIGH POWER INDUCTOR



Applications:

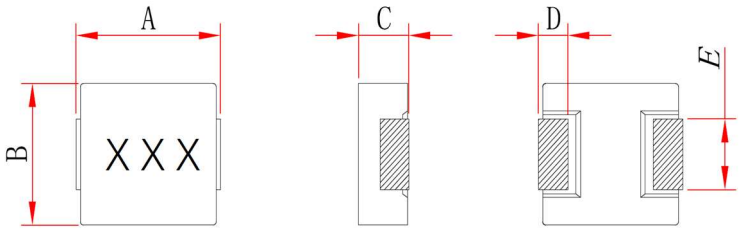
. DC/DC converter for CPU in Notebook PC

. Cellular phones, LCD displays, HDDs, DVCs, PDAs etc..

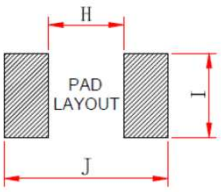
. Thin type on-board power supply module for exchanger

. VRM for server

Shape and Dimensions



Recommend Land Pattern Dimensions



Item	A	B	C	D	E	H	I	J
UMDE0412	4.4±0.2	4.0±0.2	1.0±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
UMDE0402	4.4±0.2	4.0±0.2	1.8±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95
UMDE0518	5.5±0.2	5.2±0.2	1.6±0.2	1.02±0.3	2.5±0.3	2.16	2.79	5.99
UMDE0612	7.1±0.2	6.6±0.2	1.0±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00
UMDE0618	7.1±0.2	6.6±0.2	1.6±0.2	1.60±0.3	3.2±0.3	3.70	3.50	8.00

Features :

. High performance (I sat) realized by metal dust core.

. Low profile: 1.2~2.0mm

. Low loss realized with low DCR

. Magnetically Shielded.

. RoHS compliant.

Product Identification:

UMDE 0412 – 1R0 M

(1) (2) (3) (4)

(1) Series.

(2) Dimensions: **0412** is size.

(3) Inductance: **1R0** for 1.0uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃.

. Operating Temperature : -55℃ to 125℃

Test equipments :

L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bais current source.

DCR tested by Milli-ohm meter.

● UMDE04 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMDE0412-R47M	0.47	20	19.0	24.0	6.8	6.0	5.4	5.0
UMDE0412-R68M	0.68	20	25.0	30.0	6.7	5.5	5.1	4.7
UMDE0412-1R0M	1.0	20	35.0	42.0	5.3	4.5	3.8	3.4
UMDE0412-2R2M	2.2	20	68.0	80.0	3.0	2.4	2.8	2.2
UMDE0412-4R7M	4.7	20	145	168	2.2	1.8	2.0	1.6
UMDE0402-R33M	0.33	20	6.5	8.2	11.0	9.0	12.0	10.5
UMDE0402-R47M	0.47	20	9.8	12.0	9.5	7.6	10.0	8.0
UMDE0402-4R7M	4.7	20	57.0	75.0	3.4	2.9	3.2	2.9
UMDE0402-100M	10.0	20	172	210	2.2	1.9	2.2	1.8

Please contact us if you have any other requirement on product performance.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition: 1MHz, 1.0 V.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

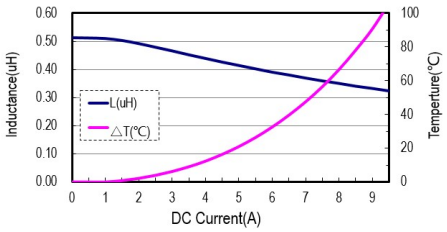
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

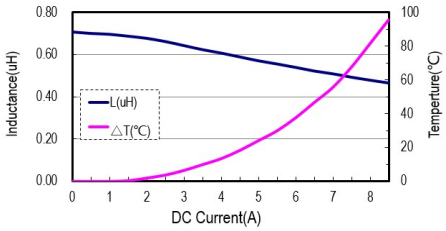
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:

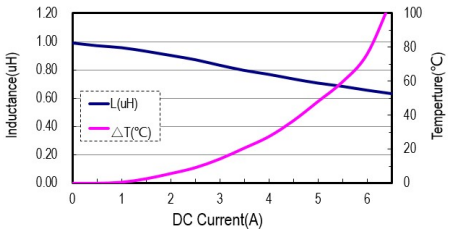
UMDE0412-R47M



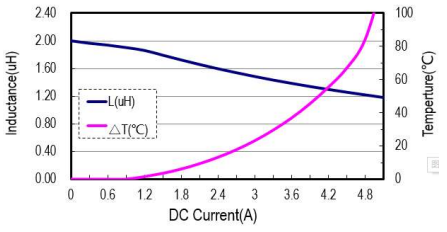
UMDE0412-R68M



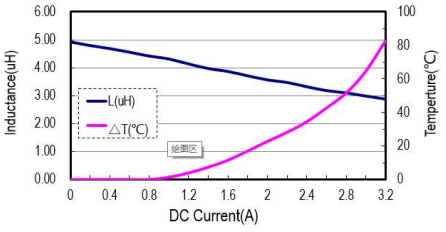
UMDE0412-1R0M



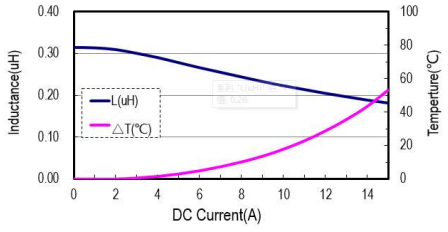
UMDE0412-2R2M



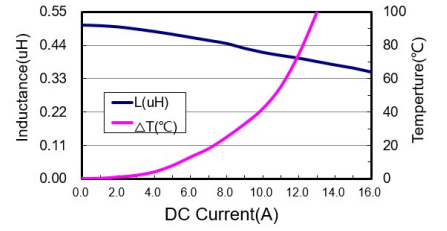
UMDE0412-4R7M



UMDE0402-R33M



UMDE0402-R47M



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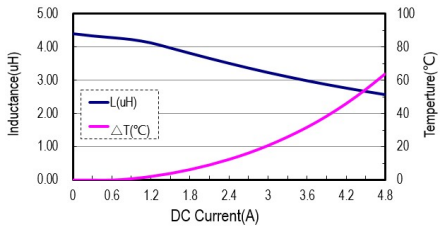
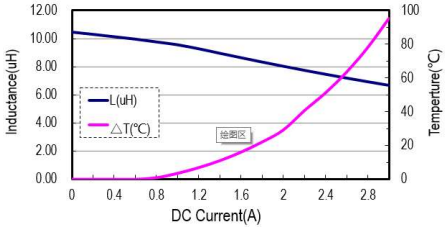


UMDE0402-100M



● UMDE05 SERIES

Part No.	Inductance L (uH)	Tolerance (±%)	DCR (mΩ)		I sat (A)		I rms (A)	
			Typ	Max	Typ	Max	Typ	Max
UMDE0518-R47M	0.47	20	8.3	9.0	12.0	9.0	10.5	9.0
UMDE0518-1R0M	1.0	20	15.0	17.0	9.0	7.2	8.0	7.0
UMDE0518-2R2M	2.2	20	30.0	35.0	6.0	4.5	5.0	4.5
UMDE0518-4R7M	4.7	20	78.0	85.0	4.0	3.0	3.5	3.0
UMDE0518-100M	10	20	122	149	2.5	2.0	2.5	2.2

Please contact us if you have any other requirement on product performance.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition: 1MHz, 1.0 V.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

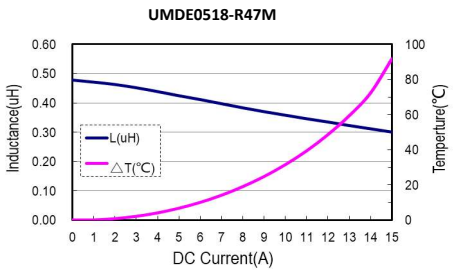
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

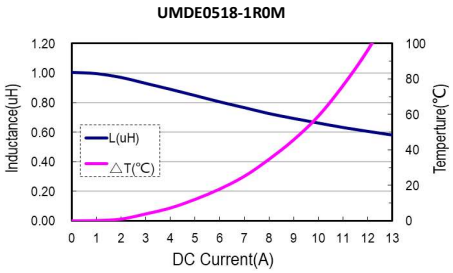
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

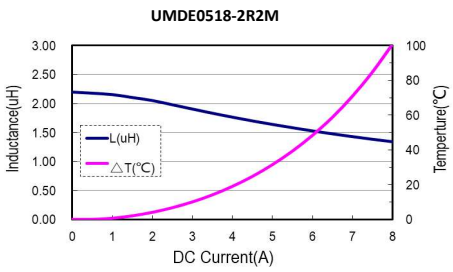
Note 4: Operating temperature range includes self-temperature rise.

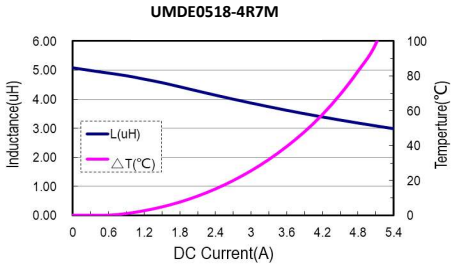
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

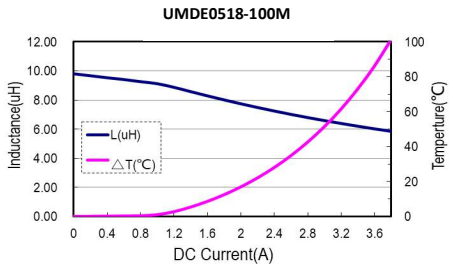
● TYPICAL PERFORMANCE CURVES











● UMDE06 SERIES

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ	Max	Typ	Max	Typ	Max
UMDE0612-R47M	0.47	20	15.0	17.0	11.0	9.0	8.0	7.0
UMDE0612-1R0M	1.0	20	25.0	29.0	7.5	6.0	6.0	5.2
UMDE0612-1R5M	1.5	20	31.0	37.0	6.0	5.0	5.0	4.5
UMDE0612-2R2M	2.2	20	51.0	58.0	5.0	4.2	4.0	3.5
UMDE0612-100M	10.0	20	230	270	2.6	2.2	2.0	1.7
UMDE0618-R47M	0.47	20	7.8	8.4	18.0	13.5	11.5	9.5
UMDE0618-1R0M	1.0	20	13.0	16.0	12.0	9.5	8.5	7.0
UMDE0618-2R2M	2.2	20	32.0	35.0	8.0	6.0	5.5	4.8
UMDE0618-3R3M	3.3	20	41.0	50.0	6.5	5.2	4.5	4.0
UMDE0618-100M	10.0	20	132	155	4.0	3.0	2.3	2.0

Please contact us if you have any other requirement on product performance.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition: 1MHz, 1.0 V.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

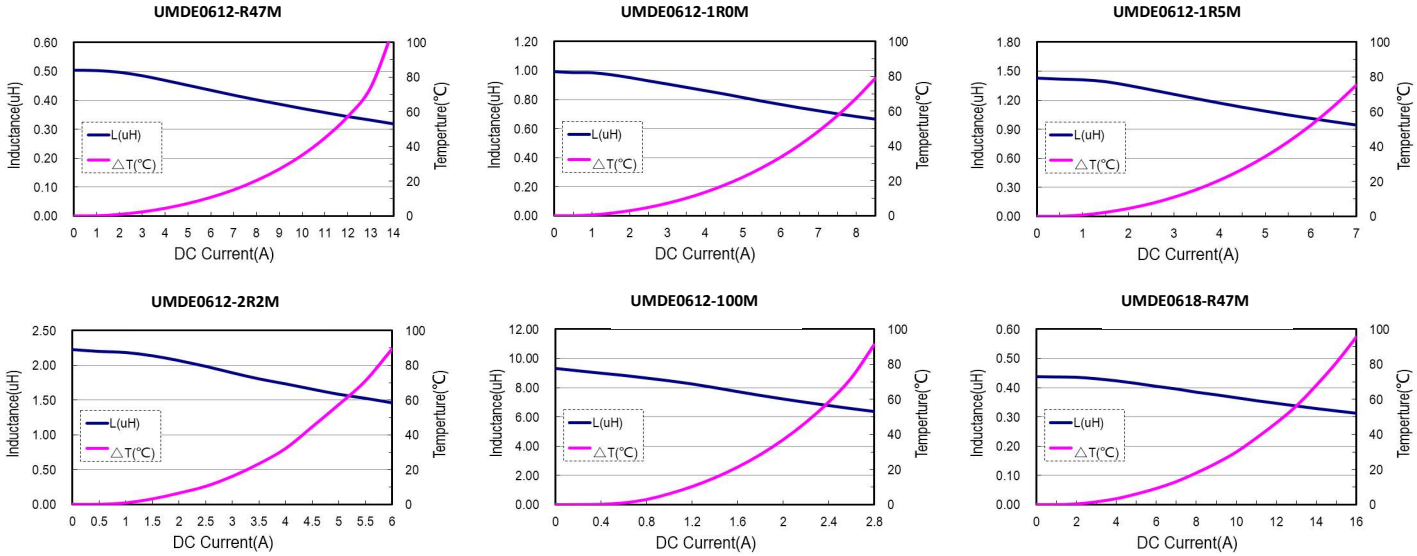
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

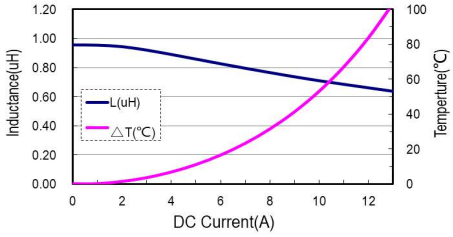
Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

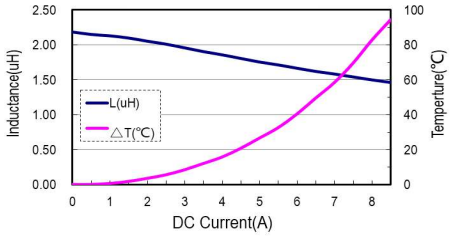
● TYPICAL PERFORMANCE CURVES



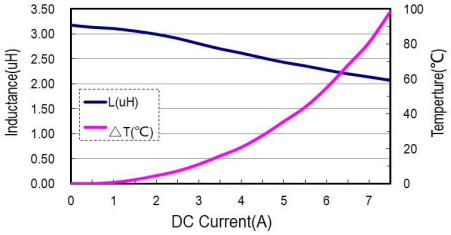
HPIF0618-1R0M



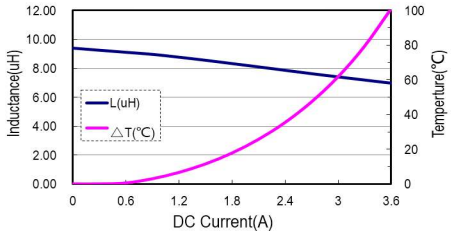
UMDE0612-2R2M



UMDE0612-3R3M

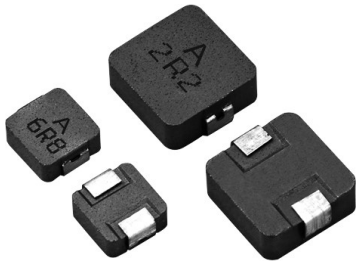


UMDE0612-100M



UUMD A SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.



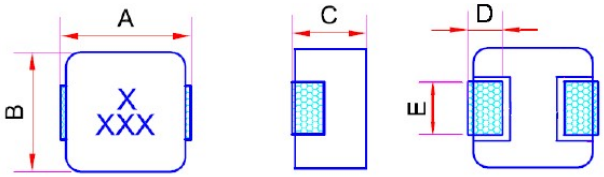
Applications :

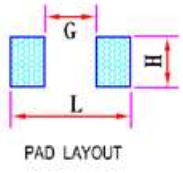
. PDA/Notebook/Desktop, and server applications.

. DC/DC converters in distributed power systems.

. DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions (Dimensions are in mm) :





PAD LAYOUT

Item	A Max.	B Max.	C Max.	D	E	G	H	L
UUMDAS0603	7.3	6.8	3.0	1.6±0.3	By each	3.7	3.5	8.0
UUMDA0603	7.8	7.0	3.2	1.6±0.3	By each	3.7	3.5	8.0
UUMDA0604	7.8	7.0	4.2	1.6±0.3	By each	3.7	3.5	8.0
UUMDA1004	11.8	10.5	4.2	2.3±0.3	3.0±0.5	5.4	4.5	12.4
UUMDA1005	11.8	10.5	5.0	2.3±0.3	3.0±0.5	5.4	4.5	12.4
UUMDA1203	13.9	13.5	3.7	2.3±0.3	3.0±0.5	8.0	5.0	14.5
UUMDA1205	13.9	13.5	5.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5
UUMDA1207	13.9	13.5	7.0	2.3±0.3	3.0±0.5	8.0	5.0	14.5

Features :

. Low profile and low DCR.

. Shielded construction.

. handles high transient current spikes without saturation

. **A** type frequency up to **1MHz.**

. Ultra Low buzz noise, due to composite construction.

. RoHS compliant.

Product Identification :

UUMD A S 0603 – 2R2 M

(1) (2) (3) (4) (5)

(1) Series

(2) Style : **A**-Powder Type **S**-small Size.

(3) Dimensions : **0603** is size.

(4) Inductance: **2R2** for **2.2** uH.

(5) Inductance tolerance: **M**: ± 20%.

Characteristics :

. Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

. Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

. Operating Temperature : -55℃ to 125℃.

Test equipments :

. L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

. DCR tested by Milli-ohm meter.

. Electrical specifications at 25℃.

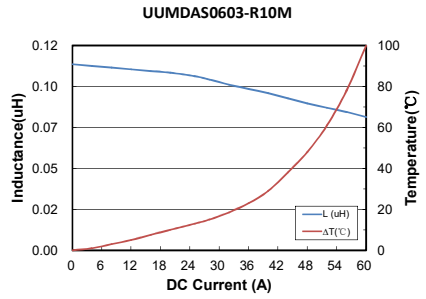
Handling and precautions :

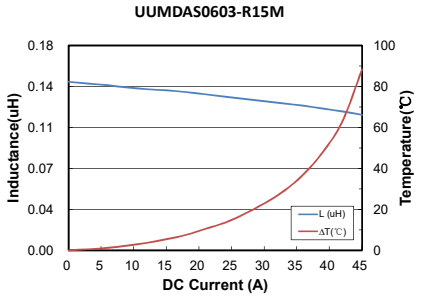
. Please contact us before cleaning this product.

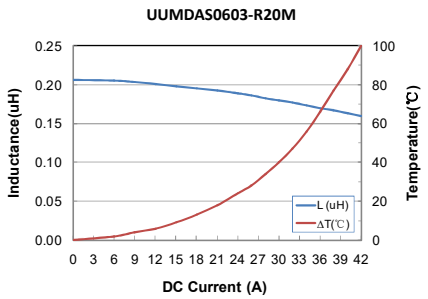
● UUMDAS0603 series

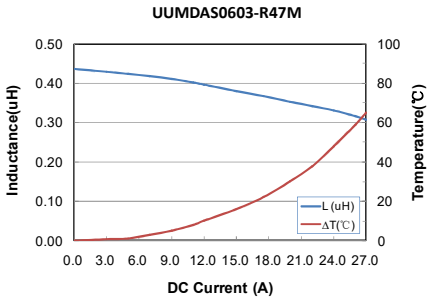
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDAS0603-R10M	0.10	0.9	1.7	42.0	32.0	2.0
UUMDAS0603-R15M	0.15	1.5	2.5	38.0	26.0	2.0
UUMDAS0603-R20M	0.20	1.3	3.0	36.0	24.0	2.0
UUMDAS0603-R47M	0.47	3.6	4.2	26.0	17.5	3.0
UUMDAS0603-R56M	0.56	4.3	4.8	24.0	16.5	3.0
UUMDAS0603-1R0M	1.0	7.8	10.0	16.0	11.0	3.0
UUMDAS0603-1R5M	1.5	12.7	15.0	14.0	9.0	3.0
UUMDAS0603-1R8M	1.8	14.0	20.0	12.0	8.0	3.0
UUMDAS0603-2R2M	2.2	15.2	20.0	12.0	8.0	3.0
UUMDAS0603-3R3M	3.3	23.1	30.0	10.0	6.0	3.0
UUMDAS0603-4R7M	4.7	37.0	40.0	6.5	5.5	3.0
UUMDAS0603-6R8M	6.8	52.0	60.0	6.0	4.5	3.0
UUMDAS0603-8R2M	8.2	63.5	68.0	5.5	4.0	3.0
UUMDAS0603-100M	10.0	78.0	105	5.0	3.0	3.0

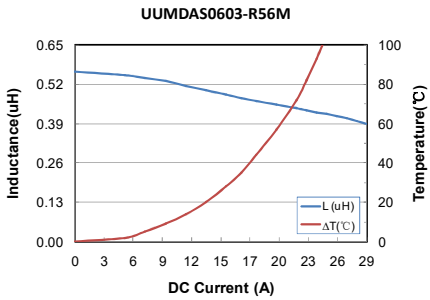
Typical performance curves :

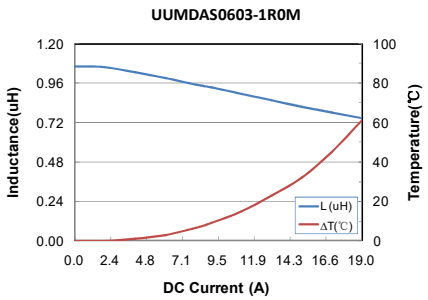


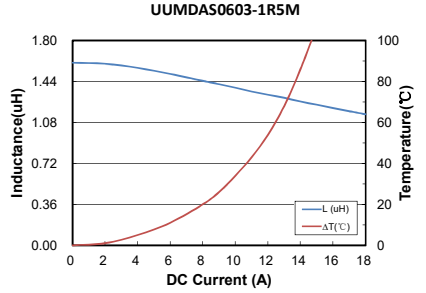


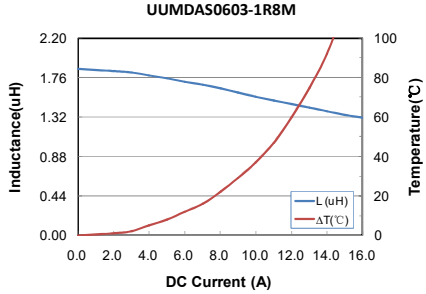


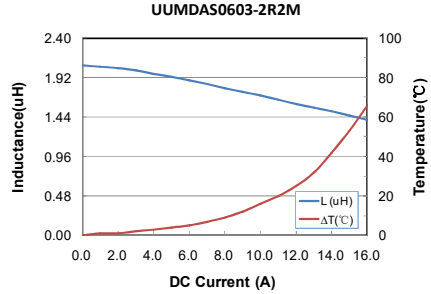




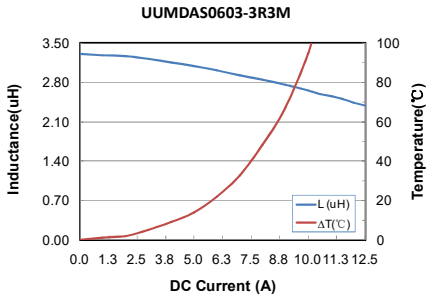


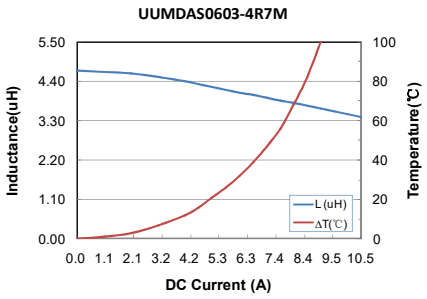


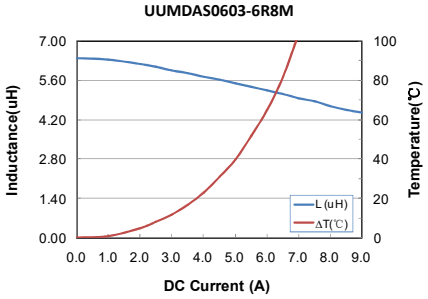


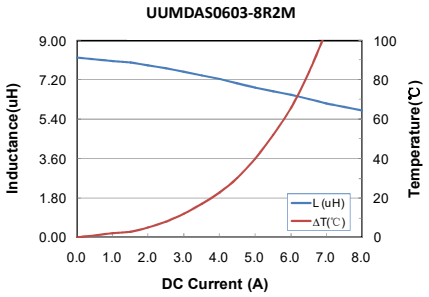


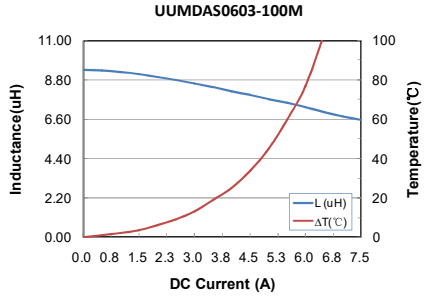
Typical performance curves :









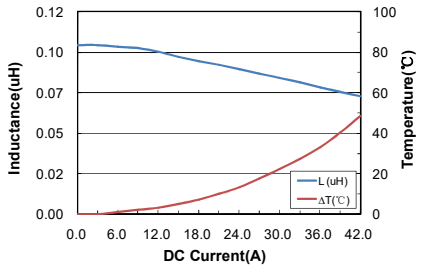


● UUMDA0603 series

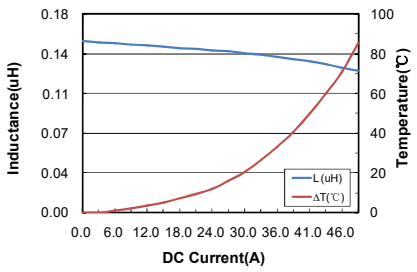
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDA0603-R10M	0.10	1.0	1.7	42.0	32.5	2.0
UUMDA0603-R15M	0.15	1.4	2.5	38.0	26.0	2.0
UUMDA0603-R20M	0.20	1.4	3.0	36.0	24.0	2.0
UUMDA0603-R22M	0.22	2.3	2.8	36.0	23.0	2.0
UUMDA0603-R33M	0.33	2.8	3.9	30.0	20.0	3.0
UUMDA0603-R47M	0.47	3.6	4.2	26.0	17.5	3.0
UUMDA0603-R56M	0.56	4.5	4.8	24.0	16.5	3.0
UUMDA0603-R68M	0.68	5.0	5.5	23.0	15.5	3.0
UUMDA0603-R82M	0.82	7.5	8.0	20.0	13.0	3.0
UUMDA0603-1R0M	1.0	7.8	10.0	16.0	11.0	3.0
UUMDA0603-1R5M	1.5	10.9	15.0	14.0	9.0	3.0
UUMDA0603-1R8M	1.8	12.9	18.0	12.0	8.0	3.0
UUMDA0603-2R2M	2.2	17.1	20.0	12.0	8.0	3.0
UUMDA0603-3R3M	3.3	26.5	30.0	10.0	6.0	3.0
UUMDA0603-4R7M	4.7	37.6	40.0	6.5	5.5	3.0
UUMDA0603-5R6M	5.6	46.0	50.0	6.0	5.0	3.0
UUMDA0603-6R8M	6.8	50.5	60.0	6.0	4.5	3.0
UUMDA0603-8R2M	8.2	62.5	68.0	5.5	4.0	3.0
UUMDA0603-100M	10.0	101	105	5.0	3.0	3.0

Typical performance curves :

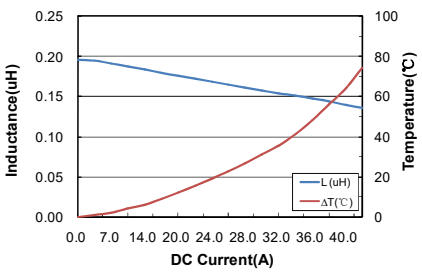
UUMDA0603-R10M



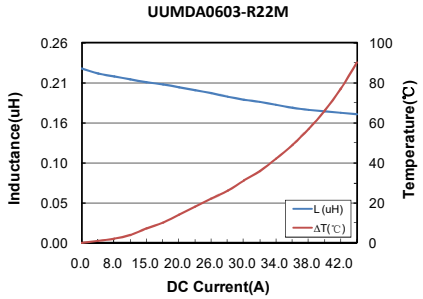
UUMDA0603-R15M



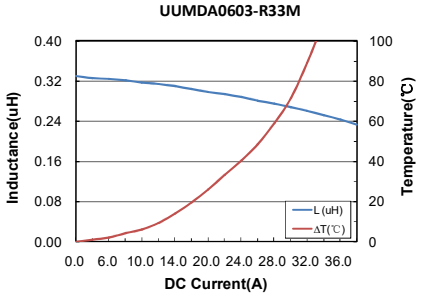
UUMDA0603-R20M



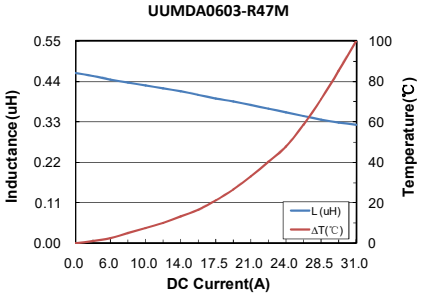
UUMDA0603-R22M



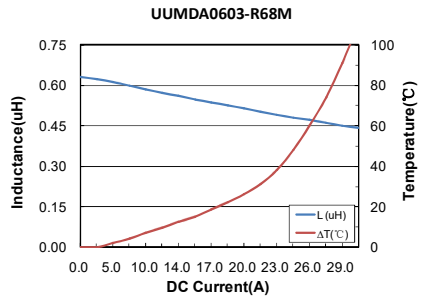
UUMDA0603-R33M



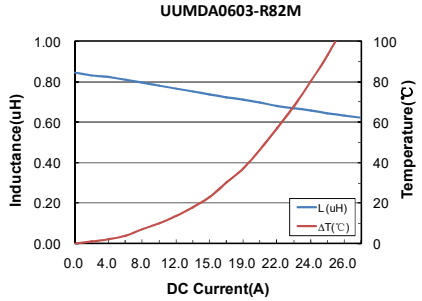
UUMDA0603-R47M



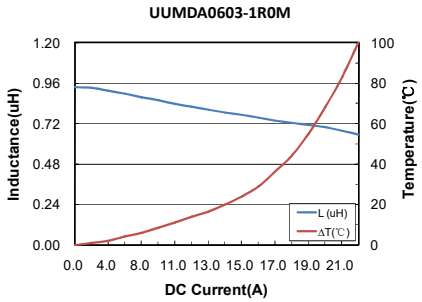
UUMDA0603-R68M



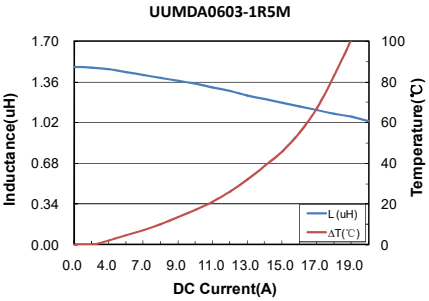
UUMDA0603-R82M



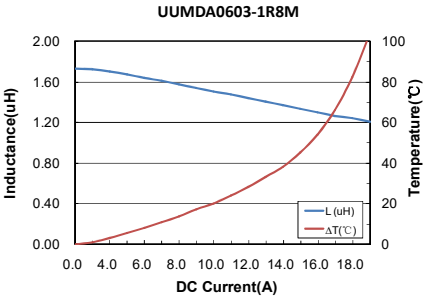
UUMDA0603-1R0M



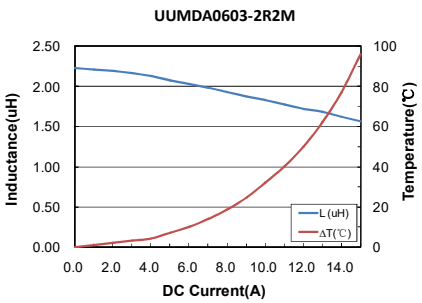
UUMDA0603-1R5M



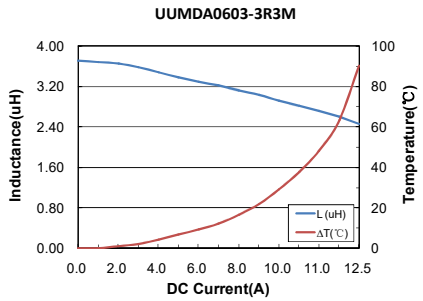
UUMDA0603-1R8M



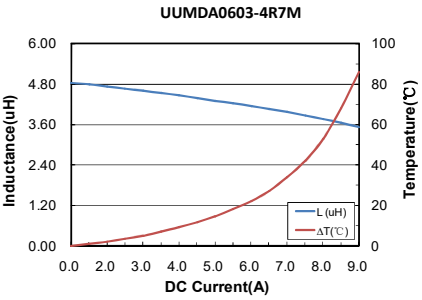
UUMDA0603-2R2M



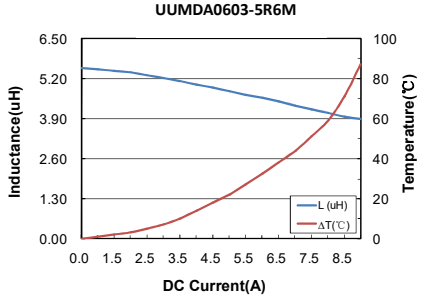
UUMDA0603-3R3M

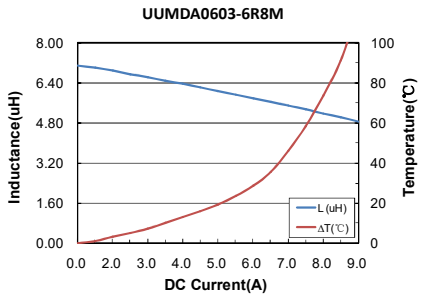


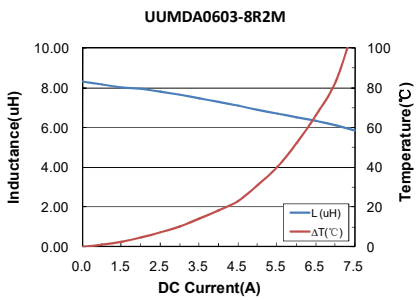
UUMDA0603-4R7M

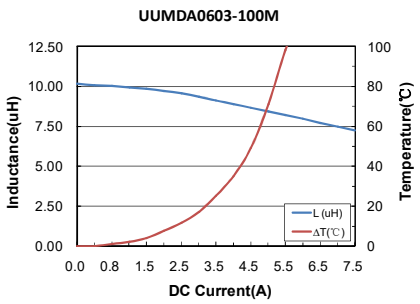


UUMDA0603-5R6M





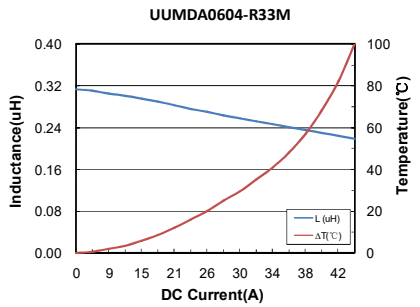


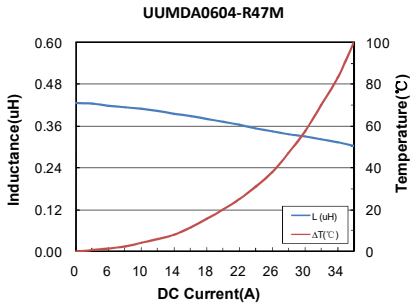


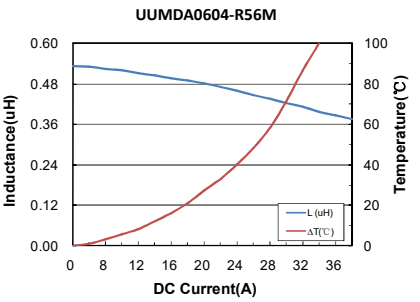
● UUMDA0604 series

Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDA0604-R33M	0.33	1.9	2.1	32.0	25.0	2.0
UUMDA0604-R47M	0.47	2.22	2.5	30.0	20.0	2.0
UUMDA0604-R56M	0.56	2.8	3.0	29.0	19.0	2.0
UUMDA0604-R68M	0.68	3.3	3.8	28.0	17.0	2.0
UUMDA0604-R82M	0.82	4.85	5.2	24.0	16.0	3.0
UUMDA0604-1R0M	1.0	5.3	5.8	20.0	15.0	3.0
UUMDA0604-1R2M	1.2	7.2	7.6	19.0	15.0	3.0
UUMDA0604-1R5M	1.5	7.8	8.4	18.0	14.0	3.0
UUMDA0604-1R8M	1.8	8.5	8.8	15.0	13.0	3.0
UUMDA0604-2R2M	2.2	11.2	16.0	14.0	12.0	3.0
UUMDA0604-3R3M	3.3	16.6	18.0	13.0	10.0	3.0
UUMDA0604-4R7M	4.7	20.2	21.0	9.0	7.0	3.0
UUMDA0604-5R6M	5.6	28.7	30.0	7.0	5.5	3.0
UUMDA0604-6R8M	6.8	28.7	30.0	7.0	5.5	3.0
UUMDA0604-8R2M	8.2	33.5	36.0	6.5	4.5	3.0
UUMDA0604-100M	10.0	53.1	60.0	5.0	4.5	3.0

Typical performance curves :

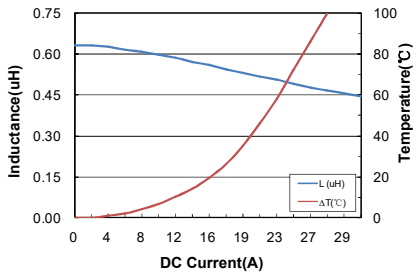




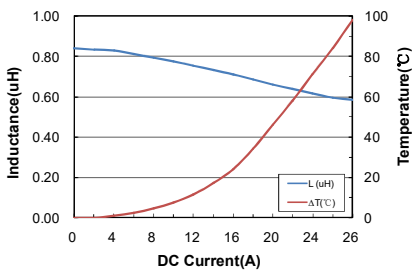


Typical performance curves :

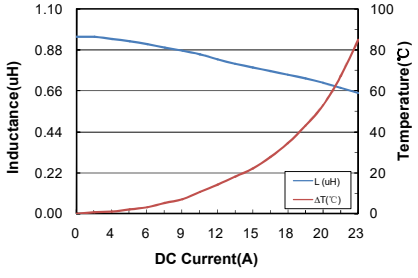
UUMDA0604-R68M



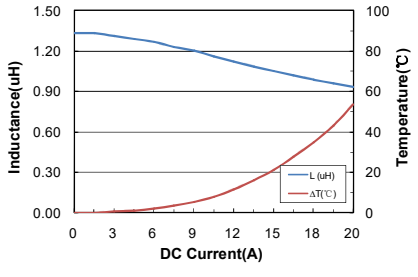
UUMDA0604-R82M



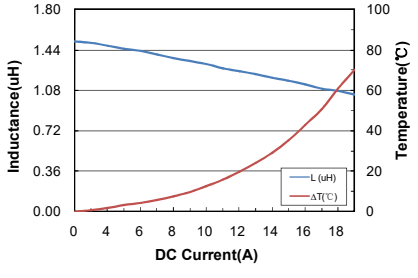
UUMDA0604-1R0M



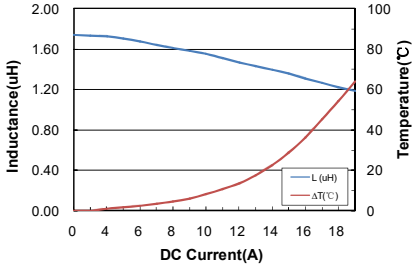
UUMDA0604-1R2M



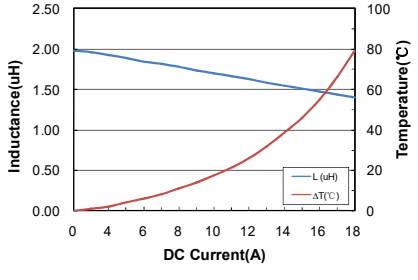
UUMDA0604-1R5M



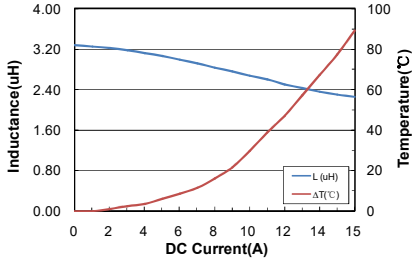
UUMDA0604-1R8M



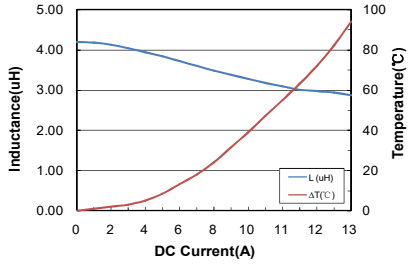
UUMDA0604-2R2M



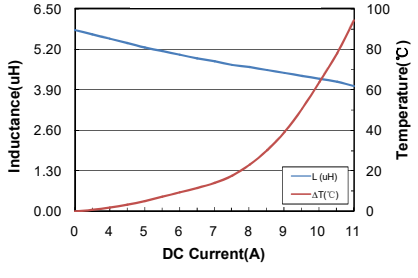
UUMDA0604-3R3M



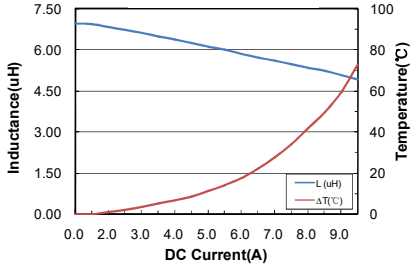
UUMDA0604-4R7M



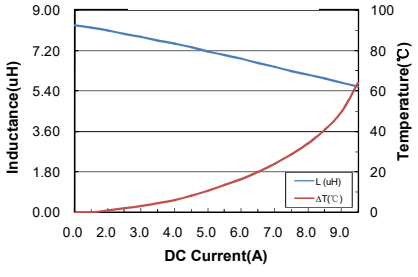
UUMDA0604-5R6M



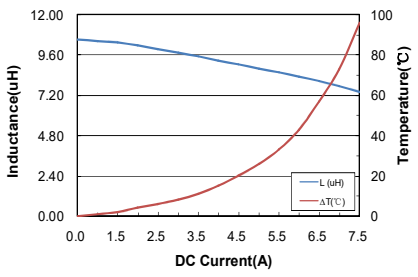
UUMDA0604-6R8M



UUMDA0604-8R2M



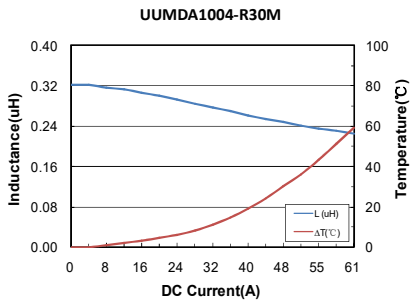
UUMDA0604-100M

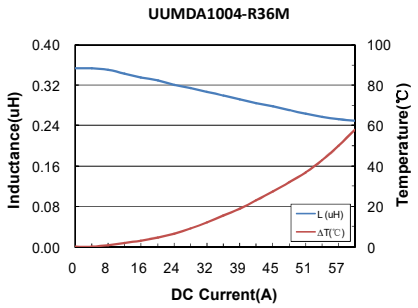


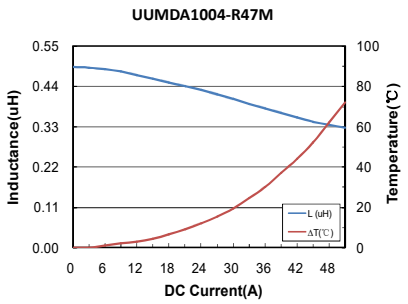
● UUMDA1004 series

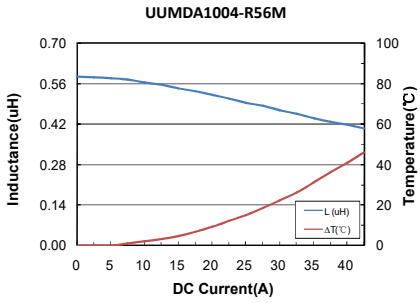
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDA1004-R30M	0.30	1.0	1.4	40.0	28.0	3.0
UUMDA1004-R36M	0.36	1.0	1.4	40.0	28.0	3.0
UUMDA1004-R47M	0.47	1.4	1.6	38.0	26.0	3.0
UUMDA1004-R56M	0.56	1.5	1.9	36.0	25.0	3.0
UUMDA1004-R68M	0.68	1.7	2.4	32.0	23.0	3.0
UUMDA1004-R88M	0.88	2.4	3.0	30.0	21.0	3.0
UUMDA1004-1R0M	1.0	2.7	3.5	28.0	20.0	3.0
UUMDA1004-1R5M	1.5	7.1	7.5	20.0	12.0	3.0
UUMDA1004-2R2M	2.2	7.5	8.56	16.5	11.5	3.0
UUMDA1004-3R3M	3.3	9.7	11.8	14.0	10.0	3.0
UUMDA1004-4R7M	4.7	12.5	13.5	13.0	8.0	3.0
UUMDA1004-5R6M	5.6	15.5	16.0	12.0	7.0	3.0
UUMDA1004-6R8M	6.8	21.3	24.0	9.50	7.0	3.0
UUMDA1004-8R2M	8.2	29.1	32.5	8.00	5.0	3.0
UUMDA1004-100M	10.0	31.5	35.0	7.00	5.0	3.0

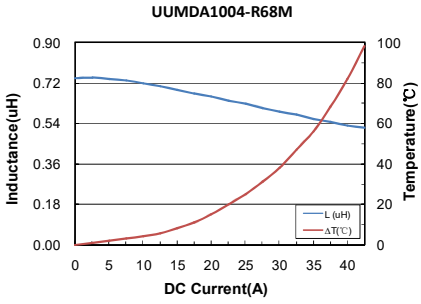
Typical performance curves :

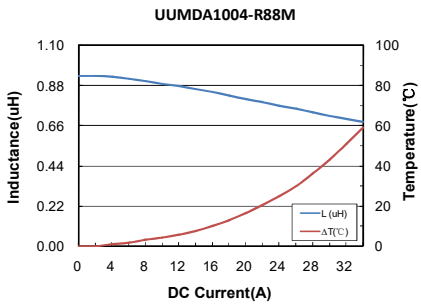


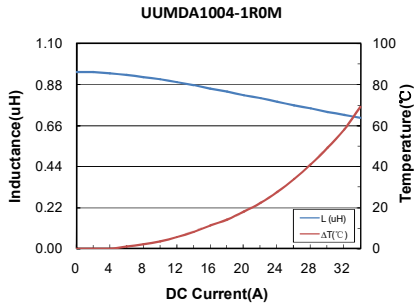


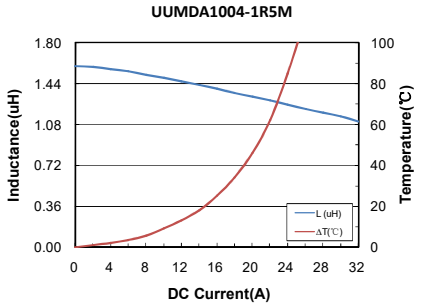


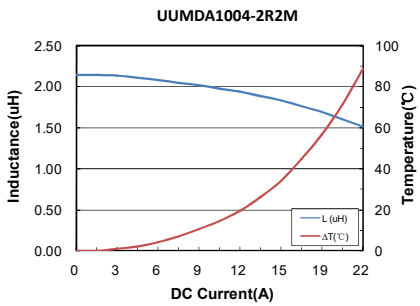




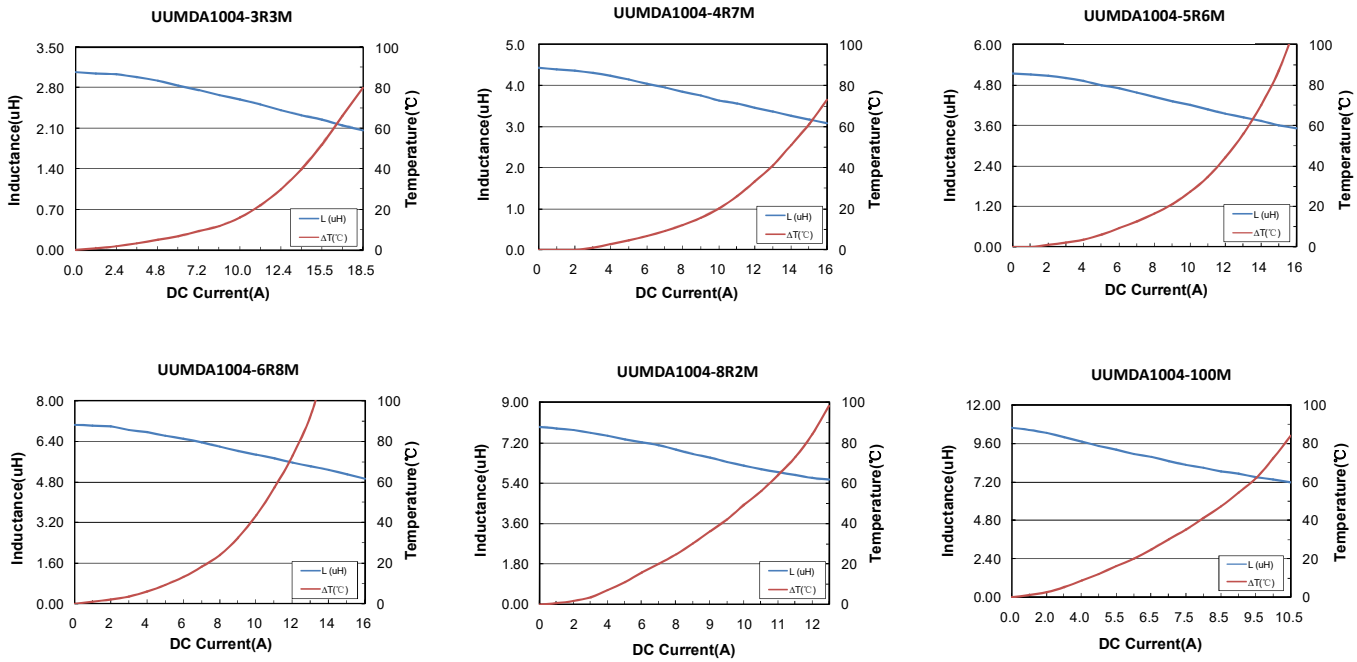








Typical performance curves :

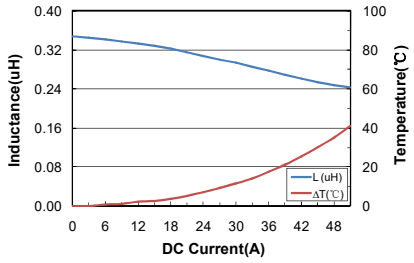


● UUMDA1005 series

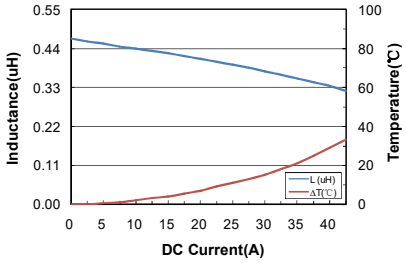
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDA1005-R36M	0.36	0.7	0.92	40.0	35.0	3.0
UUMDA1005-R47M	0.47	0.92	1.04	38.0	32.0	3.0
UUMDA1005-R56M	0.56	1.1	1.21	36.0	30.0	3.0
UUMDA1005-R60M	0.60	1.25	1.5	32.0	29.2	3.0
UUMDA1005-R68M	0.68	1.35	1.5	32.0	29.2	3.0
UUMDA1005-R82M	0.82	1.55	1.86	30.0	26.0	3.0
UUMDA1005-1R0M	1.0	2.1	2.53	28.0	24.0	3.0
UUMDA1005-1R5M	1.5	2.7	3.02	22.0	20.0	3.0
UUMDA1005-1R8M	1.8	3.5	4.03	20.0	18.0	3.0
UUMDA1005-2R2M	2.2	4.1	4.6	20.0	17.0	3.0
UUMDA1005-2R7M	2.7	7.3	8.5	18.0	14.0	3.0
UUMDA1005-3R3M	3.3	8.2	10.0	15.0	12.0	3.0
UUMDA1005-4R7M	4.7	9.2	12.0	13.0	10.0	3.0
UUMDA1005-5R6M	5.6	14.3	16.0	12.0	9.0	3.0
UUMDA1005-6R8M	6.8	16.0	20.0	10.0	8.0	3.0
UUMDA1005-8R2M	8.2	22.4	24.0	9.0	7.5	3.0
UUMDA1005-100M	10.0	24.7	28.0	8.0	7.0	3.0

Typical performance curves :

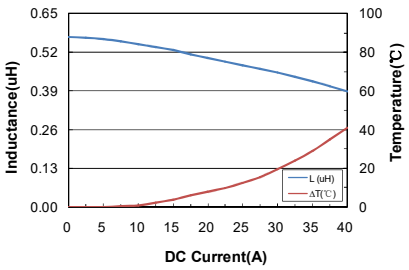
UUMDA1005-R36M



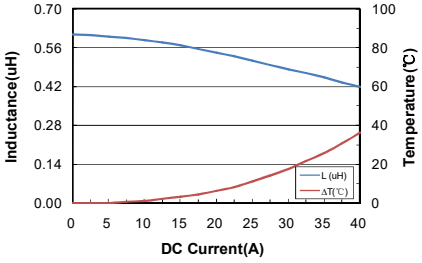
UUMDA1005-R47M



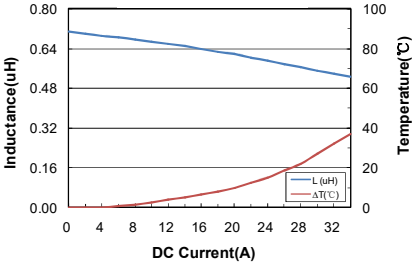
UUMDA1005-R56M



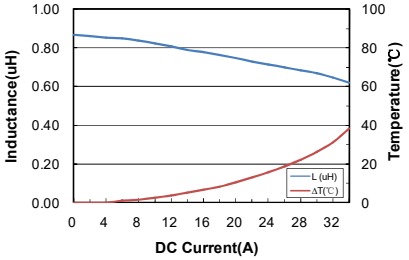
UUMDA1005-R60M



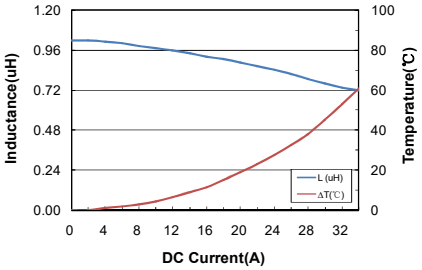
UUMDA1005-R68M



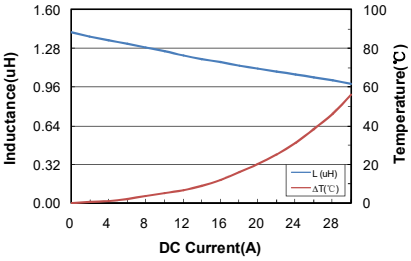
UUMDA1005-R82M



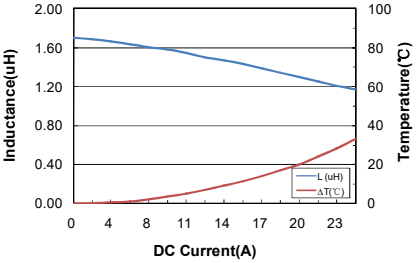
UUMDA1005-1R0M



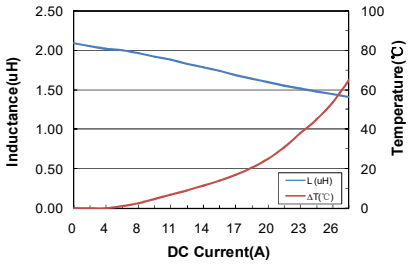
UUMDA1005-1R5M



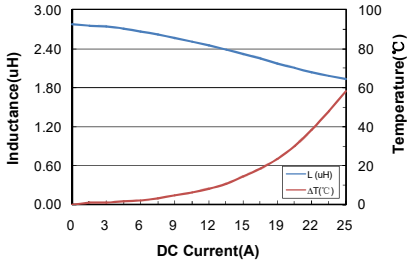
UUMDA1005-1R8M



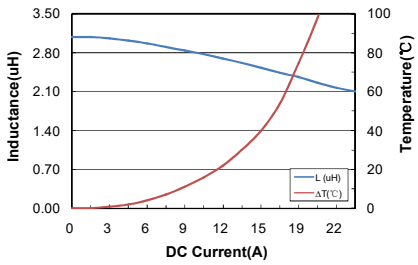
UUMDA1005-2R2M



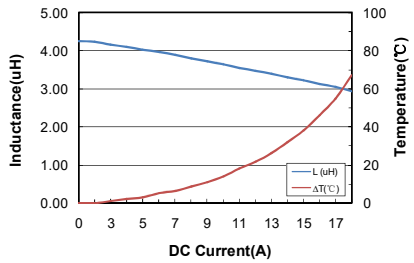
UUMDA1005-2R7M



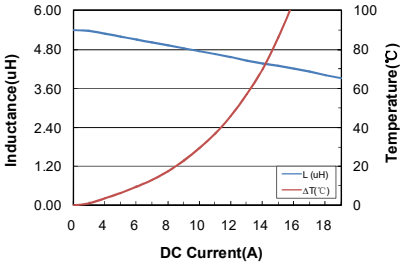
UUMDA1005-3R3M



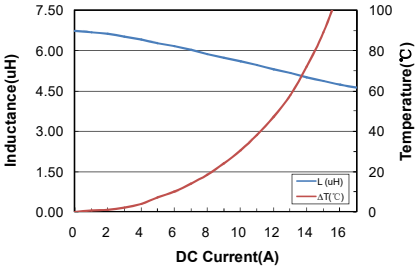
UUMDA1005-4R7M



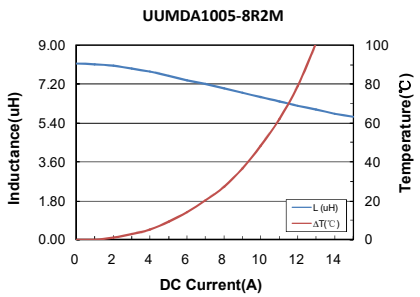
UUMDA1005-5R6M

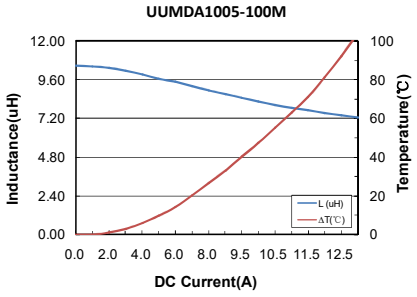


UUMDA1005-6R8M



Typical performance curves :

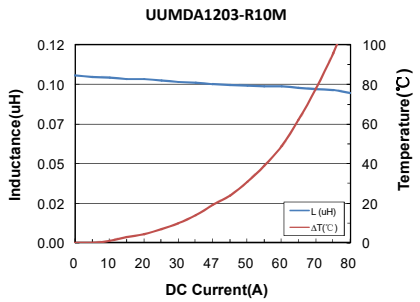


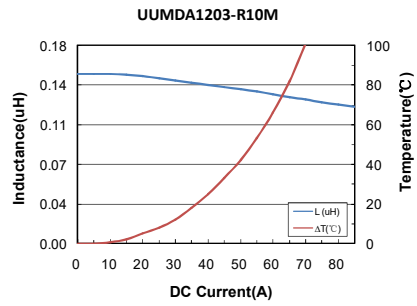


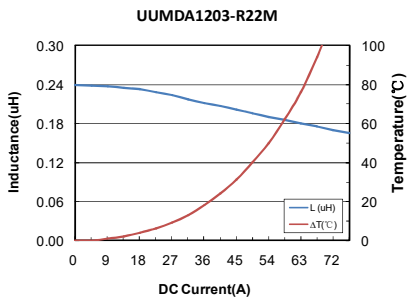
● UUMDA1203 series

Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDA1203-R10M	0.10	0.6	0.96	56.0	43.0	3.0
UUMDA1203-R15M	0.15	0.9	1.2	50.0	41.0	3.0
UUMDA1203-R22M	0.22	0.82	1.3	50.0	38.5	3.0
UUMDA1203-R33M	0.33	1.25	1.5	50.0	36.5	3.0
UUMDA1203-R47M	0.47	1.3	2.0	44.0	32.0	3.0
UUMDA1203-R60M	0.60	2.2	2.5	42.0	29.0	3.0
UUMDA1203-R68M	0.68	2.45	2.5	40.0	28.0	3.0
UUMDA1203-R82M	0.82	2.3	3.0	38.0	25.0	3.0
UUMDA1203-1R0M	1.0	3.2	3.5	36.0	24.0	3.0
UUMDA1203-1R5M	1.5	5.1	5.5	28.0	19.0	3.0
UUMDA1203-1R8M	1.8	5.7	7.0	24.0	16.5	3.0
UUMDA1203-2R2M	2.2	6.7	8.0	20.0	16.0	3.0
UUMDA1203-3R3M	3.3	9.7	12.0	18.0	12.0	3.0
UUMDA1203-4R7M	4.7	14.0	15.0	16.0	10.0	3.0
UUMDA1203-5R6M	5.6	16.7	18.0	14.0	9.5	3.0
UUMDA1203-6R8M	6.8	17.5	22.0	13.0	9.0	3.0
UUMDA1203-8R2M	8.2	25.5	28.0	11.0	8.0	3.0
UUMDA1203-100M	10.0	33.7	35.0	10.0	7.0	3.0

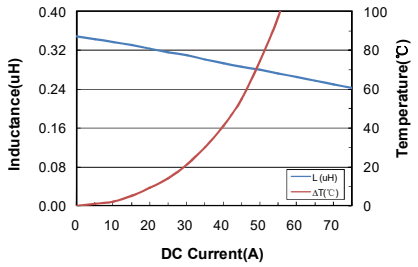
Typical performance curves :



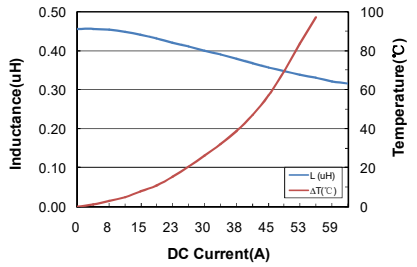




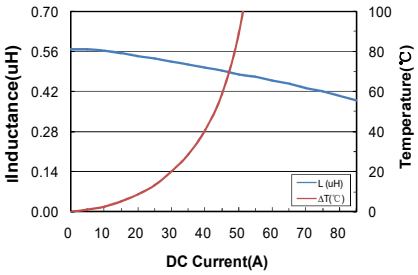
UUMDA1203-R33M



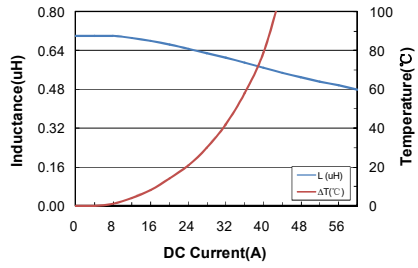
UUMDA1203-R47M



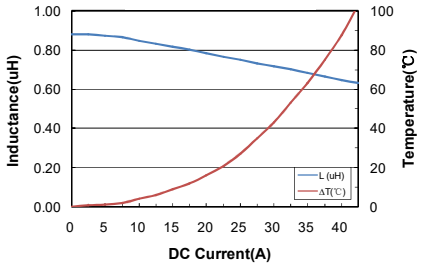
UUMDA1203-R60M



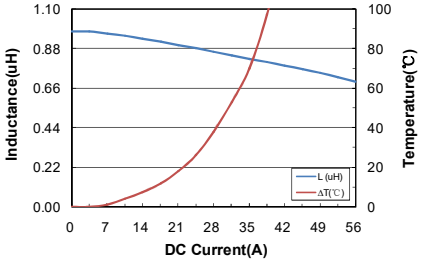
UUMDA1203-R68M



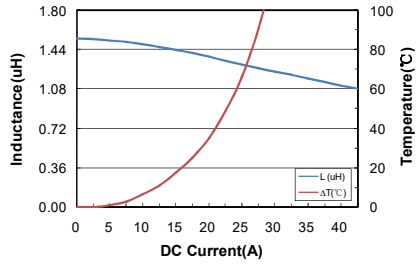
UUMDA1203-R82M



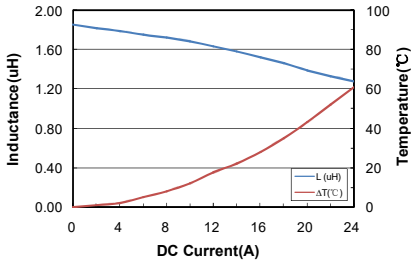
UUMDA1203-1R0M



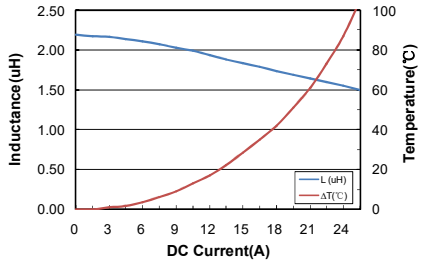
UUMDA1203-1R5M



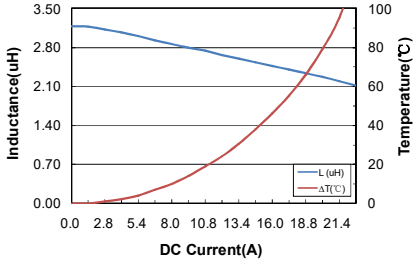
UUMDA1203-1R8M



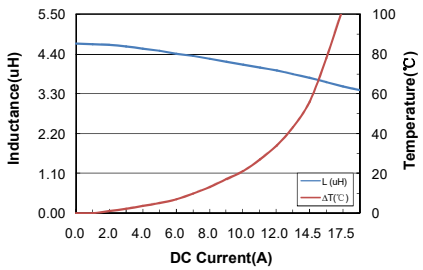
UUMDA1203-2R2M



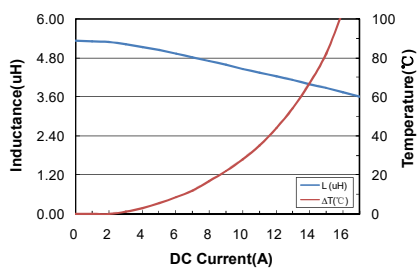
UUMDA1203-3R3M



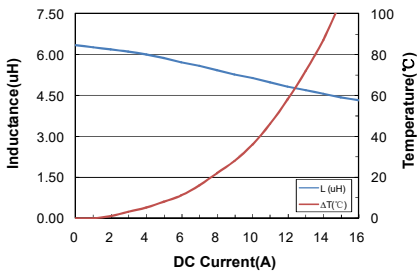
UUMDA1203-4R7M



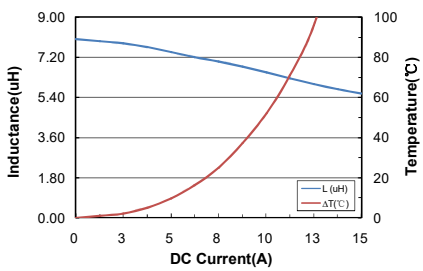
UUMDA1203-5R6M



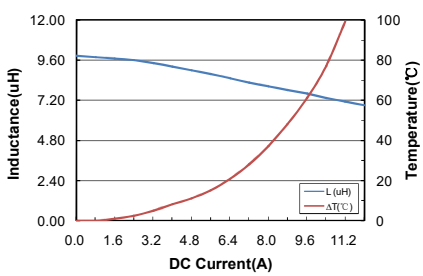
UUMDA1203-6R8M



UUMDA1203-8R2M



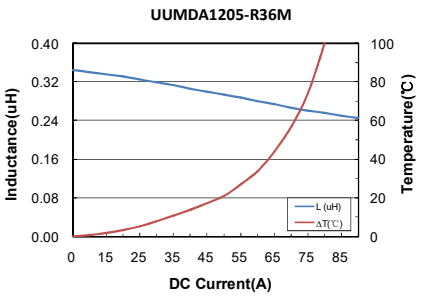
UUMDA1203-100M

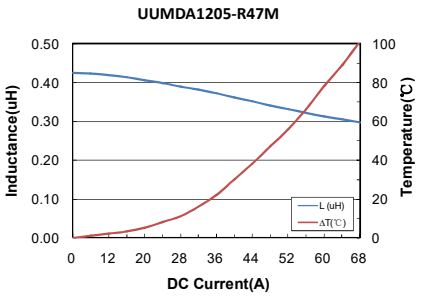


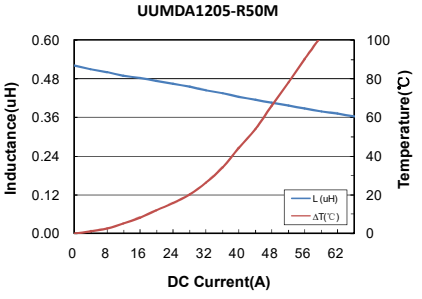
● UUMDA1205 series

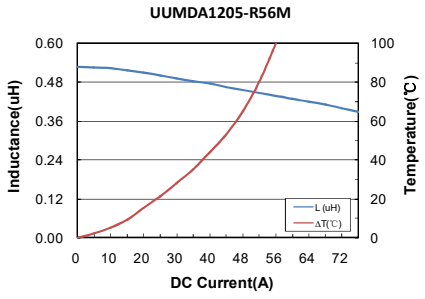
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDA1205-R36M	0.36	1.0	1.1	75.0	41.0	3.0
UUMDA1205-R47M	0.47	1.1	1.3	65.0	38.0	3.0
UUMDA1205-R50M	0.50	1.1	1.5	55.0	36.0	3.0
UUMDA1205-R56M	0.56	1.4	1.5	55.0	36.0	3.0
UUMDA1205-R68M	0.68	1.4	1.7	54.0	34.0	3.0
UUMDA1205-R82M	0.82	2.1	2.3	53.0	31.0	3.0
UUMDA1205-1R0M	1.0	2.2	2.5	50.0	29.0	3.0
UUMDA1205-1R2M	1.2	2.2	2.5	46.0	25.0	3.0
UUMDA1205-1R5M	1.5	3.5	4.1	48.0	23.0	3.0
UUMDA1205-2R2M	2.2	4.4	5.5	32.0	20.0	3.0
UUMDA1205-2R7M	2.7	7.2	8.2	32.0	18.0	3.0
UUMDA1205-3R3M	3.3	7.8	9.2	32.0	15.0	3.0
UUMDA1205-4R7M	4.7	13.7	15.0	27.0	12.0	3.0
UUMDA1205-5R6M	5.6	14.2	16.5	22.0	11.5	3.0
UUMDA1205-6R8M	6.8	17.2	18.5	21.0	11.0	3.0
UUMDA1205-7R8M	7.8	17.2	20.5	18.0	10.0	3.0
UUMDA1205-8R2M	8.2	17.5	22.5	12.0	8.50	3.0
UUMDA1205-100M	10.0	21.5	25.5	9.5	7.0	3.0

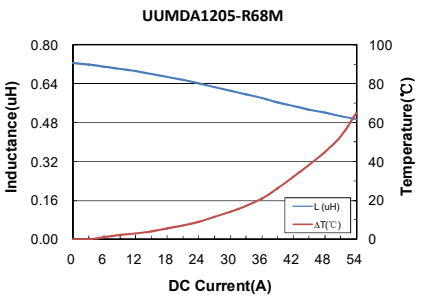
Typical performance curves :

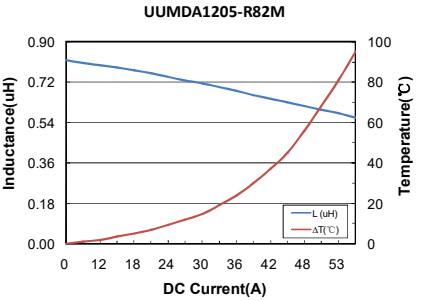




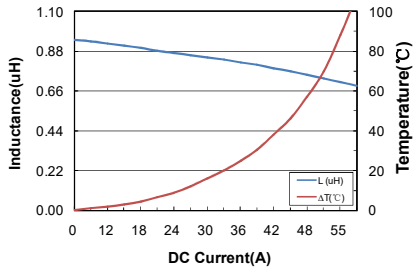




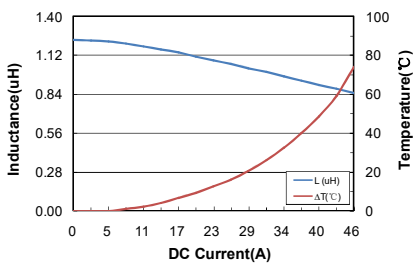




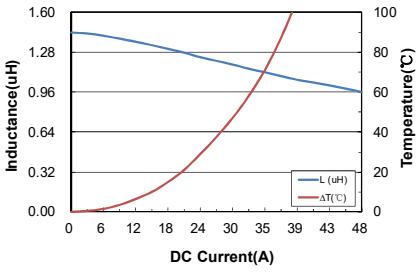
UUMDA1205-1R0M



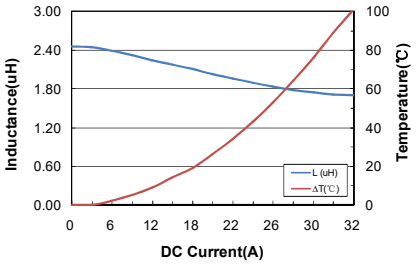
UUMDA1205-1R2M



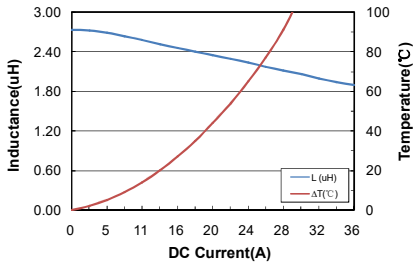
UUMDA1205-1R5M



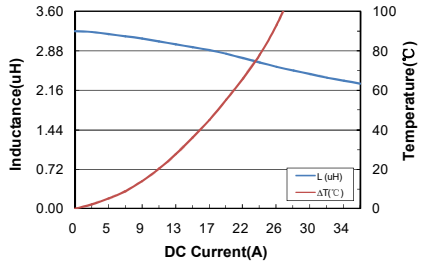
UUMDA1205-2R2M



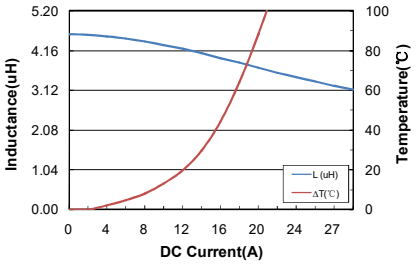
UUMDA1205-2R7M



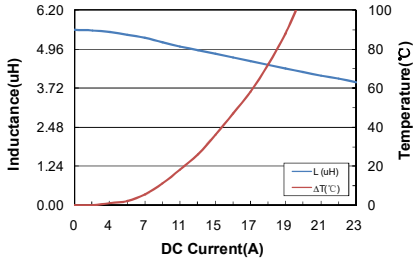
UUMDA1205-3R3M



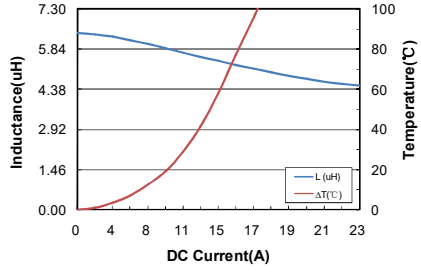
UUMDA1205-4R7M



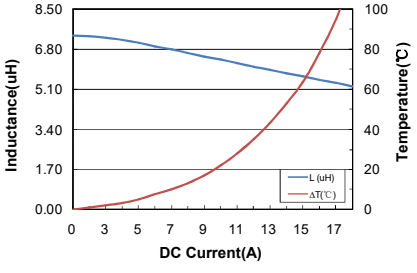
UUMDA1205-5R6M



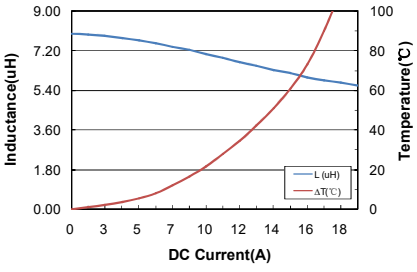
UUMDA1205-6R8M



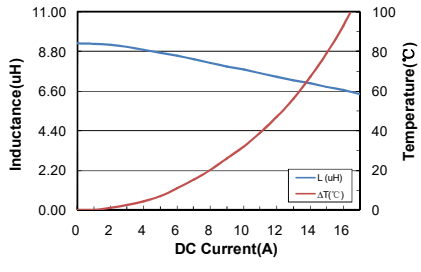
UUMDA1205-7R8M



UUMDA1205-8R2M



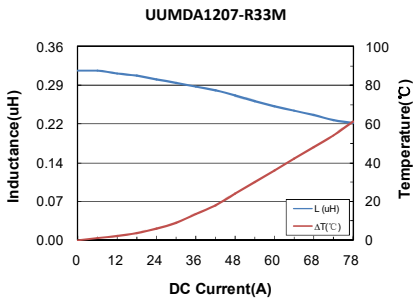
UUMDA1205-100M

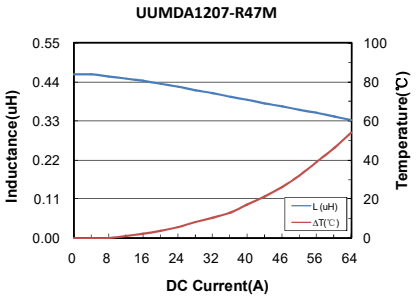


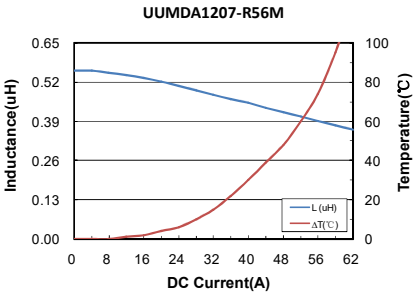
● UUMDA1207 series

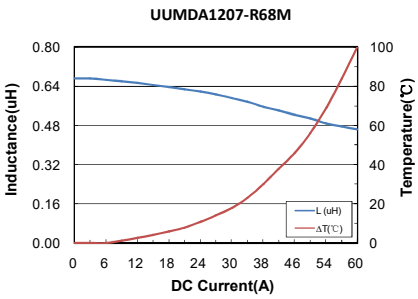
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDA1207-R33M	0.33	0.8	0.9	65.0	46.0	3.0
UUMDA1207-R47M	0.47	1.0	1.2	63.0	41.0	3.0
UUMDA1207-R56M	0.56	1.2	1.4	62.0	37.0	3.0
UUMDA1207-R68M	0.68	1.45	1.6	60.0	35.0	3.0
UUMDA1207-R82M	0.82	1.75	1.9	50.0	33.0	3.0
UUMDA1207-1R0M	1.0	1.85	2.0	50.0	32.0	3.0
UUMDA1207-1R5M	1.5	2.6	3.0	45.0	27.0	3.0
UUMDA1207-2R2M	2.2	3.7	4.2	40.0	22.0	3.0
UUMDA1207-3R3M	3.3	6.2	6.8	35.0	18.0	3.0
UUMDA1207-4R7M	4.7	7.4	10.0	30.0	15.0	3.0
UUMDA1207-5R6M	5.6	9.7	11.2	26.5	13.5	3.0
UUMDA1207-6R8M	6.8	7.4	14.0	17.0	12.0	3.0
UUMDA1207-8R2M	8.2	13.4	15.5	16.0	10.5	3.0
UUMDA1207-100M	10.0	13.2	16.8	15.5	10.0	3.0

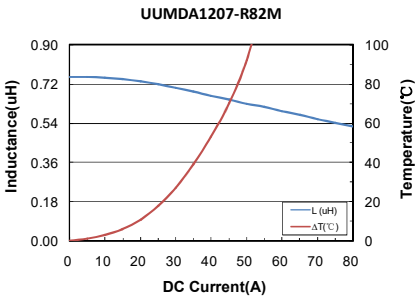
Typical performance curves :

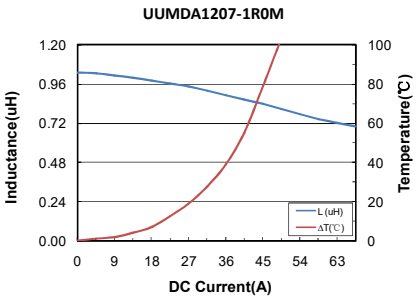






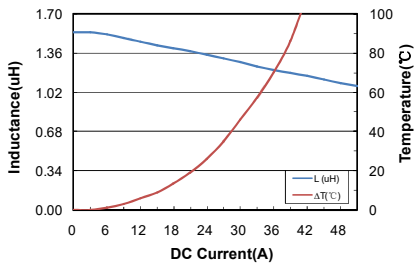




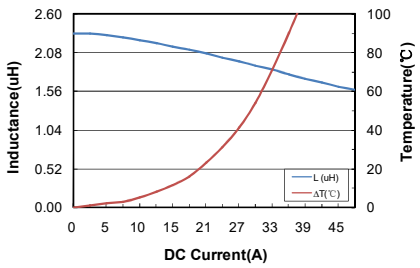


Typical performance curves :

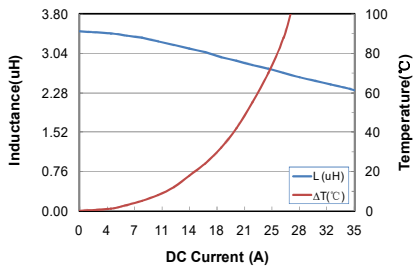
UUMDA1207-1R5M



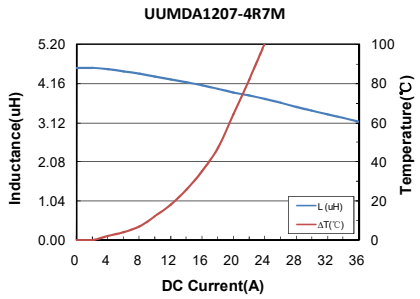
UUMDA1207-2R2M



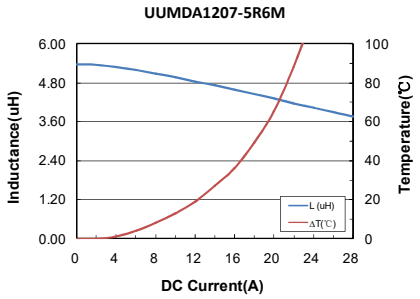
UUMDA1207-3R3M



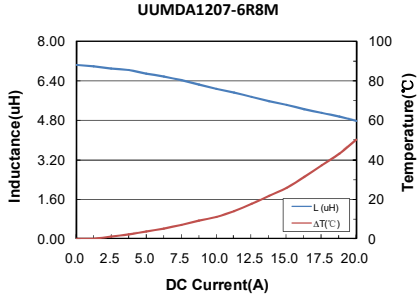
UUMDA1207-4R7M



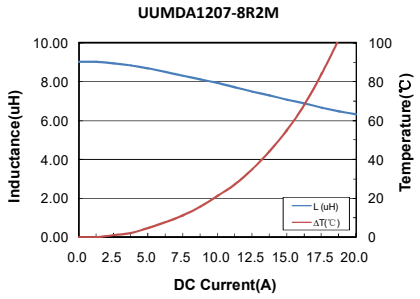
UUMDA1207-5R6M



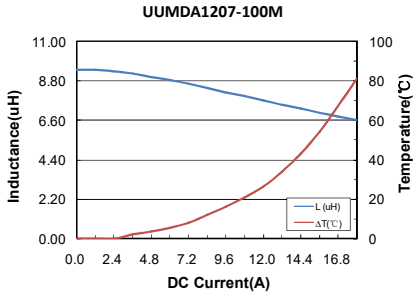
UUMDA1207-6R8M



UUMDA1207-8R2M

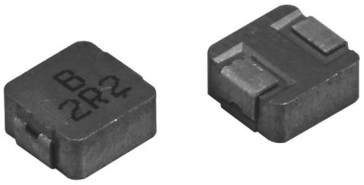


UUMDA1207-100M



UUMD B SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.



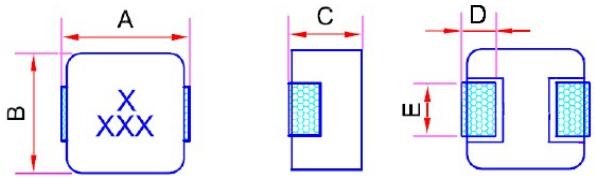
Applications :

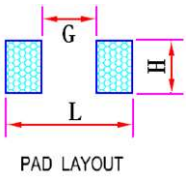
. PDA/Notebook/Desktop, and server applications.

. DC/DC converters in distributed power systems.

. DC/DC converter for Field Programmable Gat Array(FPGA).

Shape and Dimensions (Dimensions are in mm):





Item	A	B	C	D	E	G	H	L
UUMDBS0603	7.10±0.2	6.60±0.2	2.8±0.2	1.60±0.3	By each	3.7	3.5	8.0
UUMDB0804	8.60±0.3	8.1±0.25	3.8±0.2	1.80±0.3	3.2±0.5	4.6	3.8	10.6
UUMDB1004	11.0±0.5	10.0±0.3	3.8±0.2	2.30±0.3	3.0±0.5	5.4	4.5	12.4
UUMDB1205	13.4±0.5	12.6±0.3	4.8±0.2	2.30±0.3	3.0±0.5	8.0	5.0	14.5
UUMDB1265	13.4±0.5	12.6±0.3	6.3±0.2	2.30±0.3	3.0±0.5	8.0	5.0	14.5
UUMDB1704	17.3±0.5	17.0±0.3	3.8±0.2	2.1±0.3	12.0±0.3	11.7	12.2	18
UUMDB1707	17.3±0.5	17.0±0.3	6.7±0.3	2.1±0.3	12.0±0.3	11.7	12.2	18.0
UUMDB2213	23.0±0.5	22.0±0.5	12.5±0.5	5.0±0.4	18.5±0.3	12.2	19.6	23.8

Features :

. Low profile and low DCR.

. Shielded construction.

. handles high transient current spikes without saturation

. **B** type frequency up to **5MHz**.

. Ultra low buzz noise, due to composite construction.

. RoHS compliant.

Product Identification :

UUMD B S 0603 – 2R2 M – C

(1) (2) (3) (4) (5) (6)

(1) Series

(2) Style : **B**-Powder Type **S**-Small Size.

(3) Dimensions :**0603** is size.

(4) Inductance: **2R2** for **2.2** uH.

(5) Inductance tolerance: **M**: ± 20%.

(6) Coating

Characteristics:

. Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

. Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

. Operating Temperature : -55℃ to 125℃.

Test equipments :

. L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

. DCR tested by Milli-ohm meter.

. Electrical specifications at 25℃.

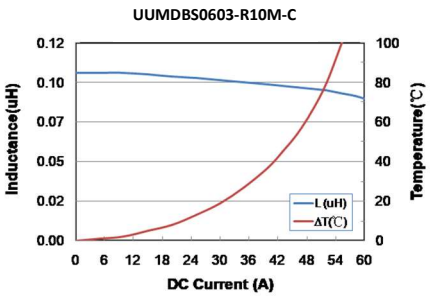
Handling and precautions :

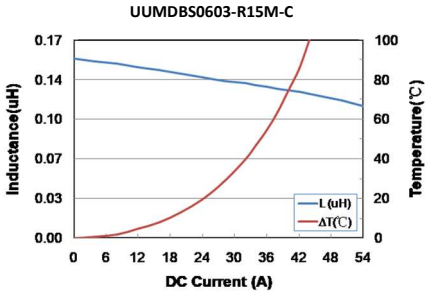
. Please contact us before cleaning this product.

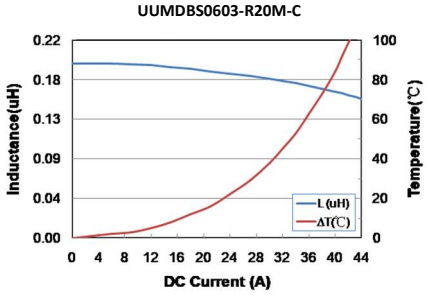
● UUMDBS0603 series

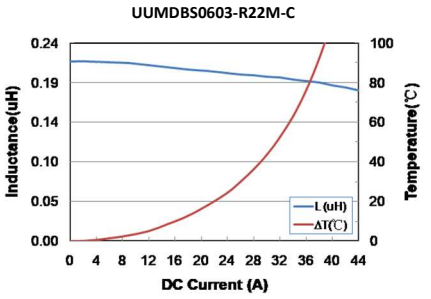
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDBS0603-R10M-C	0.10	1.15	1.7	60.0	32.5	2.0
UUMDBS0603-R15M-C	0.15	1.35	2.5	52.0	26.0	2.0
UUMDBS0603-R20M-C	0.20	2.45	3.0	41.0	24.0	3.0
UUMDBS0603-R22M-C	0.22	2.45	2.8	40.0	23.0	3.0
UUMDBS0603-R33M-C	0.33	3.1	3.9	30.0	20.0	3.0
UUMDBS0603-R47M-C	0.47	4.0	4.2	26.0	17.5	3.0
UUMDBS0603-R56M-C	0.56	4.8	5.0	25.5	16.5	3.0
UUMDBS0603-R68M-C	0.68	4.95	5.5	25.0	15.5	3.0
UUMDBS0603-R82M-C	0.82	7.15	8.0	24.0	13.0	3.0
UUMDBS0603-1R0M-C	1.0	9.3	10.0	22.0	11.0	3.0
UUMDBS0603-1R2M-C	1.2	11.6	13.0	20.0	10.0	3.0
UUMDBS0603-1R5M-C	1.5	13.5	15.0	18.0	9.0	3.0
UUMDBS0603-1R8M-C	1.8	14.9	18.0	16.0	8.5	3.0
UUMDBS0603-2R2M-C	2.2	18.3	20.0	14.0	8.0	3.0
UUMDBS0603-3R3M-C	3.3	28.0	30.0	13.5	6.0	3.0
UUMDBS0603-4R7M-C	4.7	38.0	40.0	10.0	5.5	3.0
UUMDBS0603-5R6M-C	5.6	46.9	50.0	9.0	5.0	3.0
UUMDBS0603-6R8M-C	6.8	54.8	60.0	8.0	4.5	3.0
UUMDBS0603-8R2M-C	8.2	61.5	68.0	7.5	4.0	3.0
UUMDBS0603-100M-C	10.0	72.4	105.0	7.0	3.0	3.0

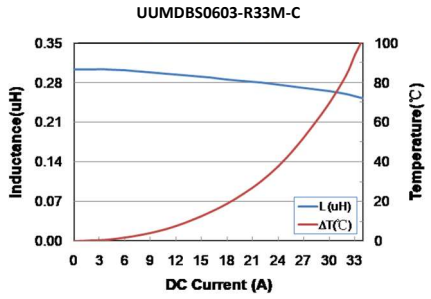
Typical performance curves :

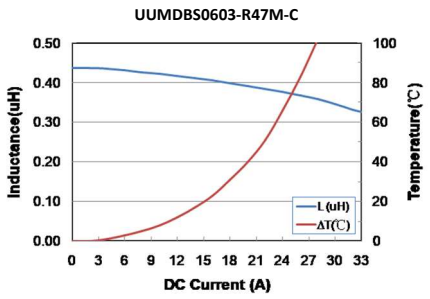




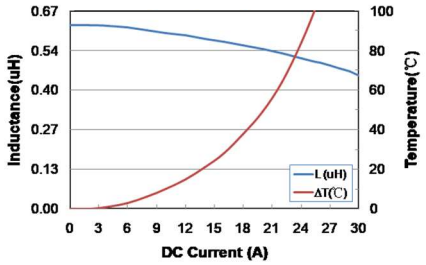




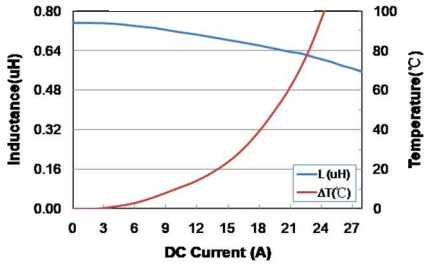




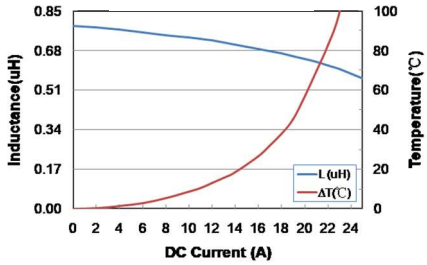
UUMDBS0603-R56M-C



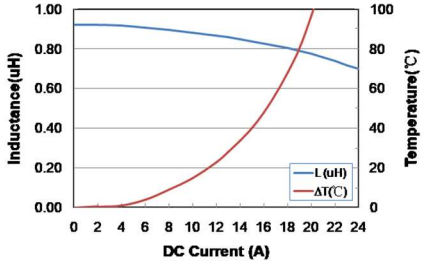
UUMDBS0603-R68M-C



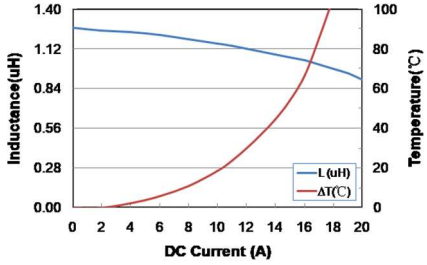
UUMDBS0603-R82M-C



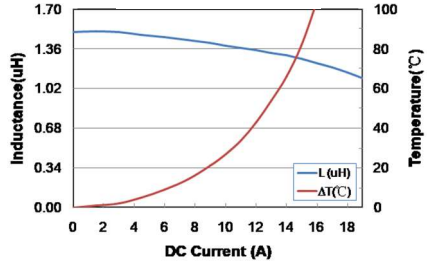
UUMDBS0603-1R0M-C



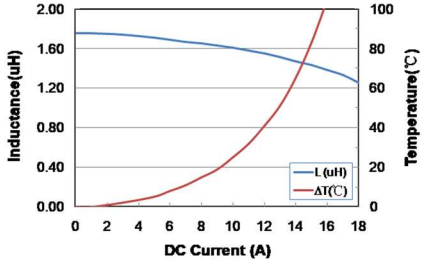
UUMDBS0603-1R2M-C



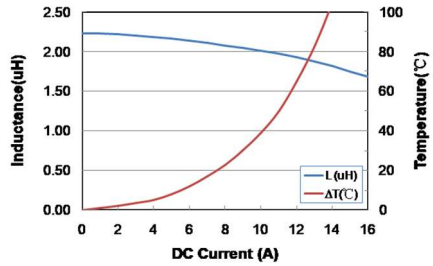
UUMDBS0603-1R5M-C



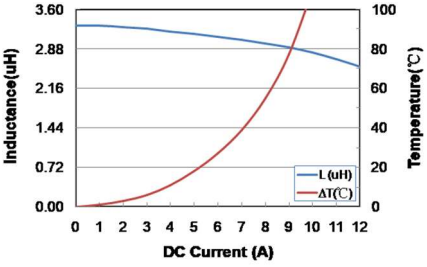
UUMDBS0603-1R8M-C



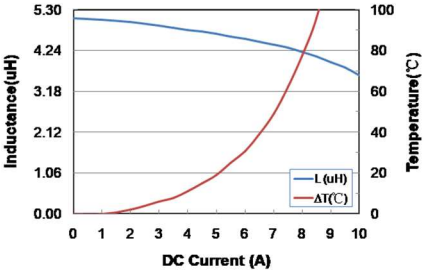
UUMDBS0603-2R2M-C



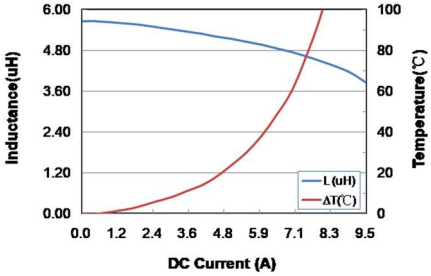
UUMDBS0603-3R3M-C



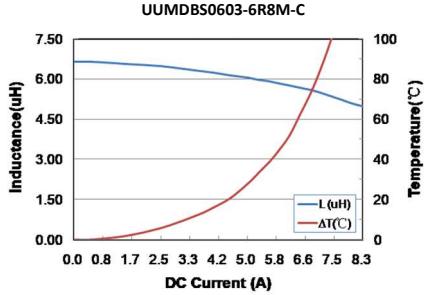
UUMDBS0603-4R7M-C



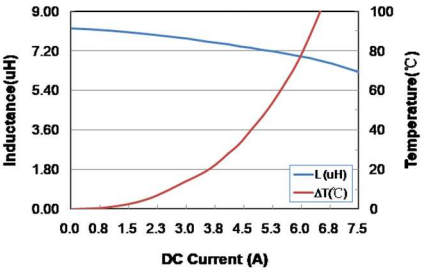
UUMDBS0603-5R6M-C



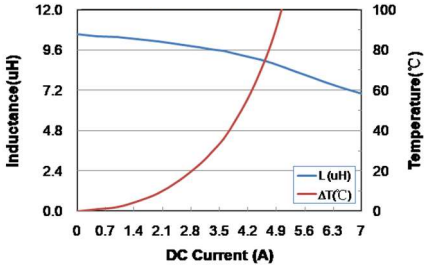
UUMDBS0603-6R8M-C



UUMDBS0603-8R2M-C



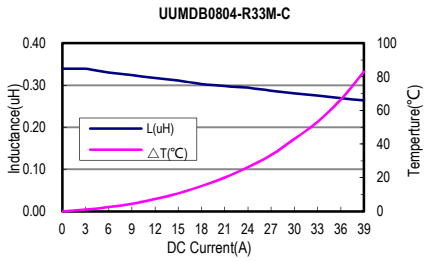
UUMDBS0603-100M-C

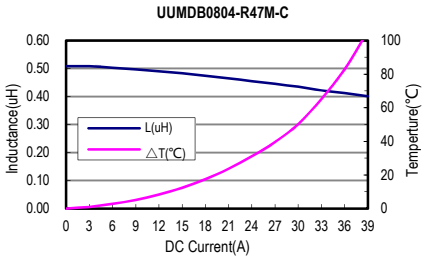


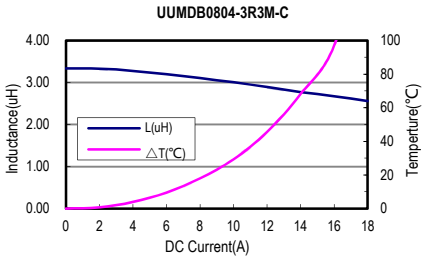
UUMDB 0804 Serie

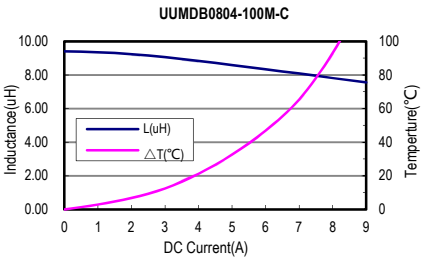
Part No.	Inductance @100KHZ L(uH)	DCR (mΩ)		I sat (A)	I rms (A)	E mm ±0.5
		Typ	Max	Typ	Typ	Typ
UUMDB0804-R33M-C	0.33	1.23	1.50	44.0	29.5	3.2
UUMDB0804-R47M-C	0.47	1.77	2.20	39.0	27.0	3.2
UUMDB0804-3R3M-C	3.30	13.4	17.7	20.0	10.0	3.2
UUMDB0804-100M-C	10.0	48.2	59.9	9.5	5.5	3.2
UUMDB0804-220M-C	22.0	72.9	86.24	7.0	4.5	3.2
UUMDB0804-330M-C	33.0	119.8	144.0	5.4	3.5	3.2

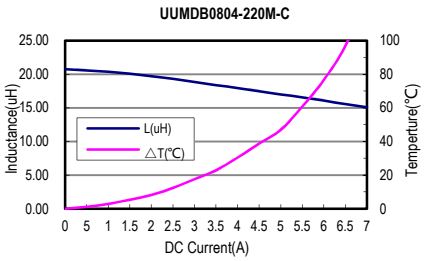
Typical performance curves :

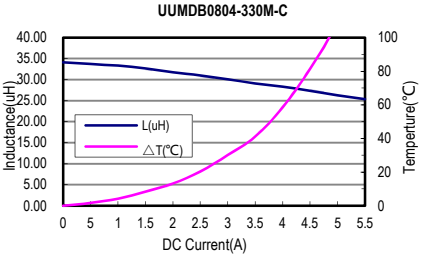








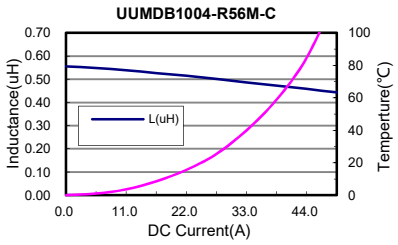


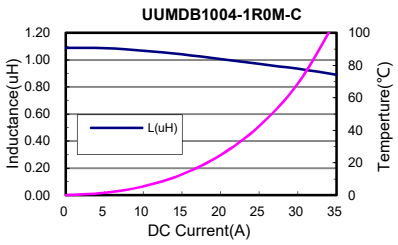


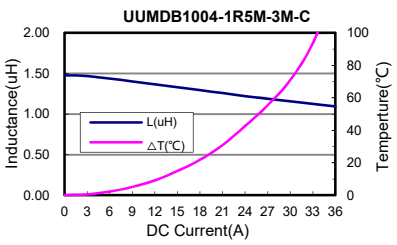
UUMDB 1004 Serie

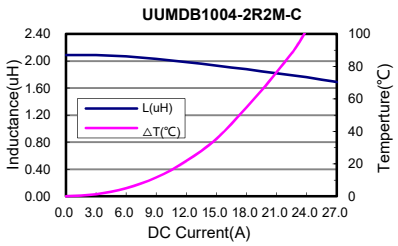
Part No.	Inductance @100KHZ L(uH)	DCR (mΩ)		I sat (A)	I rms (A)	E mm ±0.5
		Typ	Max	Typ	Typ	Typ
UUMDB1004-R56M-C	0.56	1.51	1.8	55	25	3.0
UUMDB1004-1R0M-C	1.0	2.75	3.5	40	20	3.0
UUMDB1004-1R5M-C	1.5	3.85	4.2	33	16	3.0
UUMDB1004-2R2M-C	2.2	7.09	9	26	12	3.0
UUMDB1004-3R3M-C	3.3	10.9	12	23	10	3.0
UUMDB1004-4R7M-C	4.7	15.5	16.5	17	9.5	3.0
UUMDB1004-6R8M-C	6.8	20.5	23.3	15	8	3.0
UUMDB1004-100M-C	10	28.4	36.5	14	6.8	3.0
UUMDB1004-220M-C	22	60.6	66	7	5	3.0
UUMDB1004-330M-C	33	93.2	105	6.5	4.1	3.0
UUMDB1004-470M-C	47	145	167	4.5	3	3.0

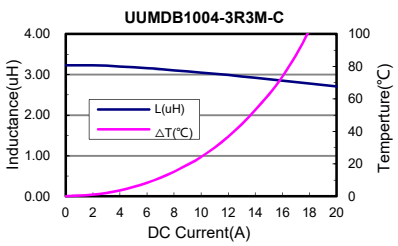
Typical Performance curves:

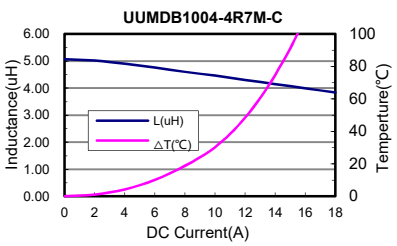


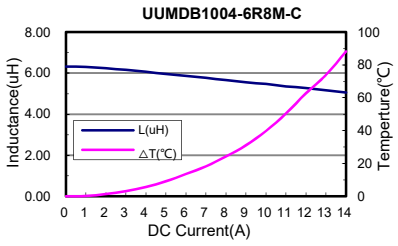


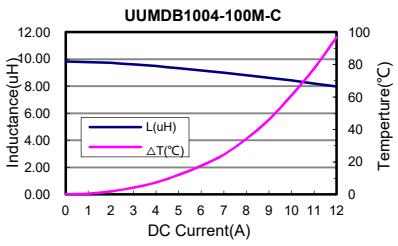


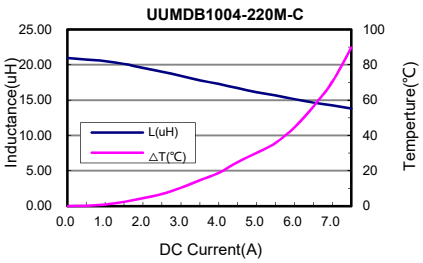


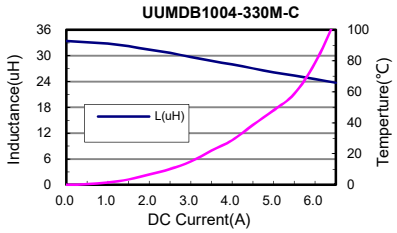


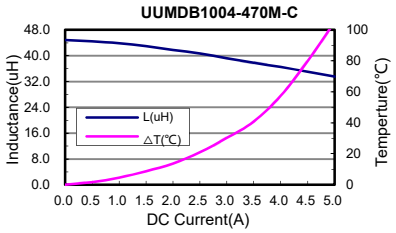








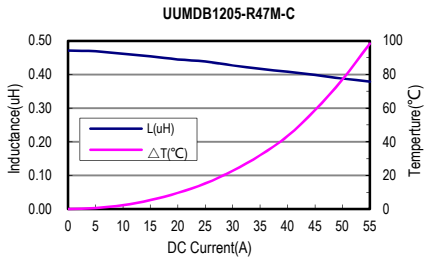


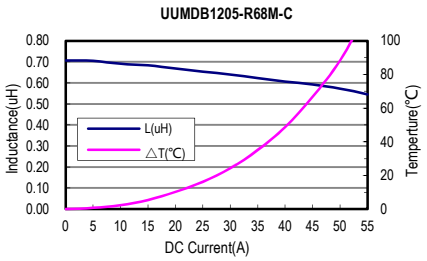


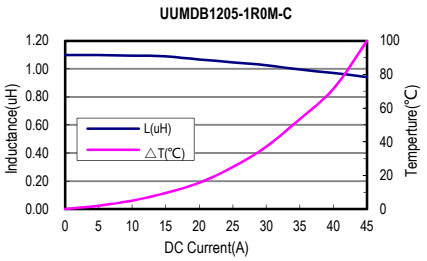
● UUMDB 1205 Serie

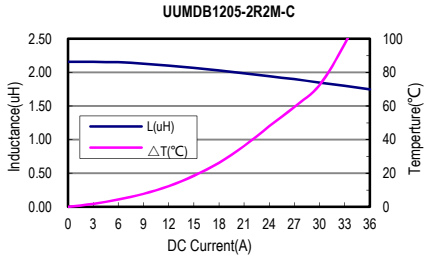
Part No.	Inductance @100KHZ L(uH)	DCR (mΩ)		I sat (A)	I rms (A)	E mm ±0.5
		Typ	Max	Typ	Typ	Typ
UUMDB1205-R47M-C	0.47	1.14	1.50	65.0	35.0	3.0
UUMDB1205-R68M-C	0.68	1.33	1.70	54.0	34.0	3.0
UUMDB1205-1R0M-C	1.00	1.84	2.20	50.0	29.0	3.0
UUMDB1205-2R2M-C	2.20	4.40	5.50	32.0	20.0	3.0
UUMDB1205-100M-C	10.0	23.5	28.0	17.5	9.0	3.0
UUMDB1205-330M-C	33.0	73.9	78.0	9.0	4.0	3.0

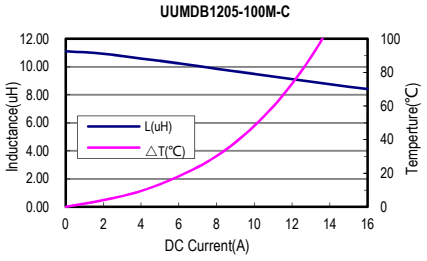
Typical performance curves :

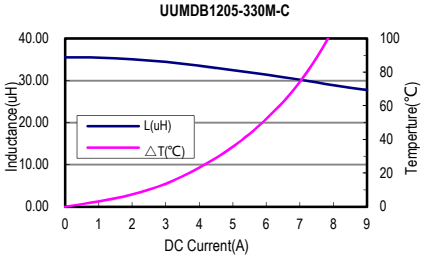










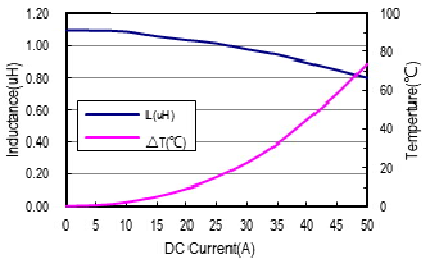


- **UUMDB 1265 Serie**

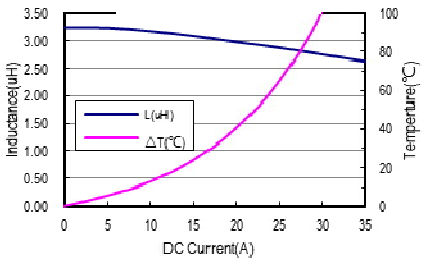
Part No.	Inductance @100KHZ L(uH)	DCR (mΩ)		I sat (A)	I rms (A)	E mm ±0.5
		Typ	Max	Typ	Typ	Typ
UUMDB1265-1R0M-C	1.0	1.59	2.0	46.0	35.0	3.0
UUMDB1265-3R3M-C	3.3	4.35	5.20	40.0	20.0	3.0
UUMDB1265-4R7M-C	4.7	5.97	7.20	32.0	18.0	3.0
UUMDB1265-470M-C	47.0	74.2	90.0	9.0	4.5	3.0

Typical performance curves :

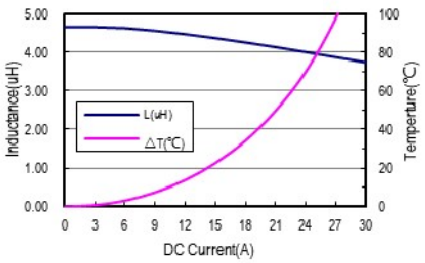
UUMDB1265-1R0M-C



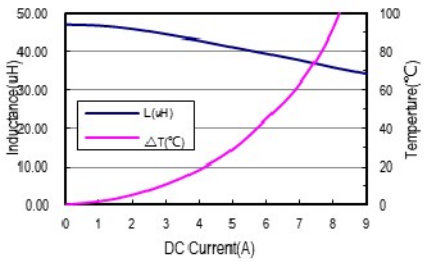
UUMDB1265-3R3M-C



UUMDB1265-4R7M-C



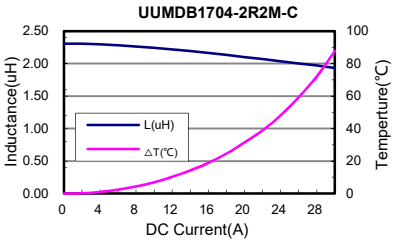
UUMDB1265-470M-C

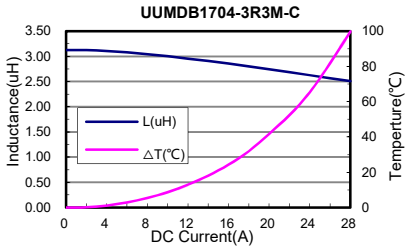


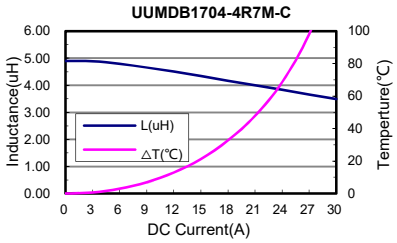
● UUMDB1704 Serie

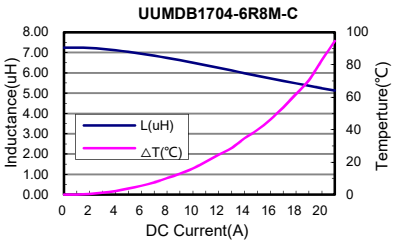
Part No.	Inductance @100KHZ L (uH)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.3
		Typical	Maximum			
UUMDB1704-2R2M-C	2.2	5.73	6.4	40	19	12
UUMDB1704-3R3M-C	3.3	7.70	9.51	31	18.5	12
UUMDB1704-4R7M-C	4.7	10.01	11.2	27	16	12
UUMDB1704-6R8M-C	6.8	14.70	16	21	13.2	12
UUMDB1704-8R2M-C	8.2	16.50	17.6	20	11.5	12
UUMDB1704-100M-C	10.0	22.7	25.6	19.5	10.5	12

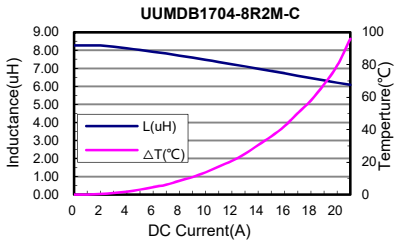
Typical performance curves :

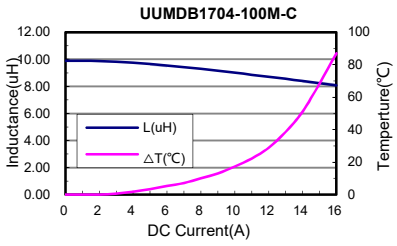








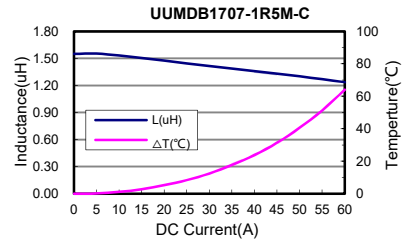


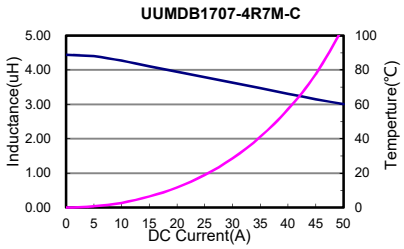


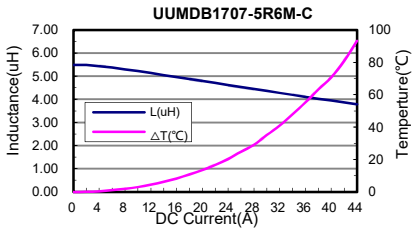
● UUMDB1707 Serie

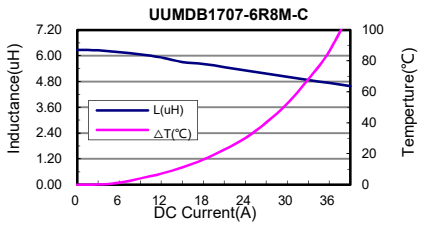
Part No.	Inductance @100KHZ L (uH)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.3
		Typical	Maximum			
UUMDB1707-1R5M-C	1.5	1.77	1.88	65	42	12
UUMDB1707-4R7M-C	4.7	3.42	4.5	41	30	12
UUMDB1707-5R6M-C	5.6	4.2	5.6	40	28	12
UUMDB1707-6R8M-C	6.8	5.4	7.5	32	19	12
UUMDB1707-100M-C	10	8.85	12	29	17	12
UUMDB1707-150M-C	15	17.84	19.9	25	12.5	12
UUMDB1707-220M-C	22	24.43	26.5	23	11	12
UUMDB1707-470M-C	47	34.77	45	13	9	12

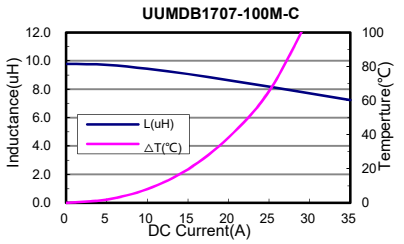
Typical performance curves :

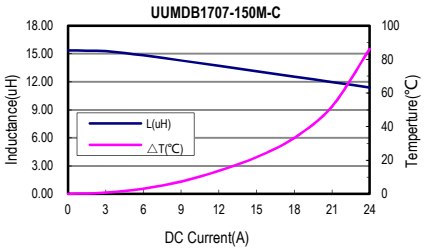


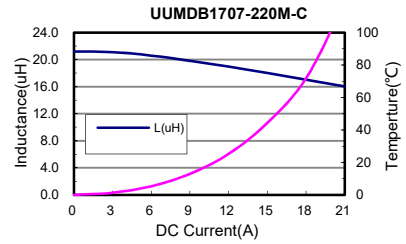


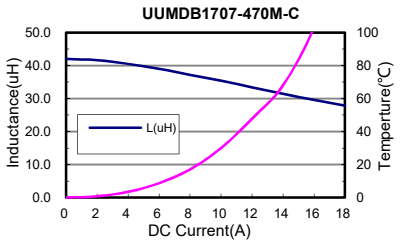








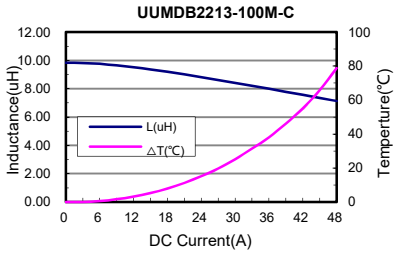


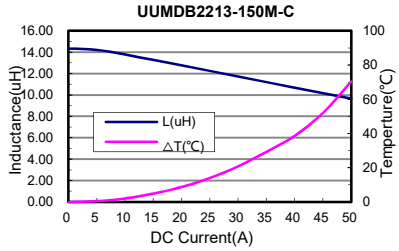


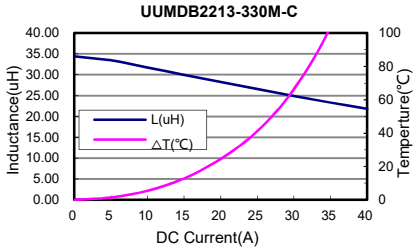
● UUMDB2213 Serie

Part No.	Inductance @100KHZ	DCR (mΩ)		Isat (A)	Irms (A)	E mm ±0.3
	L (uH)	Typical	Maximum	Typ	Typ	
UUMDB2213-100M-C	10	3.8	4.6	44	35	18.5
UUMDB2213-150M-C	15	5.3	6.4	36	31	18.5
UUMDB2213-330M-C	33	13.4	16	28	22	18.5

Typical performance curves :







UUMD B SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

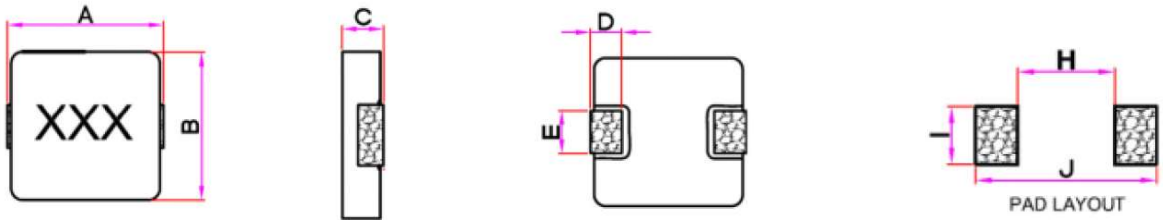
Applications:

. PDA/Notebook/Desktop, and server applications.

. DC/DC converters in distributed power systems.

. DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions (Dimensions are in mm):



Item	A	B	C	D	E	H	I	J
UUMDB0603W	7.3±0.3	6.6±0.3	2.8±0.2	1.6±0.3	3.0±0.3	3.7	3.5	8.4
UUMDB1004W	11.0±0.5	10.0±0.3	3.8±0.2	2.0±0.5	By each	5.4	4.1	13.6

Features :

. Low profile and low DCR.

. Shielded construction.

. handles high transient current spikes without saturation

. **B** type frequency up to **5MHz**.

. Ultra low buzz noise, due to composite construction.

. RoHS compliant.

Product Identification :

UUMD B 0603W – 2R2 M

(1) (2) (3) (4) (5)

(1) Series

(2) Style: **B**-Powder Typ.

(3) Dimensions: **0603W** is size.

(4) Inductance: **2R2** for **2.2** uH.

(5) Inductance tolerance: **M**: ± 20%.

Characteristics:

. Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

. Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

. Operating Temperature : -55℃ to 125℃.

Test equipments :

. L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

. DCR tested by Milli-ohm meter.

. Electrical specifications at 25℃.

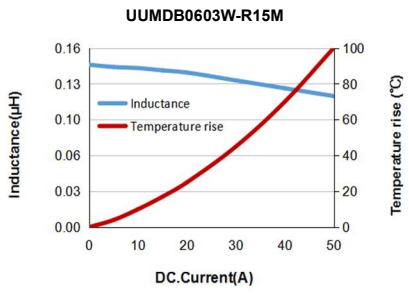
Handling and precautions :

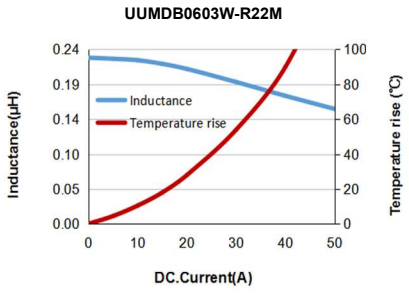
. Please contact us before cleaning this product.

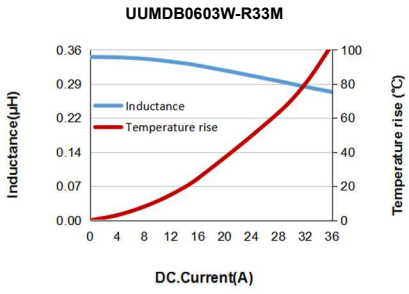
UUMDB0603W Series

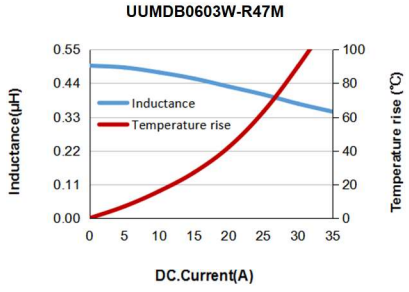
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.5
		Typical	Maximum			
UUMDB0603W-R15M	0.15	1.6	1.9	45.0	27.0	3.0
UUMDB0603W-R22M	0.22	2.2	2.8	40.0	23.0	3.0
UUMDB0603W-R33M	0.33	3.3	3.9	32.0	20.0	3.0
UUMDB0603W-R47M	0.47	3.8	4.2	26.0	17.5	3.0
UUMDB0603W-R56M	0.56	4.2	5.0	25.5	16.5	3.0
UUMDB0603W-R68M	0.68	4.7	5.5	25.0	15.5	3.0
UUMDB0603W-R82M	0.82	6.8	8.0	24.0	13.0	3.0
UUMDB0603W-1R0M	1.0	6.9	10.0	22.0	11.0	3.0
UUMDB0603W-1R5M	1.5	10.5	15.0	18.0	9.0	3.0
UUMDB0603W-2R2M	2.2	17.5	20.0	14.0	8.0	3.0
UUMDB0603W-3R3M	3.3	19.5	30.0	13.5	6.0	3.0
UUMDB0603W-4R7M	4.7	34.0	40.0	10.0	5.5	3.0
UUMDB0603W-5R6M	5.6	41.0	48.0	9.0	5.0	3.0
UUMDB0603W-6R8M	6.8	51.0	60.0	8.0	4.5	3.0
UUMDB0603W-8R2M	8.2	58.0	68.0	7.5	4.0	3.0
UUMDB0603W-100M	10	72.0	85.0	6.0	3.5	3.0
UUMDB0603W-150M	15	104	123	4.0	3.0	3.0
UUMDB0603W-220M	22	161	190	3.5	2.0	3.0
UUMDB0603W-330M	33	204	240	2.5	2.0	3.0
UUMDB0603W-470M	47	308	363	2.0	1.75	3.0

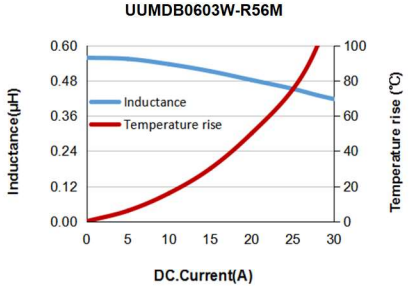
Typical performance curves :

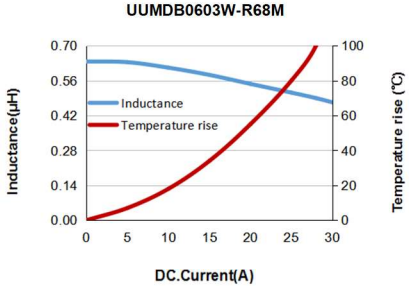




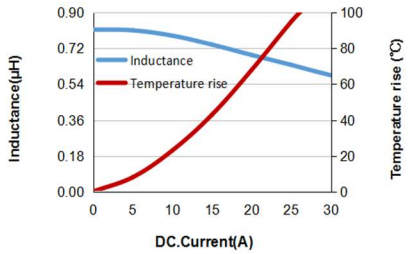




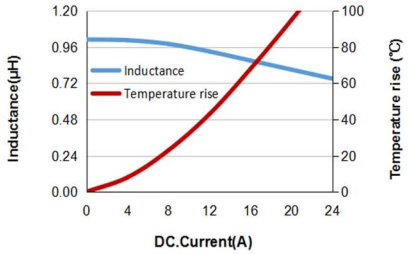




UUMDB0603W-R82M



UUMDB0603W-1R0M



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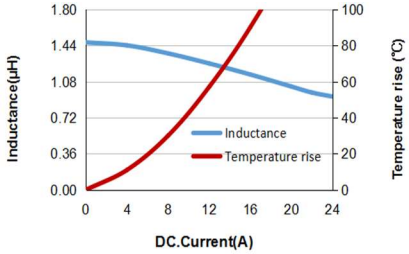

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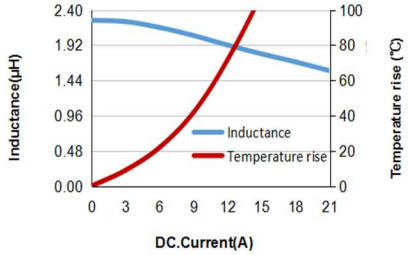

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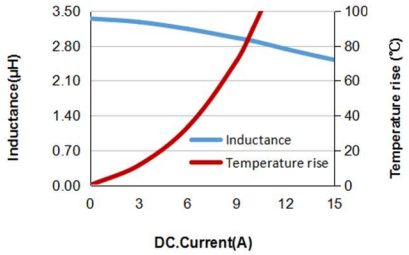
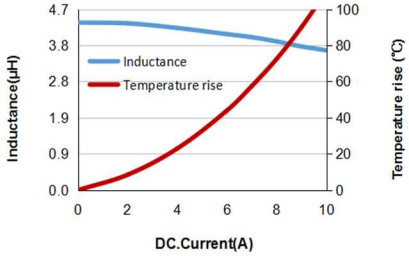
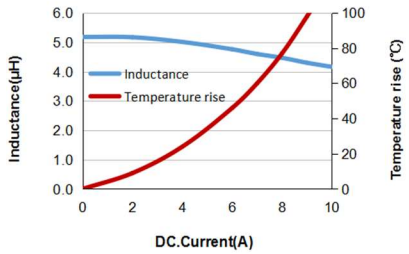


UUMDB0603W-4R7M



UUMDB0603W-5R6M



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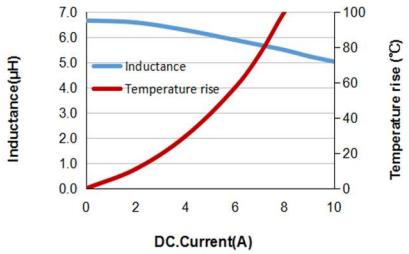
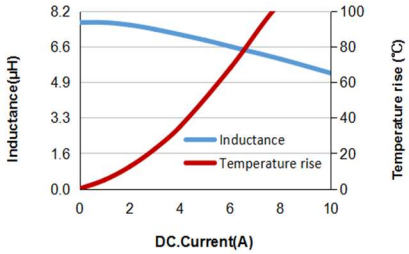
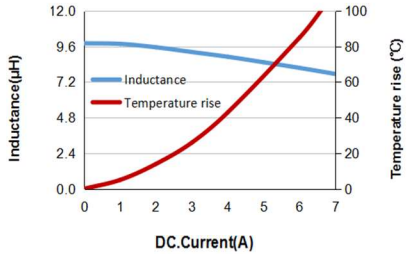


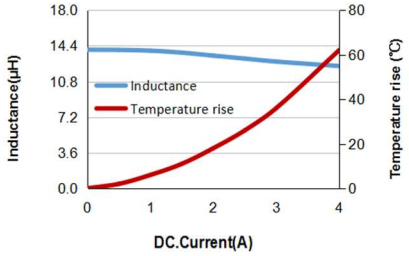
UUMDB0603W-8R2M



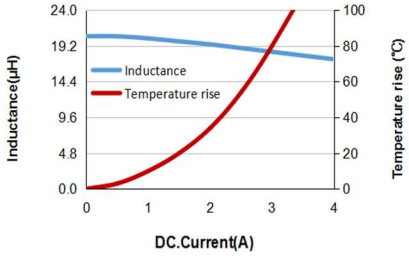
UUMDB0603W-100M



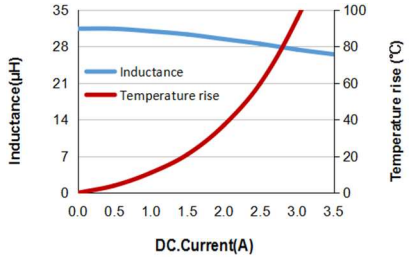
UUMDB0603W-150M



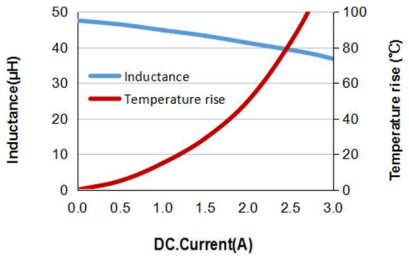
UUMDB0603W-220M



UUMDB0603W-330M



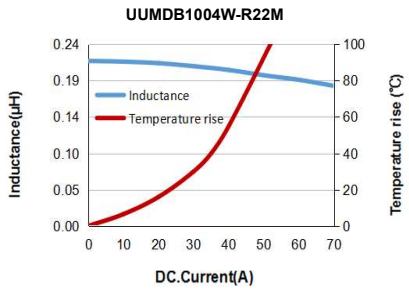
UUMDB0603W-470M

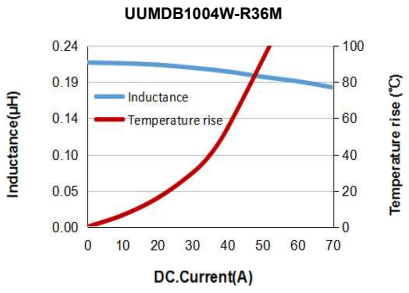


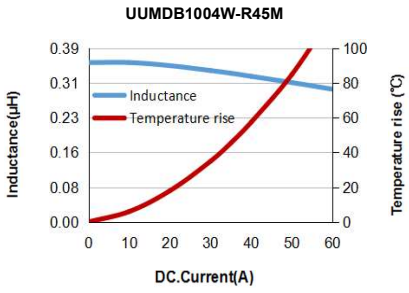
● UUMDB1004W Series

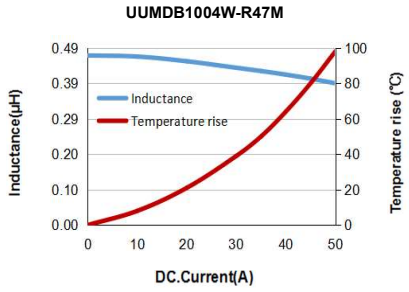
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDB1004W-R22M	0.22	0.8	1.0	60.0	35.0	3.0
UUMDB1004W-R36M	0.36	1.1	1.2	60.0	31.0	3.0
UUMDB1004W-R45M	0.45	1.3	1.5	45.0	29.0	3.0
UUMDB1004W-R47M	0.47	1.3	1.5	43.0	28.0	3.0
UUMDB1004W-R56M	0.56	1.6	1.8	40.0	25.0	3.0
UUMDB1004W-R68M	0.68	2.4	2.7	39.0	22.0	3.0
UUMDB1004W-1R0M	1.0	3.0	3.3	36.0	18.0	3.0
UUMDB1004W-1R5M	1.5	4.0	4.6	33.0	16.0	3.0
UUMDB1004W-2R2M	2.2	5.9	7.0	27.0	12.0	3.0
UUMDB1004W-3R3M	3.3	10.0	11.8	20.0	11.0	3.0
UUMDB1004W-4R7M	4.7	13.5	15.5	17.0	10.0	3.0
UUMDB1004W-5R6M	5.6	16.5	19.3	14.0	9.0	3.0
UUMDB1004W-6R8M	6.8	19.5	23.3	13.5	8.5	3.0
UUMDB1004W-100M	10	26.0	30.0	12.0	7.5	3.0
UUMDB1004W-150M	15	38.0	45.0	10.0	6.25	3.0
UUMDB1004W-220M	22	65.0	74.0	7.0	5.0	3.0
UUMDB1004W-330M	33	95.0	112	5.0	3.5	3.0
UUMDB1004W-470M	47	142	167	4.5	3.0	3.0

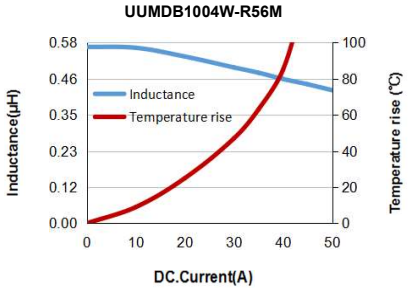
Typical performance curves :

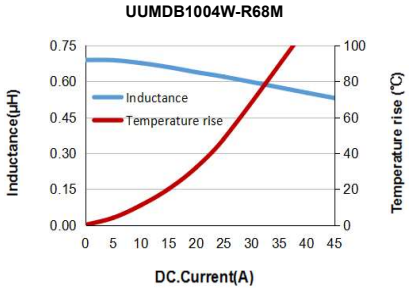


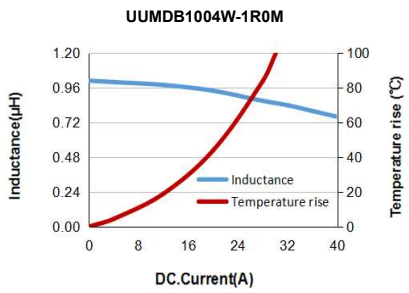


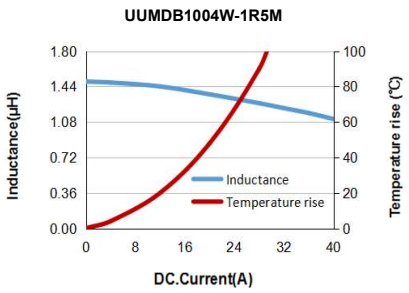


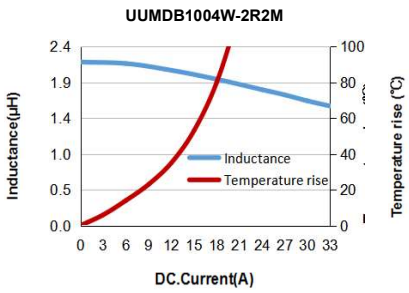




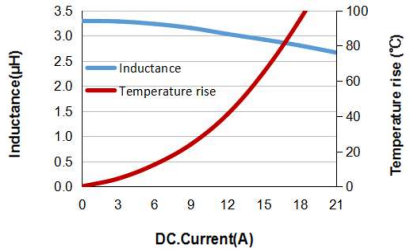








UUMDB1004W-3R3M



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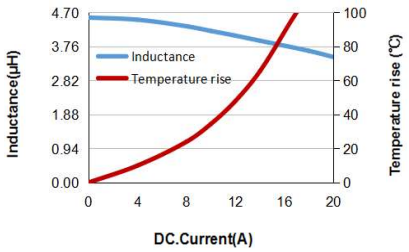

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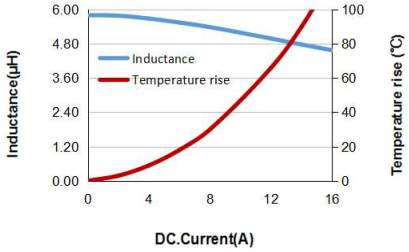

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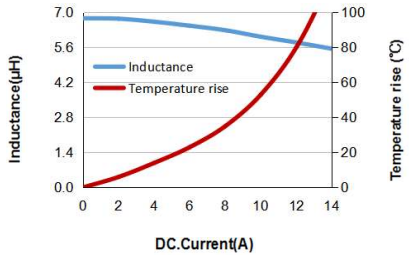
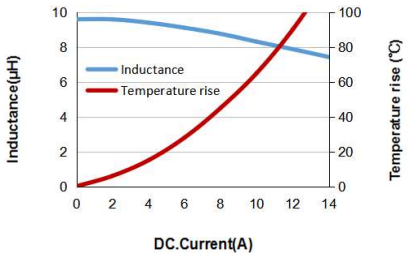


UUMDB1004W-100M



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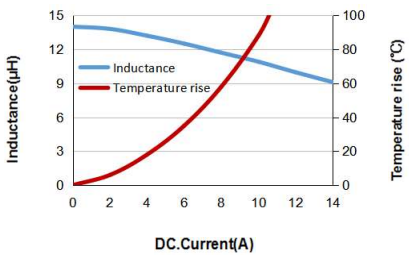

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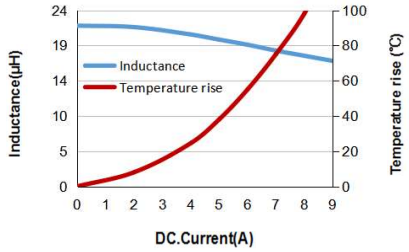

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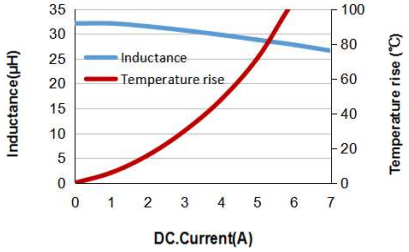
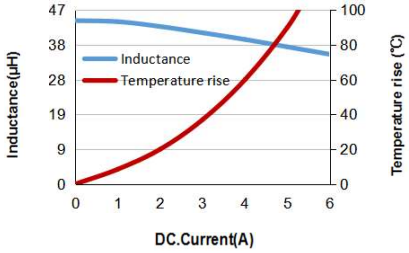
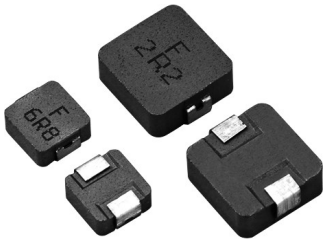


UUMDB1004W-470M



UUMD F SERIES

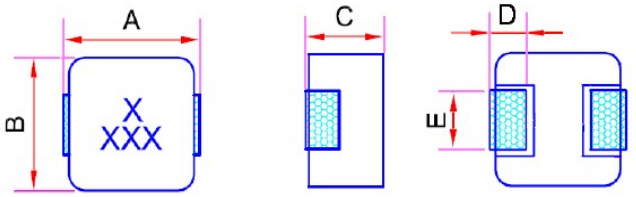
ULTRA HIGH CURRENT SMT POWER INDUCTOR.

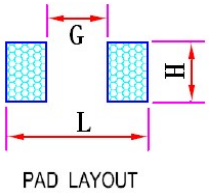


Applications:

. PDA/Notebook/Desktop, and server applications.
. DC/DC converters in distributed power systems.
. DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :





PAD LAYOUT

Item	A Max.	B Max.	C Max.	D	E	G	H	L
UUMDFS0603	7.10±0.2	6.60±0.2	2.8±0.2	1.6±0.3	By each	3.7	3.5	8.0
UUMDF0804	8.6±0.3	8.0±0.25	3.8±0.2	1.8±0.3	By each	4.6	3.8	10.6
UUMDF1004	11.0±0.5	10.0±0.3	3.8±0.2	2.3±0.3	3.0±0.5	5.4	4.5	12.4
UUMDF1205	13.4±0.5	12.6±0.3	4.8±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5
UUMDF1265	13.4±0.5	12.6±0.3	6.3±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5
UUMDF1704	17.3±0.5	17.0±0.3	3.8±0.2	2.1±0.3	12.0±0.3	11.7	12.2	18.0
UUMDF1707	17.3±0.5	17.0±0.3	6.7±0.3	2.1±0.3	12.0±0.3	11.7	12.2	18.0
UUMDF2213	23.0±0.5	22.0±0.5	12.5±0.5	5.0±0.4	18.5±0.3	12.2	19.6	23.8

Features :

. Low profile and low DCR.
. Shielded construction.
. handles high transient current spikes without saturation
. **F** type frequency up to **3MHz.**
. Ultra low buzz noise, due to composite construction.
. RoHS compliant.

Product Identification:

UUMD F S 0603 – 2R2 M
(1) (2) (3) (4) (5)

(1) Series
(2) Style : **F**-Powder Type **S**- small Size.
(3) Dimensions : **0603** is size.
(4) Inductance: **2R2** for **2.2** uH.
(5) Inductance tolerance: **M**: ± 20%.

Characteristics:

. Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.
. Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.
. Operating Temperature : -55℃ to 125℃.

Test equipments:

. L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.
. DCR tested by Milli-ohm meter.
. Electrical specifications at 25℃.

Handling and precautions:

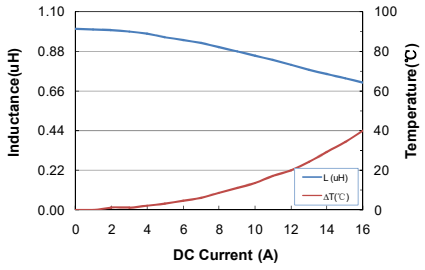
. Please contact us before cleaning this product.

● UUMDFS0603 series

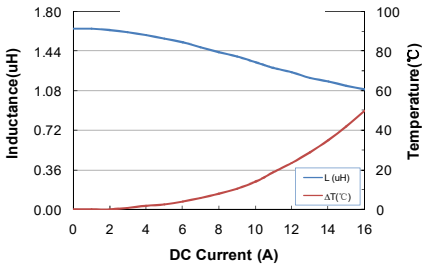
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDFS0603-1R0M	1.0	7.0	8.0	9.5	12.5	3.0
UUMDFS0603-1R5M	1.5	10.2	12.0	8.5	10.5	3.0
UUMDFS0603-2R2M	2.2	14.7	16.5	7.0	9.0	3.0
UUMDFS0603-3R3M	3.3	23.5	26.0	6.5	7.0	3.0
UUMDFS0603-4R7M	4.7	29.5	33.4	4.0	6.0	3.0
UUMDFS0603-6R8M	6.8	41.0	46.8	4.0	5.5	3.0
UUMDFS0603-8R2M	8.2	52.5	54.9	4.0	5.0	3.0
UUMDFS0603-100M	10.0	64.5	71.2	3.5	4.0	3.0
UUMDFS0603-150M	15.0	108.0	118.0	4.0	3.0	3.0
UUMDFS0603-220M	22.0	126.0	135.0	2.5	2.9	3.0

Typical performance curves :

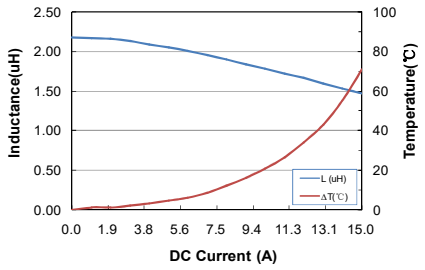
UUMDFS0603-1R0M



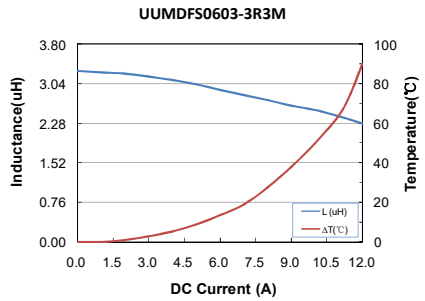
UUMDFS0603-1R5M



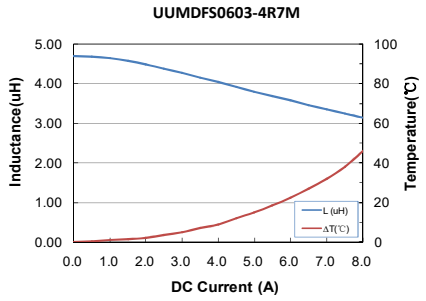
UUMDFS0603-2R2M



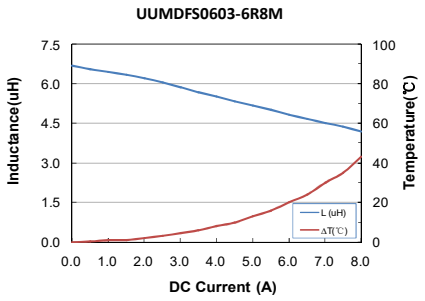
UUMDFS0603-3R3M



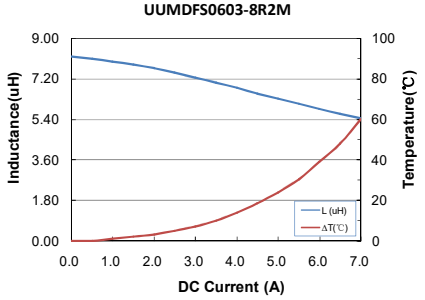
UUMDFS0603-4R7M



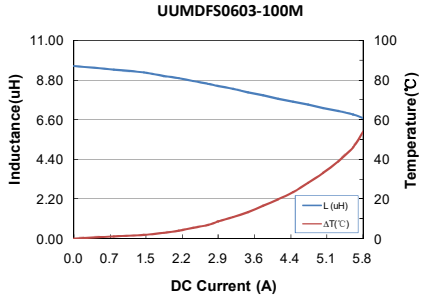
UUMDFS0603-6R8M



UUMDFS0603-8R2M



UUMDFS0603-100M



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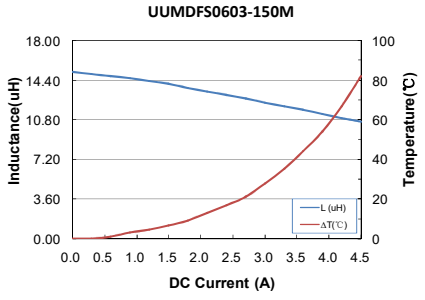
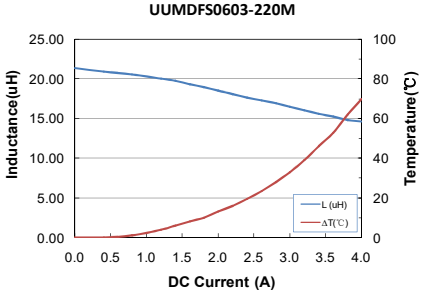


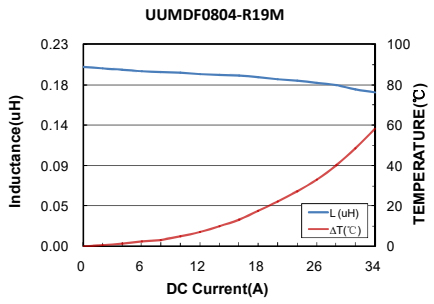
UUMDFS0603-220M

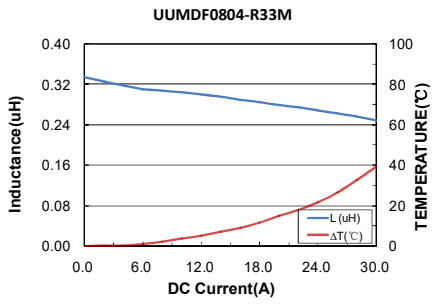


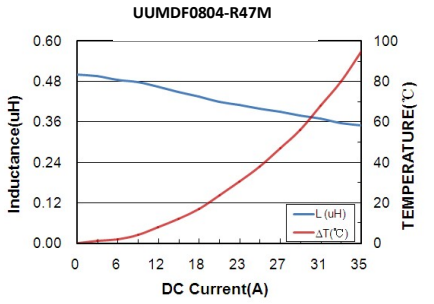
● UUMDF0804 series

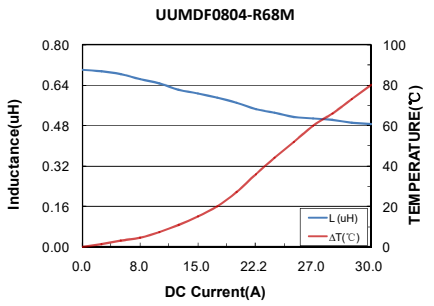
Part No.	Inductance @100kHz L_0 (uH)	DCR（mΩ）		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDF0804-R19M	0.19	1.18	1.35	22.0	34.0	3.0
UUMDF0804-R33M	0.33	1.60	2.15	16.0	27.5	3.0
UUMDF0804-R47M	0.47	2.22	2.38	14.0	25.0	3.0
UUMDF0804-R68M	0.68	2.90	3.22	14.5	22.2	3.0
UUMDF0804-R82M	0.82	2.81	3.88	15.0	19.5	3.0
UUMDF0804-1R0M	1.0	4.03	4.63	12.0	18.2	3.2
UUMDF0804-2R2M	2.2	8.8	9.41	10.2	14.5	3.2
UUMDF0804-3R3M	3.3	12.45	14.9	9.7	10.5	3.2
UUMDF0804-4R7M	4.7	19.8	22.6	8.7	8.0	3.2
UUMDF0804-5R6M	5.6	24.53	28.6	7.6	7.4	3.2
UUMDF0804-6R8M	6.8	28.34	33.4	6.7	7.0	3.2
UUMDF0804-8R2M	8.2	39.64	45	6.6	5.7	3.2
UUMDF0804-100M	10	44.15	51.8	6.4	5.4	3.2
UUMDF0804-150M	15	53.50	65.3	3.7	4.9	3.2
UUMDF0804-220M	22	70.47	94.2	3.3	4.3	3.2
UUMDF0804-330M	33	114.78	144	3.2	3.2	3.2

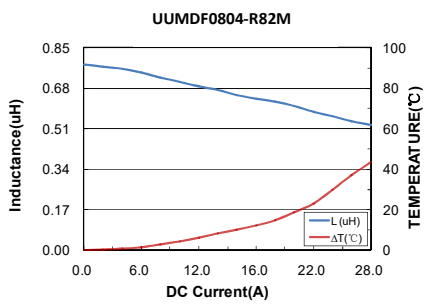
Typical performance curves :

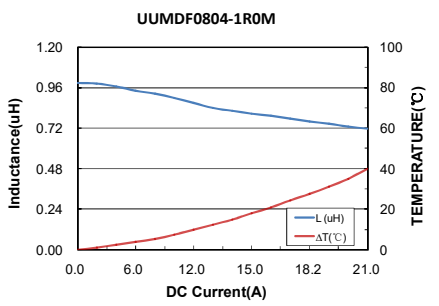




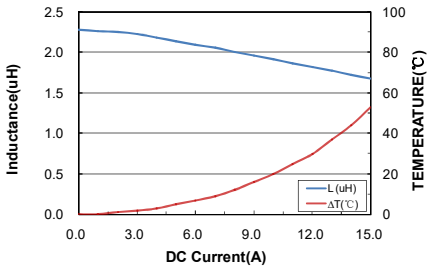




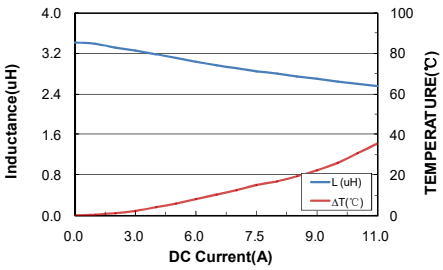




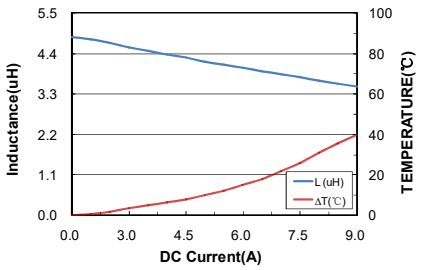
UUMDF0804-2R2M



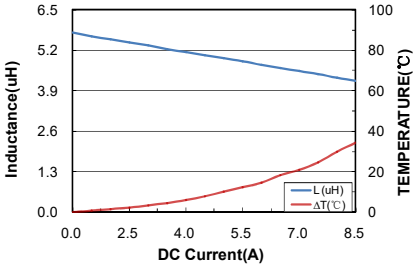
UUMDF0804-3R3M



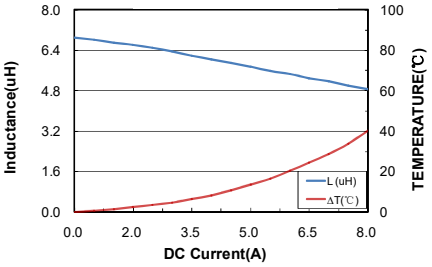
UUMDF0804-4R7M



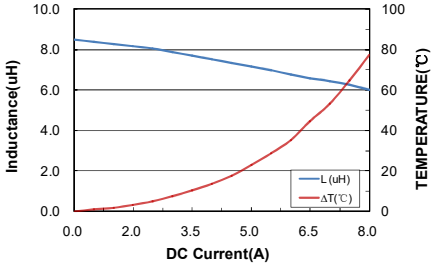
UUMDF0804-2R2M



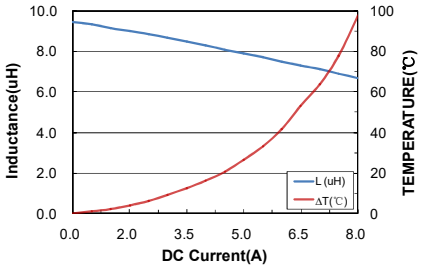
UUMDF0804-6R8M



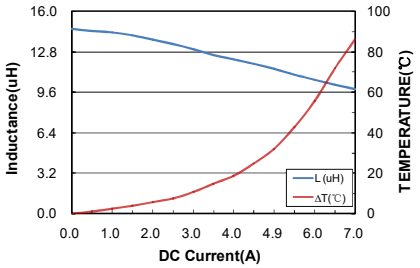
UUMDF0804-8R2M



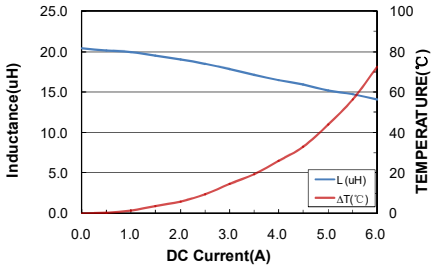
UUMDF0804-100M



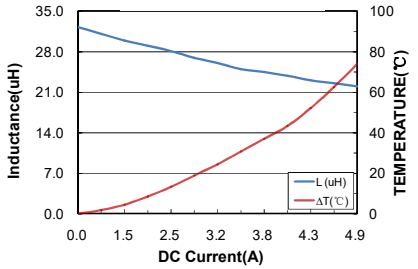
UUMDF0804-150M



UUMDF0804-220M



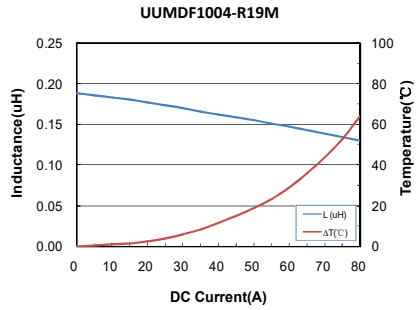
UUMDF0804-330M

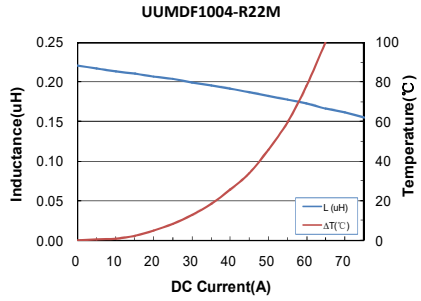


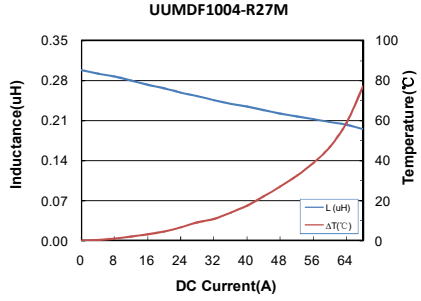
● UUMDF1004 series

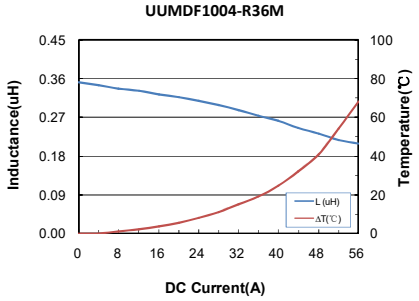
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDF1004-R19M	0.19	0.6	0.8	46.0	40.0	3.0
UUMDF1004-R22M	0.22	0.8	0.95	44.0	33.0	3.0
UUMDF1004-R27M	0.27	0.8	0.95	44.0	33.0	3.0
UUMDF1004-R36M	0.36	1.0	1.15	30.0	32.0	3.0
UUMDF1004-R47M	0.47	1.4	1.68	30.0	30.0	3.0
UUMDF1004-R56M	0.56	1.7	1.8	22.0	32.0	3.0
UUMDF1004-R68M	0.68	1.7	1.85	22.0	27.0	3.0
UUMDF1004-R82M	0.82	2.2	2.3	22.0	25.0	3.0
UUMDF1004-1R0M	1.0	2.5	3.3	20.0	25.0	3.0
UUMDF1004-1R5M	1.5	3.5	4.3	16.0	17.0	3.0
UUMDF1004-2R2M	2.2	7.8	8.5	12.0	15.0	3.0
UUMDF1004-4R7M	4.7	13.8	14.2	7.6	9.5	3.0
UUMDF1004-6R8M	6.8	18.7	19.3	7.5	9.0	3.0
UUMDF1004-8R2M	8.2	25.5	28.0	7.3	8.0	3.0
UUMDF1004-100M	10.0	28.3	30.5	7.1	7.5	3.0
UUMDF1004-150M	15.0	38.3	45.0	6.0	6.25	3.0
UUMDF1004-220M	22.0	61.3	66.0	4.5	5.0	3.0
UUMDF1004-330M	33.0	89.0	94.5	4.0	4.4	3.0
UUMDF1004-470M	47.0	129.1	145.0	3.0	3.3	3.0

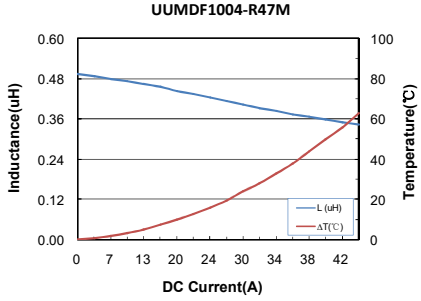
Typical performance curves :

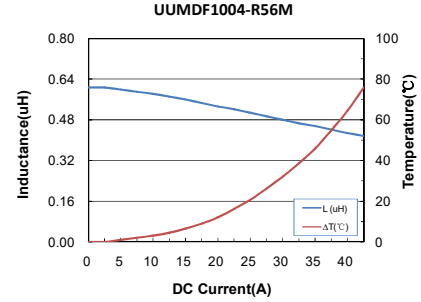




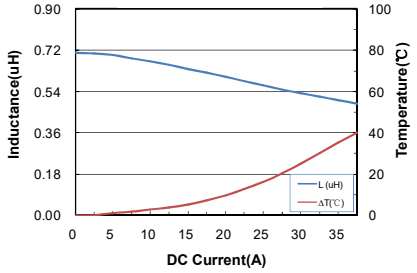




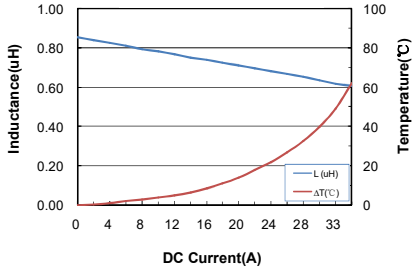




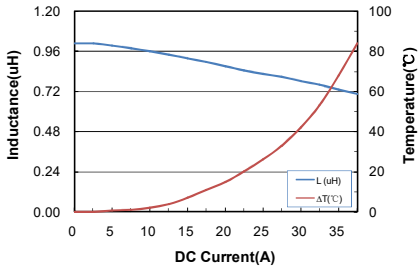
UUMDF1004-R36M



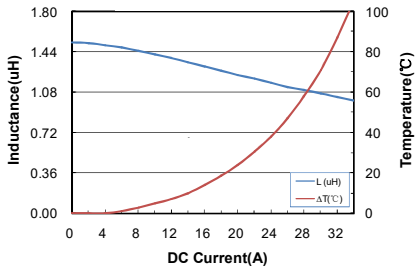
UUMDF1004-R82M



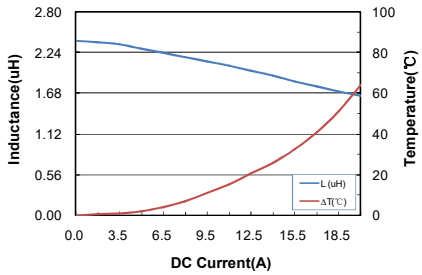
UUMDF1004-1R0M



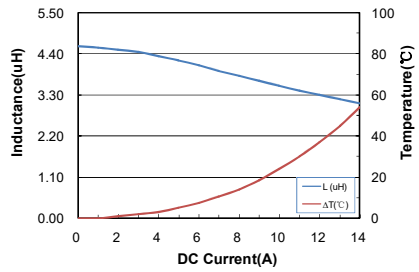
UUMDF1004-1R5M



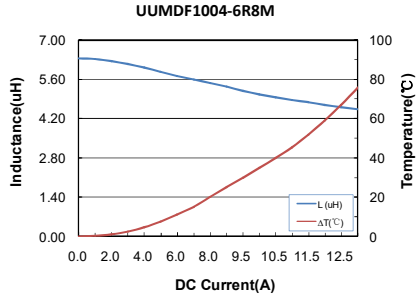
UUMDF1004-2R2M



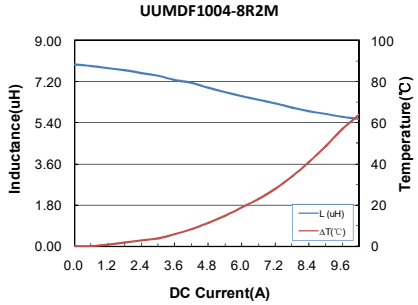
UUMDF1004-4R7M



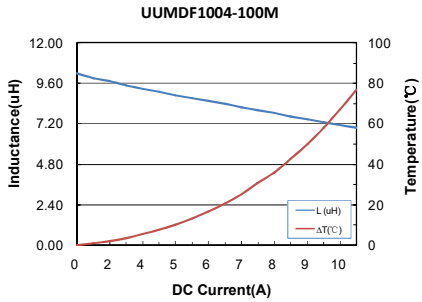
UUMDF1004-6R8M



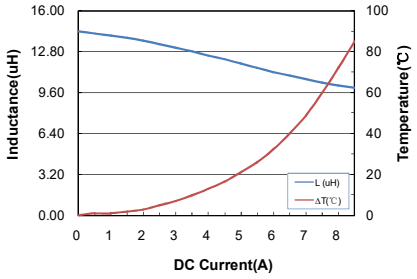
UUMDF1004-8R2M



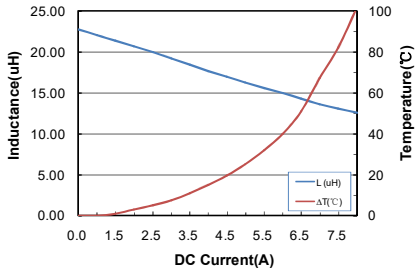
UUMDF1004-100M



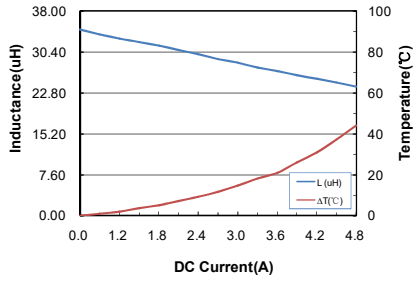
UUMDF1004-150M



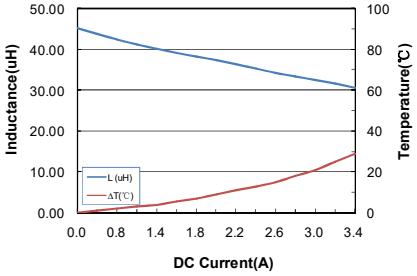
UUMDF1004-220M



UUMDF1004-330M



UUMDF1004-470M



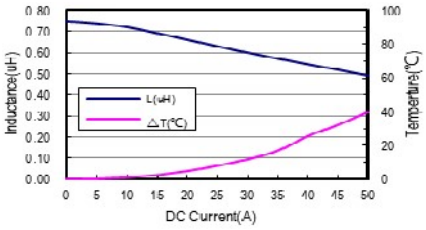
U&T ELECTRONICS, INC.

UUMDF1205 Serie

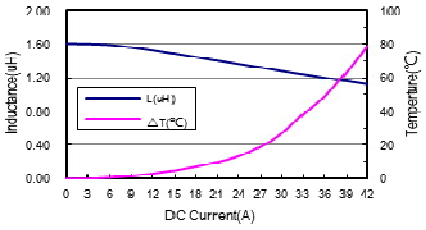
Part No.	Inductance @100KHZ L (uH)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.5
		Typical	Maximum			
UUMDF1205-R68M	0.68	1.52	1.70	35.0	34.0	3.0
UUMDF1205-1R5M	1.5	2.68	3.50	30.0	25.0	3.0
UUMDF1205-3R3M	3.3	8.37	9.20	22.0	15.0	3.0
UUMDF1205-6R8M	6.8	14.29	18.5	14.0	11.0	3.0

Typical performance curves :

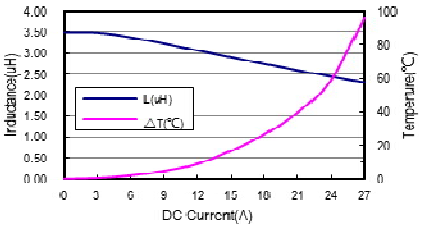
UUMDF1205-R68M



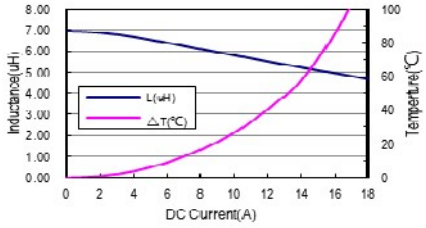
UUMDF1205-1R5M



UUMDF1205-3R3M



UUMDF1205-6R8M

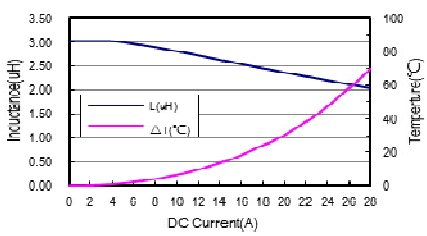


UUMDF1265 Serie

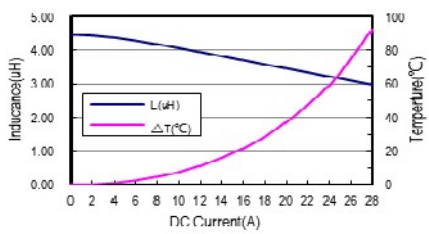
Part No.	Inductance @100KHZ L (uH)	Tolerance (±%)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.5
			Typical	Maximum			
UUMDF1265-3R3M	3.3	20	4.46	5.5	22.0	20.0	3.0
UUMDF1265-4R7M	4.7	20	6.06	7.5	21.0	18.0	3.0
UUMDF1265-5R6M	5.6	20	6.92	9.0	18.0	16.0	3.0

Typical performance curves :

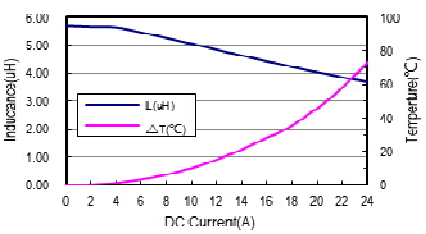
UUMDF1265-3R3M



UUMDF1265-4R7M



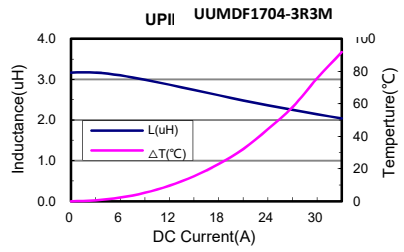
UUMDF1265-5R6M

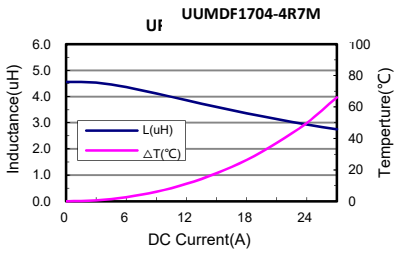


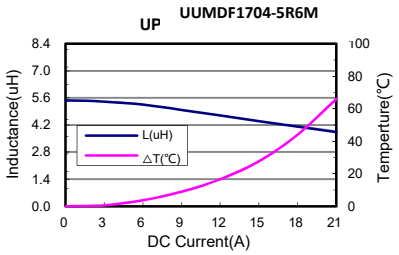
● UUMDF1704 Serie

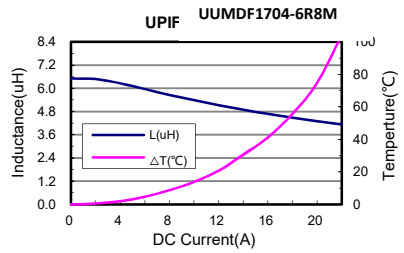
Part No.	Inductance @100KHZ L (uH)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.3
		Typical	Maximum			
UUMDF1704-4R7M	4.7	8.6	9.32	16	18	12
UUMDF1704-5R6M	5.6	11.53	12.2	14	15	12
UUMDF1704-6R8M	6.8	12.98	13.79	12	14.5	12
UUMDF1704-100M	10	16.9	18.9	12	12	12
UUMDF1704-330M	33	65.6	70.84	6	6.5	12
UUMDF1704-470M	47	89.5	108.5	5	5	12

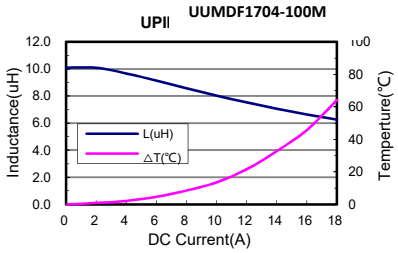
● Typical performance curves :

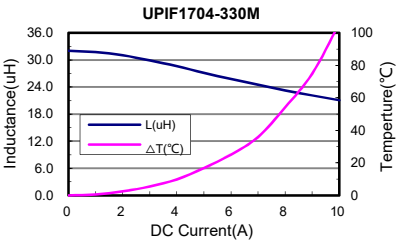


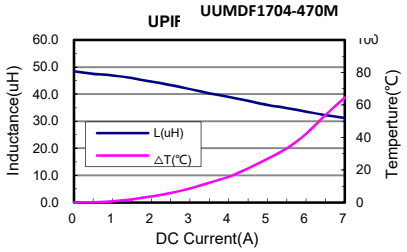








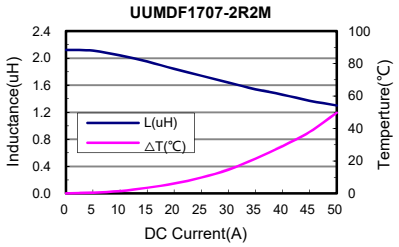


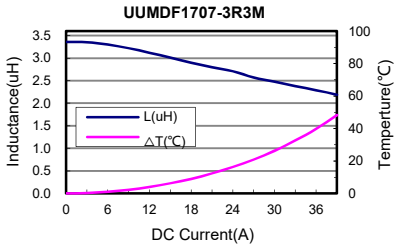


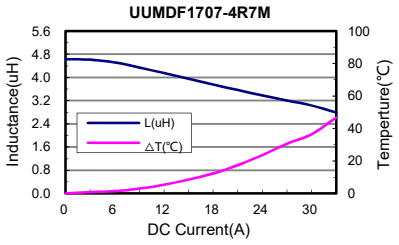
● UUMDF1707 Serie

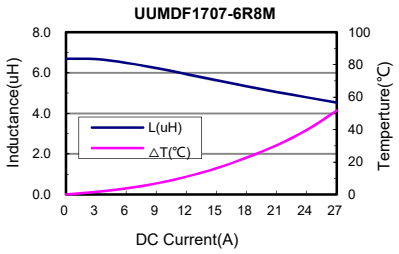
UUMDF1704-470M	Inductance @100KHZ	DCR (mΩ)		Isat (A)	Irms (A)	E mm
	L (uH)	Typical	Maximum	Typ	Typ	±0.3
UUMDF1707-2R2M	2.2	1.78	1.98	31	43.5	12
UUMDF1707-3R3M	3.3	2.65	2.93	27	35	12
UUMDF1707-4R7M	4.7	4.0	4.18	23	30	12
UUMDF1707-6R8M	6.8	5.56	6.15	21	22.5	12
UUMDF1707-100M	10	7.88	9.33	17	19	12
UUMDF1707-150M	15	13.8	14.4	14	14	12
UUMDF1707-220M	22	19.9	21	11.5	12	12
UUMDF1707-330M	33	31	37	9	10.7	12
UUMDF1707-470M	47	36	42.7	8.6	8.7	12
UUMDF1707-680M	68	70.22	75.7	7	6.1	12
UUMDF1707-820M	82	78.04	91.7	6.2	5.5	12

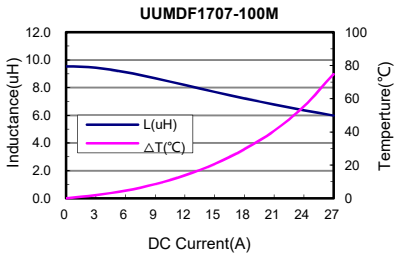
● Typical performance curves :

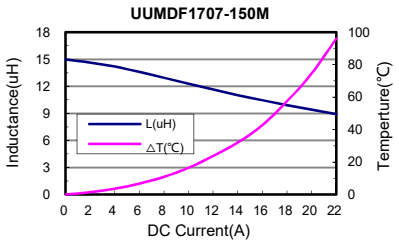


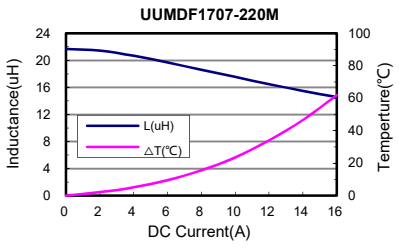


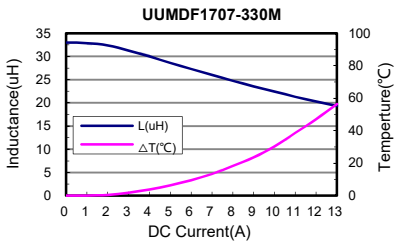


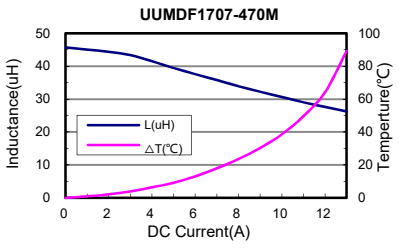


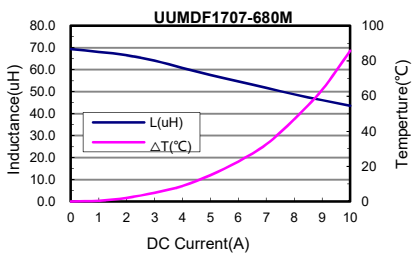


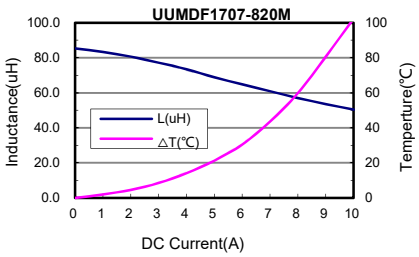








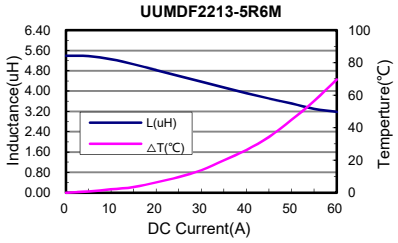


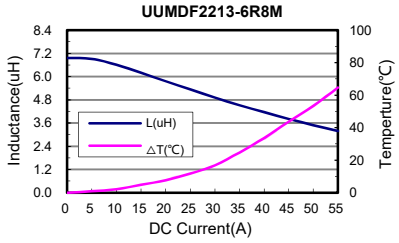


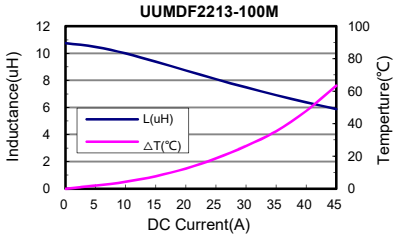
UUMDF2213 Serie

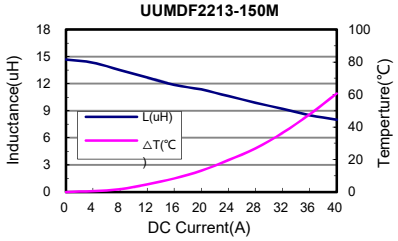
Part No.	Inductance @100KHZ L (uH)	Tolerance (±%)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.3
			Typical	Maximum			
UUMDF2213-5R6M	5.6	20	2.06	2.3	38	40	18.5
UUMDF2213-6R8M	6.8	20	2.52	3.09	36	36	18.5
UUMDF2213-100M	10	20	3.57	4.14	28	28	18.5
UUMDF2213-150M	15	20	4.89	6.11	24	23.5	18.5
UUMDF2213-220M	22	20	8.5	10.8	22	20	18.5
UUMDF2213-330M	33	20	13.5	15.4	17	15	18.5
UUMDF2213-470M	47	20	15.9	17.7	15	15	18.5
UUMDF2213-820M	82	20	30.57	34.2	12	10.2	18.5
UUMDF2213-101M	100	20	37.8	40	10	9.5	18.5

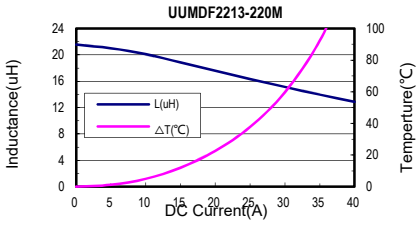
Typical performance curves :

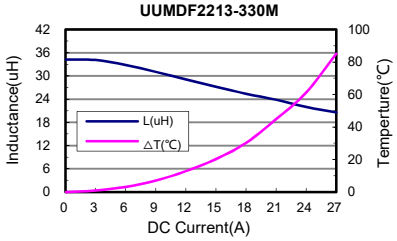


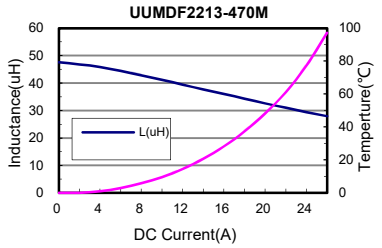


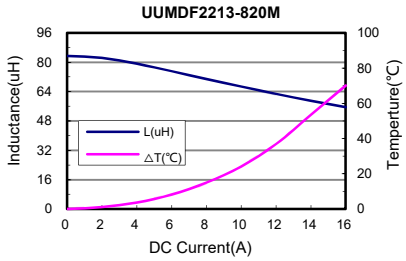


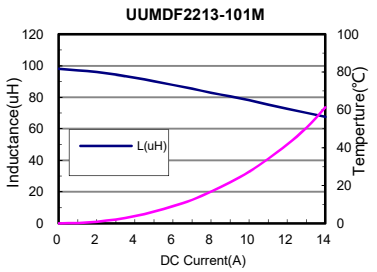












UUMDF SERIES

ULTRA HIGH CURRENT SMT POWER INDUCTOR.

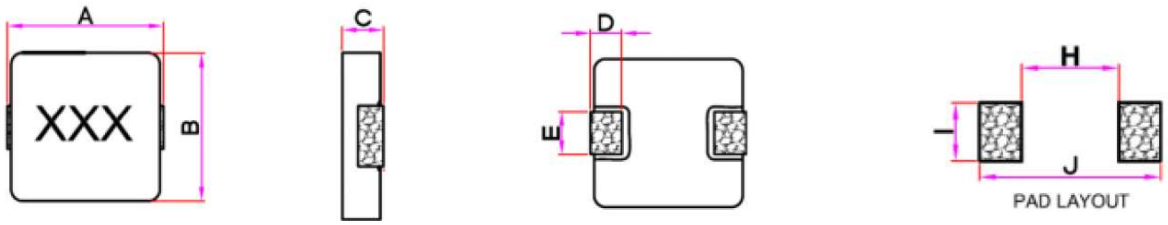
Applications:

. PDA/Notebook/Desktop, and server applications.

. DC/DC converters in distributed power systems.

. DC/DC converter for Field Programmable Gate Array(FPGA).

Shape and Dimensions(Dimensions are in mm) :



Item	A	B	C	D	E	H	I	J
UUMDF0603W	7.0±0.3	6.6±0.2	2.8±0.2	1.6±0.3	3.0±0.3	3.7	3.5	8.4
UUMDF1004W	11.5MAX	10.0±0.3	3.8±0.2	2.0±0.5	3.0±0.5	5.4	4.1	13.6
UUMDF1005W	11.5MAX	10.0±0.3	3.8±0.2	2.0±0.5	3.0±0.5	5.4	4.1	13.6

Features :

. Low profile and low DCR.

. Shielded construction.

. handles high transient current spikes without saturation

. **F** type frequency up to **3MHz.**

. Ultra low buzz noise, due to composite construction.

. RoHS compliant.

Product Identification:

UUMD F 0603W – 2R2 M

(1) (2) (3) (4) (5)

(1) Series

(2) Style: **F**-Powder Type

(3) Dimensions: **0603W** is size.

(4) Inductance: **2R2** for **2.2** uH.

(5) Inductance tolerance: **M**: ± 20%.

Characteristics:

. Saturation Current (Isat) : The current causes L_0 dropped approximately 30% typically.

. Temperature Rise Current(Irms) : The current causes the coil temperature rised approximately △T=40℃without core Loss.

. Operating Temperature : -55℃ to 125℃.

Test equipments:

. L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source.

. DCR tested by Milli-ohm meter.

. Electrical specifications at 25℃.

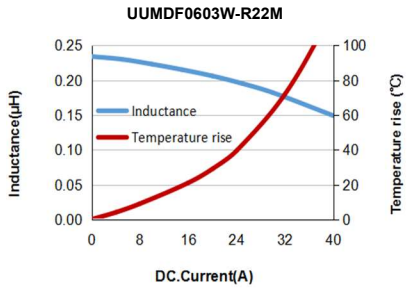
Handling and precautions:

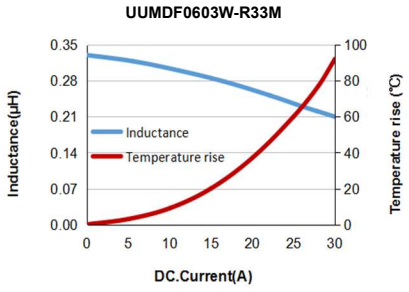
. Please contact us before cleaning this product.

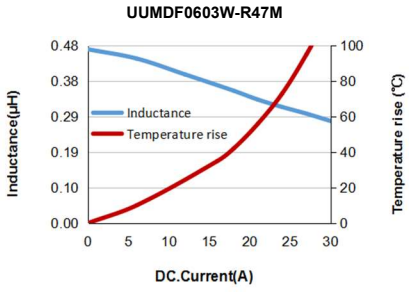
UUMDF0603W Series

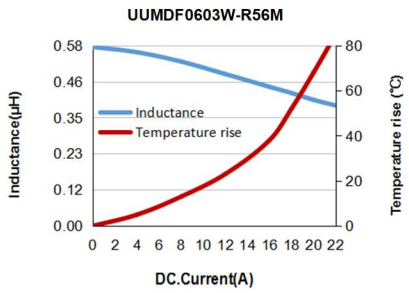
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		Isat (A) Typ	Irms (A) Typ	E mm ±0.5
		Typical	Maximum			
UUMDF0603W-R22M	0.22	2.5	3.0	34.0	24.0	3.0
UUMDF0603W-R33M	0.33	3.0	3.5	25.0	21.0	3.0
UUMDF0603W-R47M	0.47	3.5	4.1	20.0	18.0	3.0
UUMDF0603W-R56M	0.56	3.8	4.5	18.0	16.5	3.0
UUMDF0603W-R68M	0.68	4.5	5.3	17.0	16.0	3.0
UUMDF0603W-R82M	0.82	5.1	6.0	16.0	14.0	3.0
UUMDF0603W-1R0M	1.0	6.4	7.4	15.0	12.0	3.0
UUMDF0603W-1R5M	1.5	10.1	12.1	12.0	12.0	3.0
UUMDF0603W-2R2M	2.2	13.2	15.0	10.0	9.5	3.0
UUMDF0603W-3R3M	3.3	19.1	22.0	9.5	8.5	3.0
UUMDF0603W-4R7M	4.7	29.4	33.0	9.0	6.0	3.0
UUMDF0603W-5R6M	5.6	36.8	42.0	6.5	5.5	3.0
UUMDF0603W-6R8M	6.8	44.0	48.0	6.0	5.0	3.0
UUMDF0603W-8R2M	8.2	56.0	60.0	5.5	5.0	3.0
UUMDF0603W-100M	10	60.0	68.0	5.5	4.5	3.0
UUMDF0603W-150M	15	100	113	4.0	3.0	3.0
UUMDF0603W-220M	22	138	170	3.0	2.5	3.0
UUMDF0603W-330M	33	183	270	2.5	2.0	3.0
UUMDF0603W-470M	47	354	385	2.0	1.5	3.0

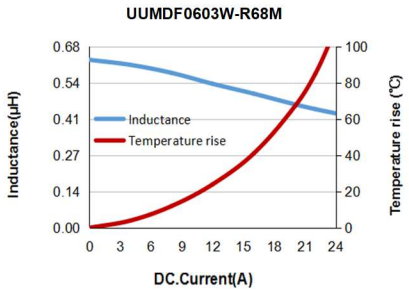
Typical performance curves :

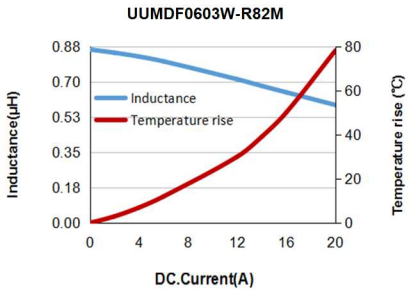




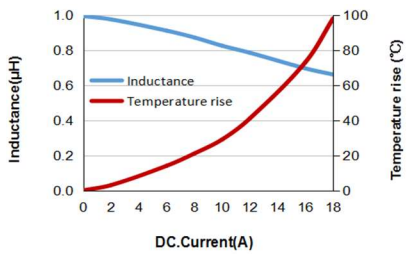




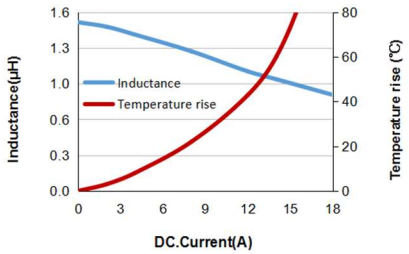




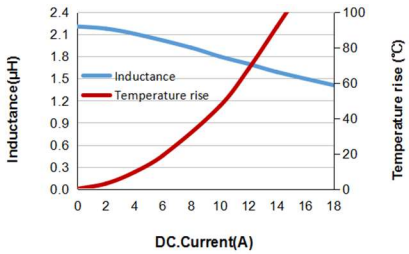
UUMDF0603W-1R0M



UUMDF0603W-1R5M



UUMDF0603W-2R2M



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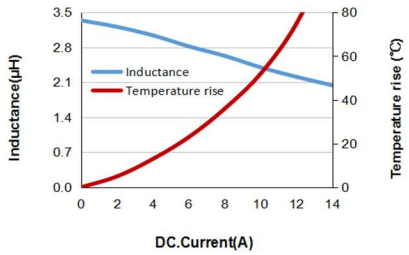

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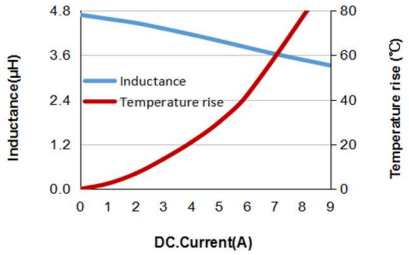

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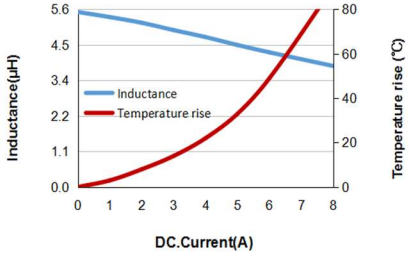

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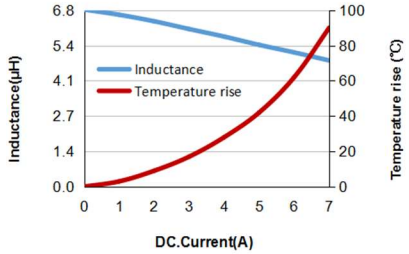
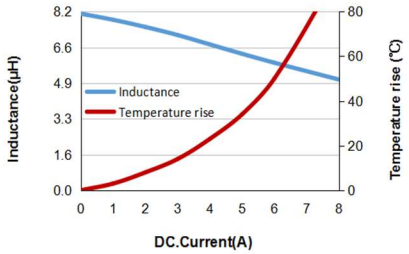
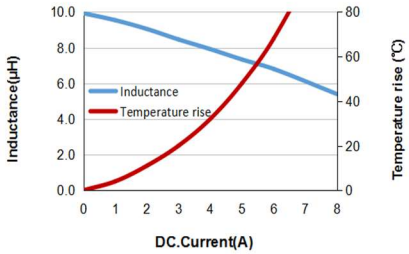


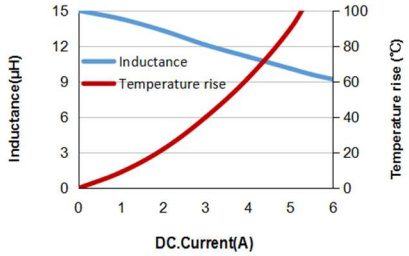
UUMDF0603W-8R2M



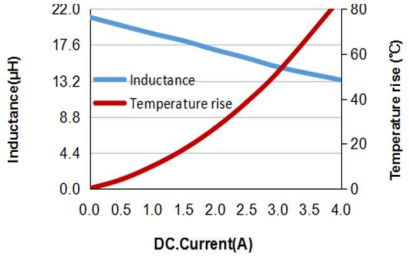
UUMDF0603W-100M



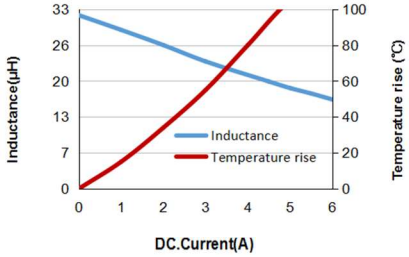
UUMDF0603W-150M



UUMDF0603W-220M



UUMDF0603W-330M



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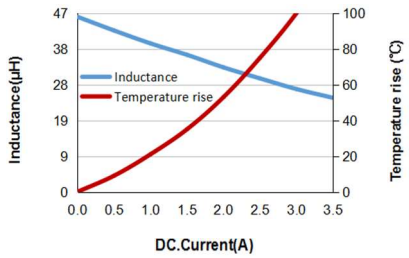
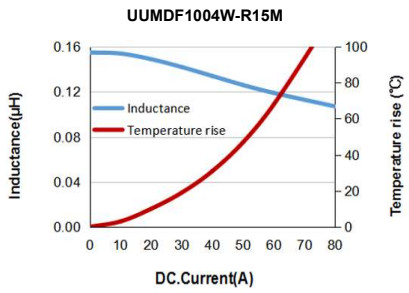
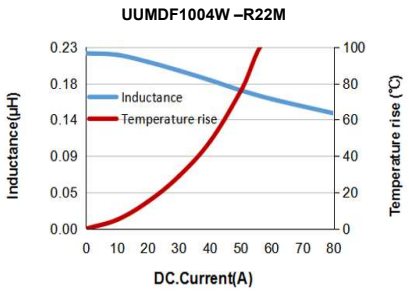


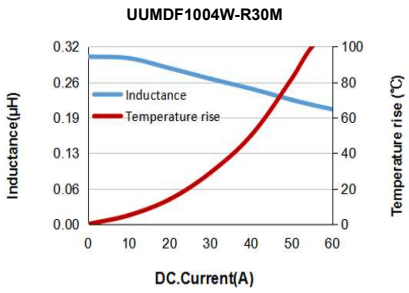
● UUMDF1004W Series

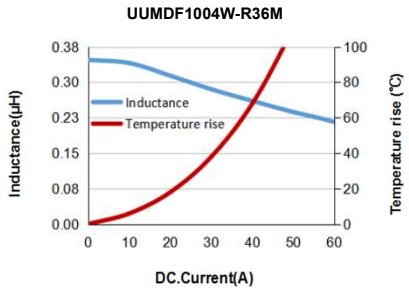
Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDF1004W-R15M	0.15	0.52	0.65	75.0	45.0	3.0
UUMDF1004W-R22M	0.22	0.87	1.0	60.0	35.0	3.0
UUMDF1004W-R30M	0.30	0.95	1.1	45.0	35.0	3.0
UUMDF1004W-R36M	0.36	1.07	1.2	45.0	30.0	3.0
UUMDF1004W-R47M	0.47	1.56	1.7	40.0	30.0	3.0
UUMDF1004W-R56M	0.56	1.64	1.8	33.0	25.0	3.0
UUMDF1004W-R68M	0.68	2.1	2.4	30.0	23.0	3.0
UUMDF1004W-R80M	0.80	2.5	2.7	29.0	23.0	3.0
UUMDF1004W-1R0M	1.0	2.9	3.3	28.0	19.0	3.0
UUMDF1004W-1R5M	1.5	3.7	4.2	24.0	16.0	3.0
UUMDF1004W-2R2M	2.2	5.8	7.0	16.5	12.0	3.0
UUMDF1004W-3R3M	3.3	10.0	11.8	16.0	11.0	3.0
UUMDF1004W-4R7M	4.7	17.3	20.0	13.0	9.0	3.0
UUMDF1004W-6R8M	6.8	22.5	25.0	12.0	8.5	3.0
UUMDF1004W-8R2M	8.2	24.7	27.0	9.0	8.0	3.0
UUMDF1004W-100M	10	26.8	30.0	8.5	7.8	3.0
UUMDF1004W-150M	15	39.0	45.0	7.0	6.5	3.0
UUMDF1004W-220M	22	56.7	66.0	5.5	5.0	3.0
UUMDF1004W-330M	33	78.0	92.0	4.8	4.4	3.0
UUMDF1004W-470M	47	125	145	3.5	3.3	3.0
UUMDF1004W-680M	68	167	195	3.0	2.5	3.0
UUMDF1004W-101M	100	290	340	2.5	2.0	3.0

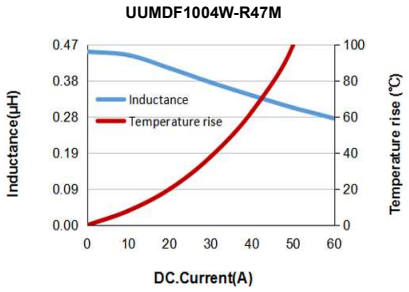
Typical performance curves :

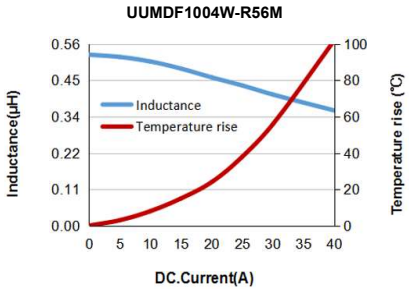












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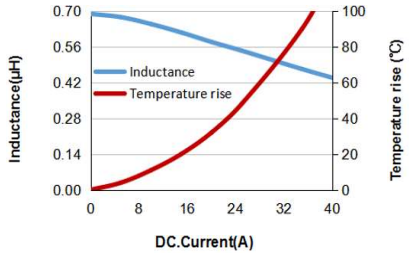

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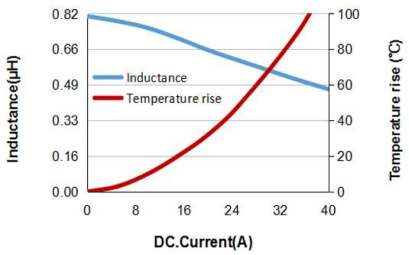

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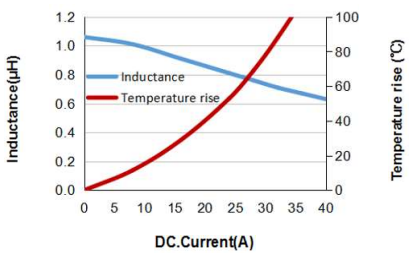

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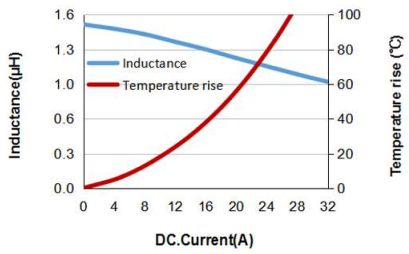

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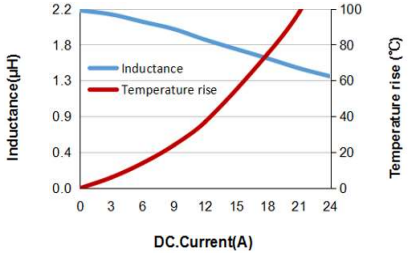

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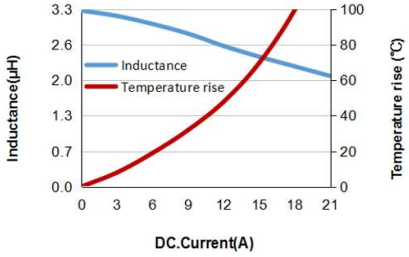

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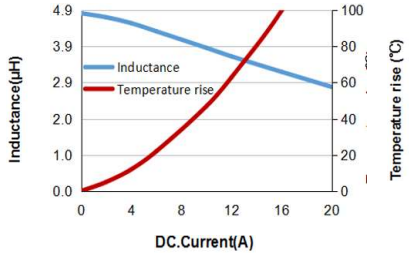

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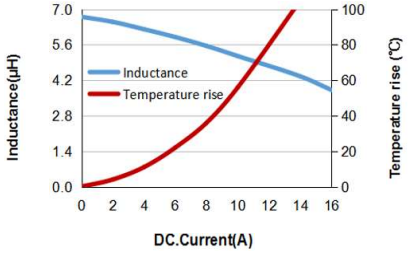

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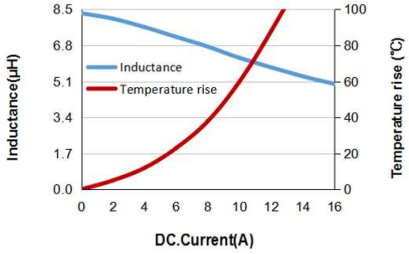

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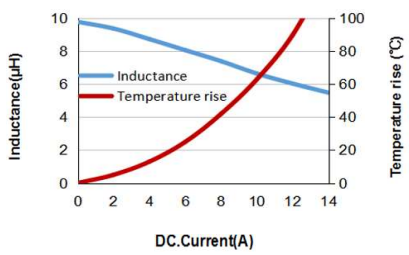

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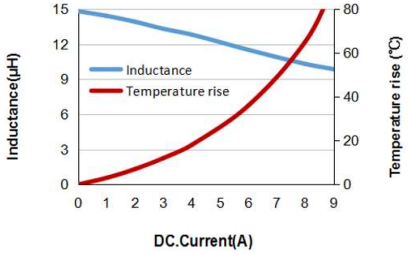

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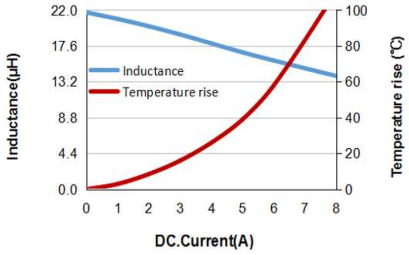

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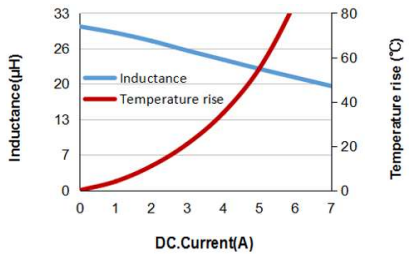

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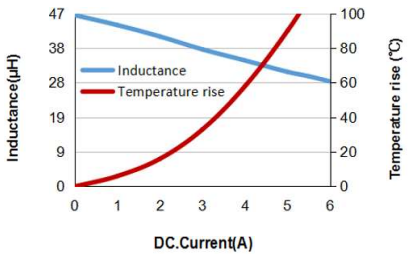

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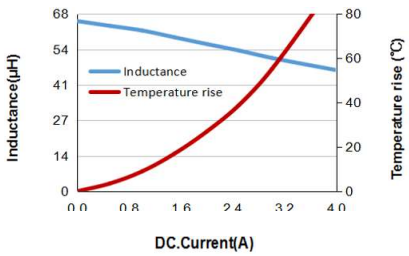

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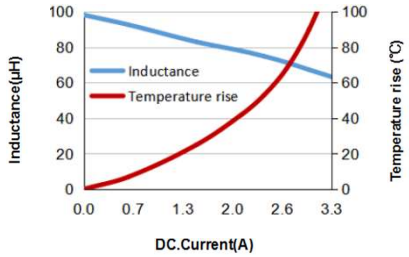
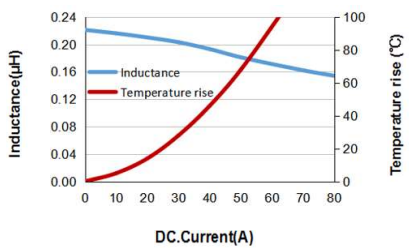


● UUMDF1005W Series

Part No.	Inductance @100kHz L_0 (uH)	DCR (mΩ)		I sat (A) Typ.	I rms (A) Typ.	E mm ±0.5
		Typical	Maximum			
UUMDF1005W-R22M	0.22	0.68	0.8	65.0	37.0	3.0
UUMDF1005W-1R0M	1.0	2.6	3.0	30.0	23.0	3.0
UUMDF1005W-1R5M	1.5	3.2	3.8	25.0	21.0	3.0
UUMDF1005W-2R2M	2.2	4.5	6.0	19.0	15.0	3.0
UUMDF1005W-3R3M	3.3	8.4	10.0	16.0	13.0	3.0
UUMDF1005W-4R7M	4.7	12.5	14.0	15.0	11.0	3.0
UUMDF1005W-5R6M	5.6	14.5	17.0	14.0	9.5	3.0
UUMDF1005W-6R8M	6.8	16.4	18.5	14.0	9.0	3.0
UUMDF1005W-100M	10	23.5	28.0	10.0	8.0	3.0
UUMDF1005W-150M	15	34.7	42.0	7.5.0	6.5	3.0
UUMDF1005W-220M	22	45.0	50.0	6.0	5.5	3.0
UUMDF1005W-330M	33	73.4	86.0	5.2	4.8	3.0
UUMDF1005W-470M	47	115.4	127	4.5	3.7	3.0
UUMDF1005W-101M	100	267	290	2.8	2.1	3.0

Typical performance curves:

UUMDF1005W-R22M



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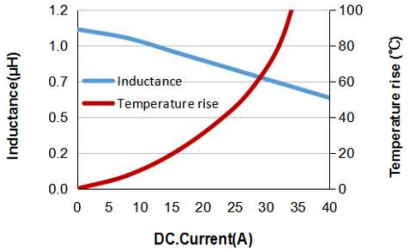

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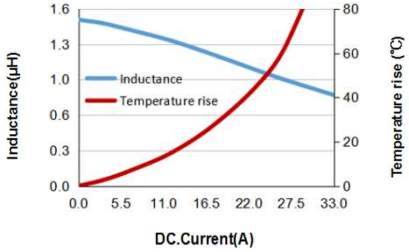

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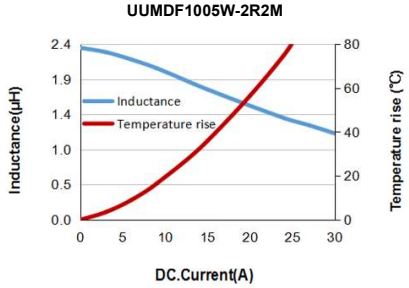

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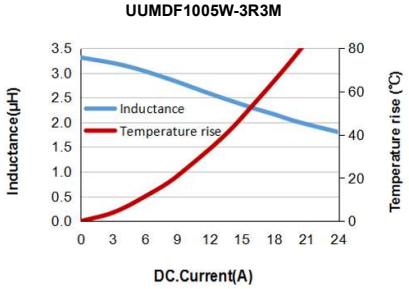

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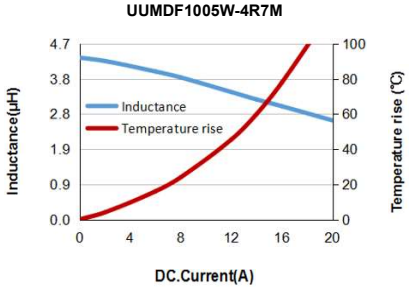

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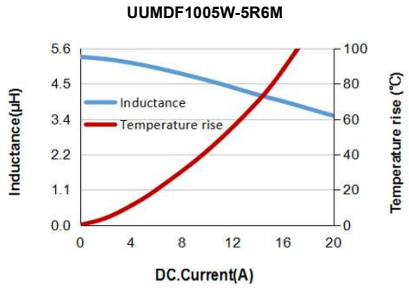

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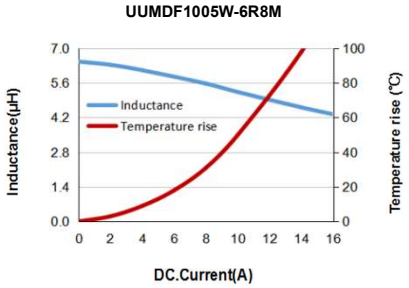

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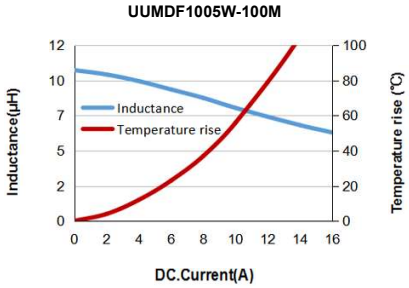

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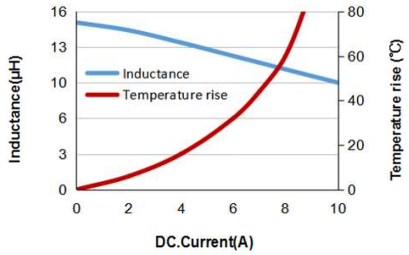

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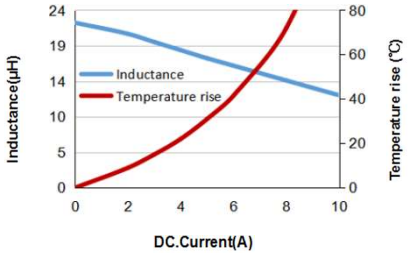

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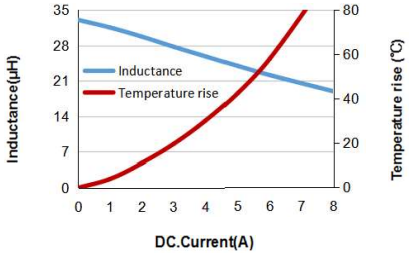

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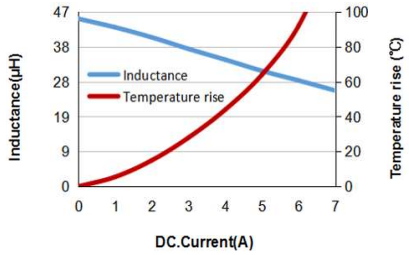

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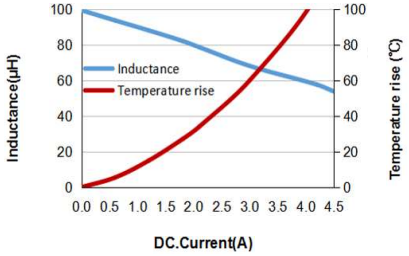
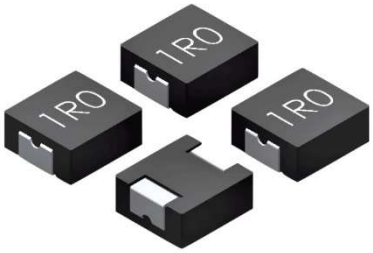


UAMD03&04 SERIES

HIGH POWER INDUCTOR

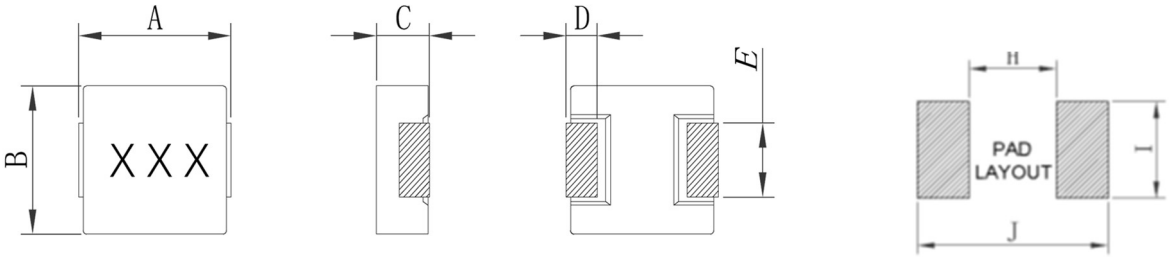


Applications:

. Automotive reliability comply with **AEC-Q200** grade 0

- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors
- LED drivers

Shape and Dimensions (Dimensions are in mm)



Item	A	B	C	D	E	H	I	J
UAMD0312	3.4±0.2	3.0±0.2	1.0±0.2	0.7±0.3	1.3±0.2	1.2	2.0	4.2
UAMD0302	3.4±0.2	3.0±0.2	1.8±0.2	0.7±0.3	1.3±0.2	1.2	2.0	4.2
UAMD0412	4.4±0.2	4.0±0.2	1.0±0.2	0.76±0.3	2.0±0.3	2.16	2.3	4.95
UAMD0402	4.4±0.2	4.0±0.2	1.8±0.2	0.76±0.3	2.0±0.3	2.16	2.3	4.95

Features :

. High performance (I sat) realized by metal dust core.

. Low profile: 1.2~2.0mm

. Low loss realized with low DCR

. Compliance with RoHS and Halogen Free

Product Identification:

UAMD 0312 – 1R0 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for 1.0uH

(4) Tolerance: **M** : ± 20%.

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃

. Operating Temperature : -55℃ to 155℃.

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UAMD03 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UAMD0312-R33M	0.33	20	16	18	9.0	7.0	7.0	6.0
UAMD0312-1R0M	1.0	20	38	45	4.8	4.0	3.5	3.0
UAMD0312-1R5M	1.5	20	63	75	3.6	3.2	3.0	2.5
UAMD0312-2R2M	2.2	20	82	102	2.8	2.4	2.2	2.0
UAMD0312-3R3M	3.3	20	135	160	2.5	2.0	2.0	1.8
UAMD0312-4R7M	4.7	20	150	180	2.2	1.8	1.6	1.4
UAMD0302-1R0M	1.0	20	26	32	6.0	5.0	4.2	3.8
UAMD0302-1R5M	1.5	20	36	45	5.0	4.5	3.6	3.2
UAMD0302-2R2M	2.2	20	60	72	4.0	3.5	3.0	2.5
UAMD0302-3R3M	3.3	20	81	100	3.2	2.8	2.4	2.0
UAMD0302-4R7M	4.7	20	118	140	2.6	2.2	2.0	1.6
UAMD0302-6R8M	6.8	20	152	180	2.2	1.8	1.4	1.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

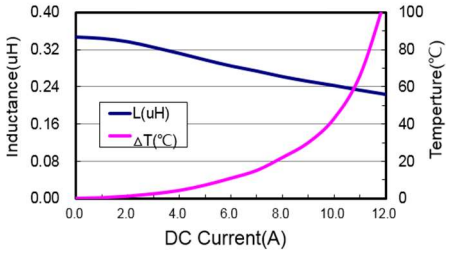
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

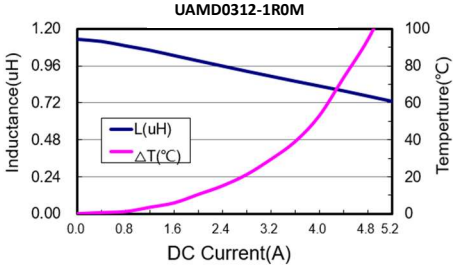
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:

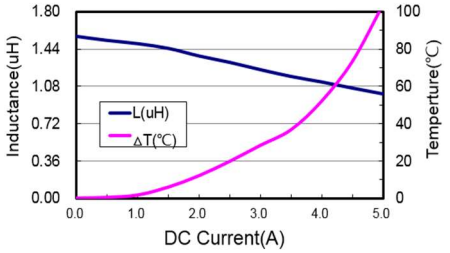
UAMD0312-R33M



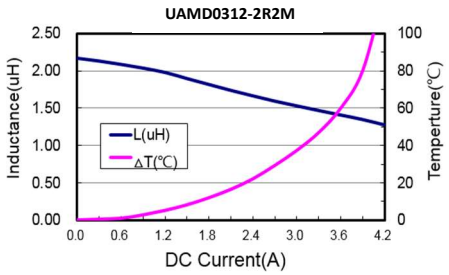
UAMD0312-1R0M



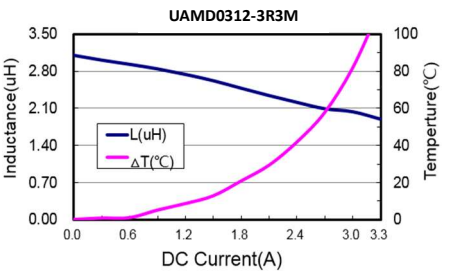
UAMD0312-1R5M



UAMD0312-2R2M



UAMD0312-3R3M



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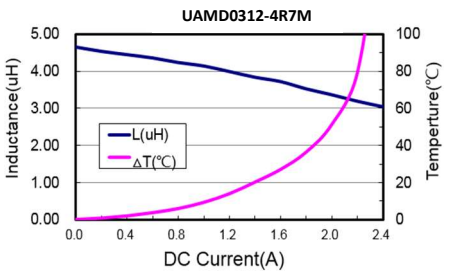
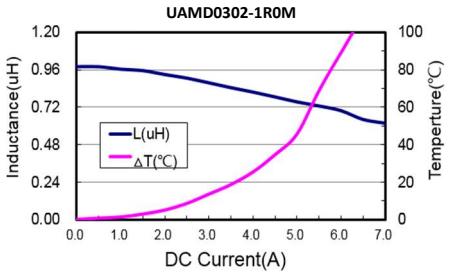


UAMD0302-1R0M



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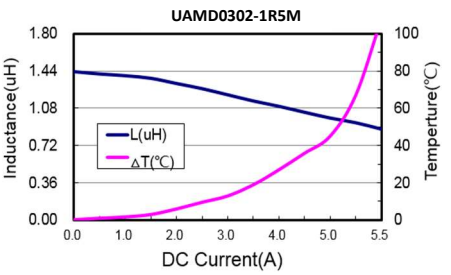

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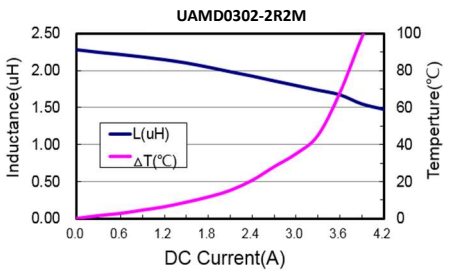
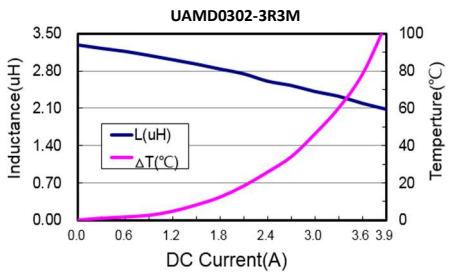
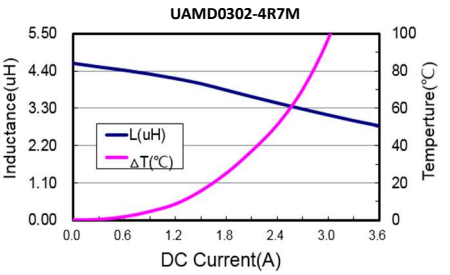


UAMD0302-3R3M



UAMD0302-4R7M



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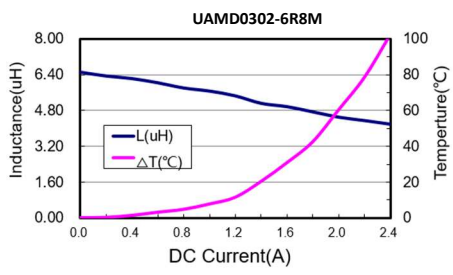


UAMD04 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UAMD0412-R22M	0.22	20	9	11	12	10	9	7.5
UAMD0412-R47M	0.47	20	16	20	10	8.0	8.0	7.0
UAMD0412-1R0M	1.0	20	36	43	6.5	5.5	4.5	4.0
UAMD0412-2R2M	2.2	20	72	80	4.2	3.8	3.5	2.8
UAMD0402-R47M	0.47	20	12	14	11	10	8.5	7.5
UAMD0402-1R0M	1.0	20	13	16	7.5	6.0	6.5	5.5
UAMD0402-2R2M	2.2	20	32	38	5.0	4.2	4.0	3.5
UAMD0402-4R7M	4.7	20	60	70	4.5	3.5	2.5	2.0
UAMD0402-100M	10	20	150	190	2.2	1.7	1.5	1.2
UAMD0402-150M	15	20	250	290	1.8	1.5	1.3	1.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

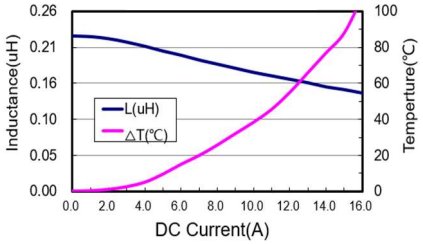
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

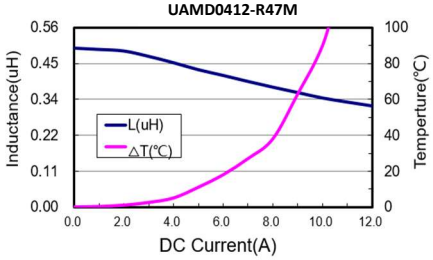
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:

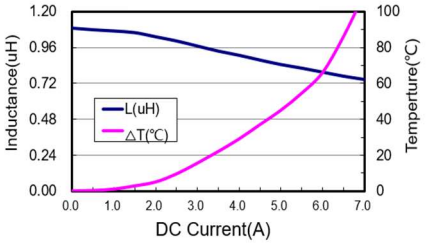
UAMD0412-R22M



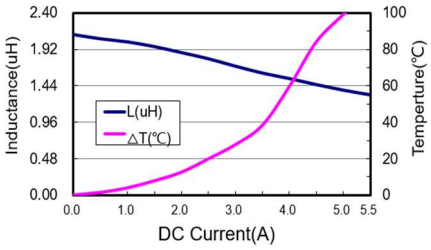
UAMD0412-R47M



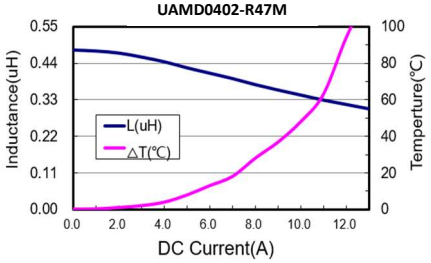
UAMD0412-1R0M



UAMD0412-2R2M



UAMD0402-R47M



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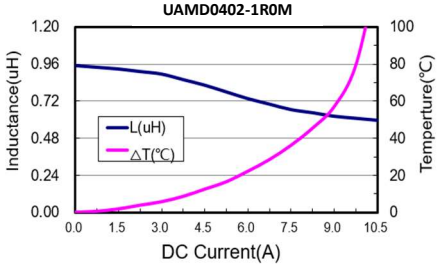

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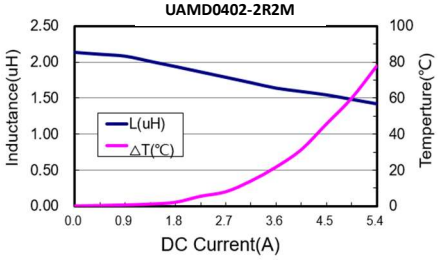

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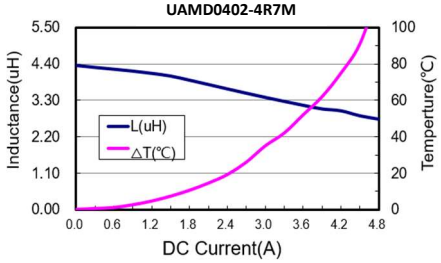
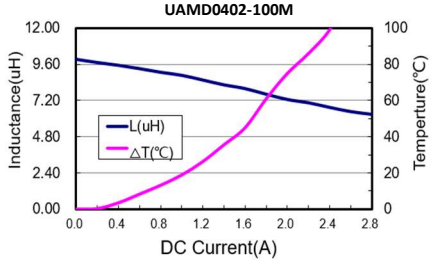
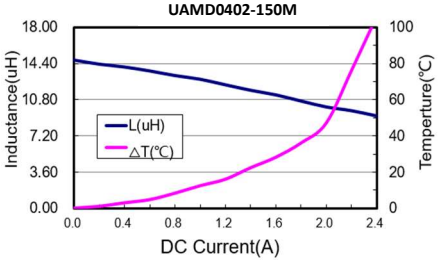


UAMD0402-100M

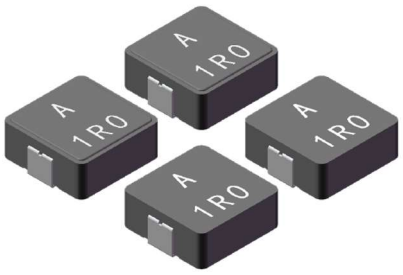


UAMD0402-150M



UAUMD SERIES

HIGH POWER INDUCTOR



Applications:

- Automotive reliability comply with **AEC-Q200** grade 1
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors
- LED drivers

Shape and Dimensions(Dimensions are in mm)

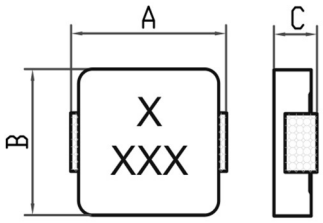


Figure 1

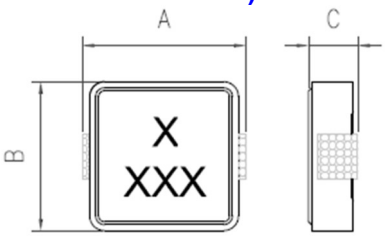
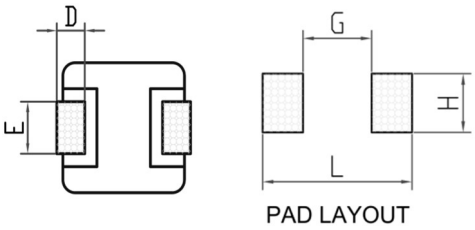


Figure 2



Item	A Max	B Max	C Max	D	E	G	H	L	**Figure**
UAUMD0603	7.10±0.2	6.60±0.2	2.80±0.2	1.60±0.3	3.00±0.5	3.70	3.50	8.00	1
UAUMD0604	7.10±0.2	6.60±0.2	3.80±0.2	1.60±0.3	3.00±0.5	3.70	3.50	8.00	1
UAUMD0804	8.60±0.3	8.0±0.25	3.80±0.2	1.80±0.3	3.20±0.5	4.60	3.80	10.6	1
UAUMD0854	8.60±0.3	8.0±0.25	5.20±0.2	1.80±0.3	3.20±0.5	4.60	3.80	10.6	1
UAUMD1004	11.0±0.5	10.0±0.3	3.80±0.2	2.30±0.3	3.00±0.5	5.40	4.50	12.4	2
UAUMD1005	11.0±0.5	10.0±0.3	4.80±0.2	2.30±0.3	3.00±0.5	5.40	4.50	12.4	2
UAUMD1054	11.0±0.5	10.0±0.3	5.20±0.2	2.30±0.3	3.00±0.5	5.40	4.50	12.4	2
UAUMD1205	13.4±0.5	12.6±0.3	4.80±0.2	2.30±0.3	3.00±0.5	8.00	5.00	14.5	1
UAUMD1265	13.4±0.5	12.6±0.3	6.30±0.2	2.30±0.3	3.00±0.5	8.00	5.00	14.5	1
UAUMD1707	17.3±0.5	17.0±0.3	6.70±0.3	2.10±0.3	12.0±0.3	11.7	12.2	18.0	1

Features :

. High performance (I sat)realized by metal dust core.

. Low loss realized with low DCR.

. Compliance with ROHS and Halogen Free

Product Identification:

UAUMD 0603 – 1R0 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for **1.0** uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (I sat) : The current will cause L0 to drop approximately 30% typical

. Temperature Rise(Irms) : The current will cause the coil temperature rise approximately △T=40℃.

. Operating Temperature : -55 ℃ to 155 ℃

Test equipments:

. L : Wayne kerr 3260B LCR meter
Wayne kerr 3265B bias current source.

. DCR:Chroma16502 Milliohm Meter

. IWT test: CHROMA 19301(A).(Impulse winding test)

● UAUMD 0603 Serie

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A)	Isat (A)	Irms (A)	Irms (A)	E mm
		Typical	Maximum	Typ	Max	Typ	Max	±0.5
UAUMD0603-R47M	0.47	3.7	4.2	24.0	21.0	16.0	15.0	3.0
UAUMD0603-1R0M	1.0	7.0	8.0	20.0	17.0	15.0	12.0	3.0
UAUMD0603-2R2M	2.2	14.5	16.5	13.0	11.0	10.0	9.0	3.0
UAUMD0603-3R3M	3.3	23.5	26	12.0	10.0	8.0	7.0	3.0
UAUMD0603-4R7M	4.7	30.5	40	11.0	9.0	6.5	5.5	3.0
UAUMD0603-6R8M	6.8	45.0	48	7.0	6.0	5.5	4.5	3.0
UAUMD0603-100M	10.0	57.0	80	6.0	5.0	5.0	4.0	3.0
UAUMD0603-150M	15.0	110	118	4.5	3.8	3.5	3.3	3.0
UAUMD0603-220M	22.0	130	145	4.0	3.5	3.3	3.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

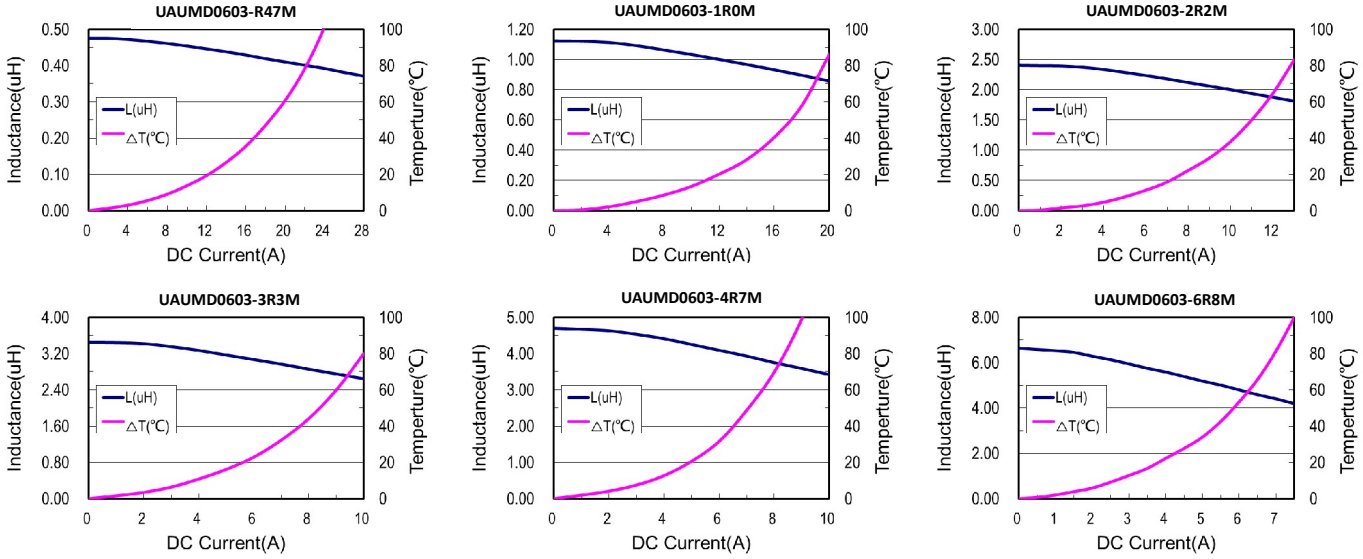
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

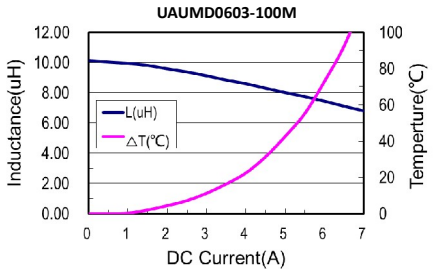
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

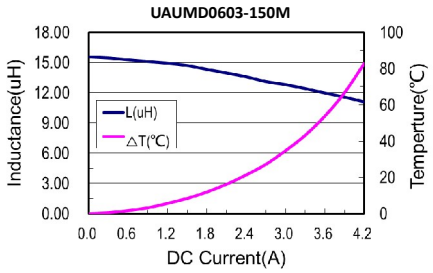
Note 4: Operating Temperature range includes self-temperature rise

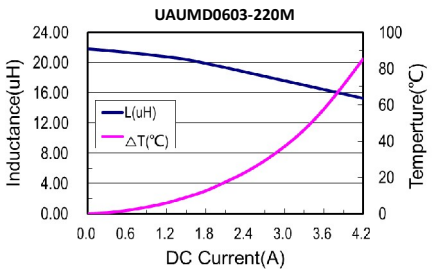
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:









● UAUMD0604 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A)	Isat (A)	Irms (A)	Irms (A)	E mm
		Typical	Maximum	Typ	Max	Typ	Max	±0.5
UAUMD0604-2R2M	2.2	12.0	14.5	16.0	13.0	11.0	9.0	3.0
UAUMD0604-100M	10.0	52.5	63.0	5.0	4.5	4.5	4.0	3.0
UAUMD0604-150M	15.0	74.0	87.0	4.5	3.8	3.8	3.6	3.0
UAUMD0604-220M	22.0	146.5	170.0	4.0	3.5	3.0	2.7	3.0
UAUMD0604-330M	33.0	165.0	200.0	3.6	3.0	2.8	2.6	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

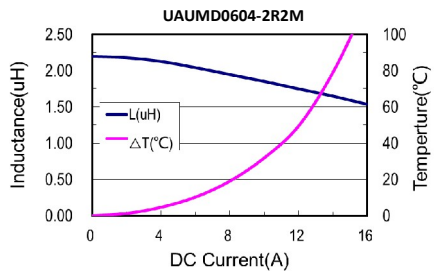
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

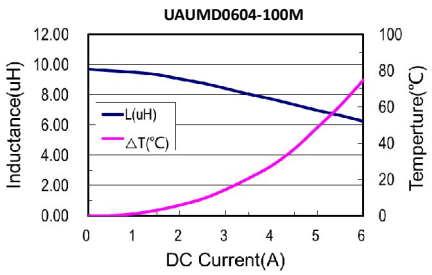
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

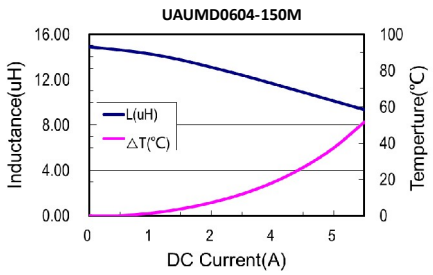
Note 4: Operating Temperature range includes self-temperature rise

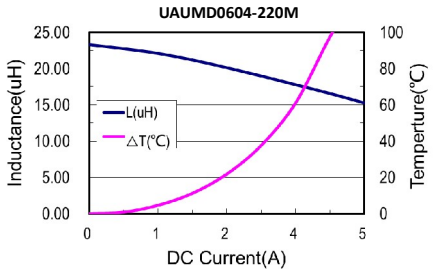
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

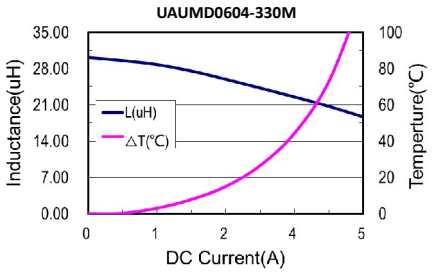
Typical Performance curves:











● UAUMD0804 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UAUMD0804-R33M	0.33	1.10	1.40	49.0	42.0	36.0	30.0	3.2
UAUMD0804-R47M	0.47	1.94	2.40	40.0	35.0	26.0	23.0	3.2
UAUMD0804-1R0M	1.0	4.82	6.0	21.0	18.0	18.0	16.0	3.2
UAUMD0804-1R5M	1.5	6.27	8.0	17.0	15.0	17.0	15.0	3.2
UAUMD0804-2R2M	2.2	8.05	10.0	15.0	13.0	14.0	12.0	3.2
UAUMD0804-3R3M	3.3	11.5	15.0	14.5	12.5	12.5	11.0	3.2
UAUMD0804-4R7M	4.7	25.7	31.0	13.0	11.0	9.0	8.0	3.2
UAUMD0804-100M	10.0	43.4	51.8	7.0	6.0	5.4	5.0	3.2
UAUMD0804-220M	22.0	71.6	94.2	6.0	5.0	4.5	4.0	3.2
UAUMD0804-330M	33.0	121.6	159.0	4.8	4.0	3.5	3.1	3.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

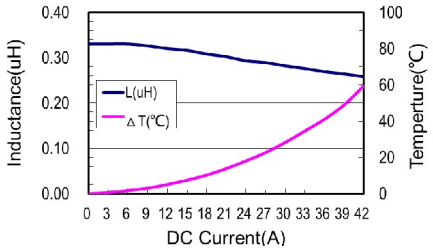
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:

UAUMD0804-R33M



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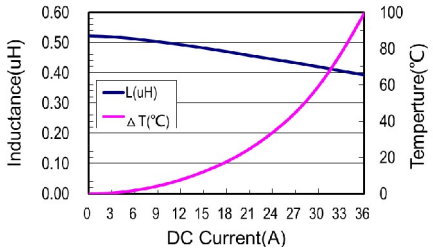
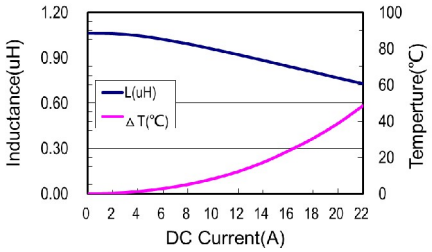
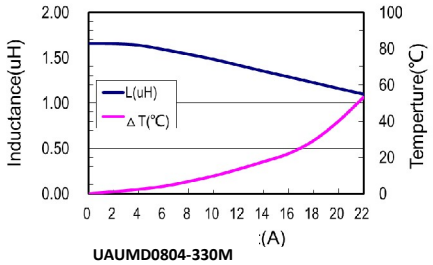


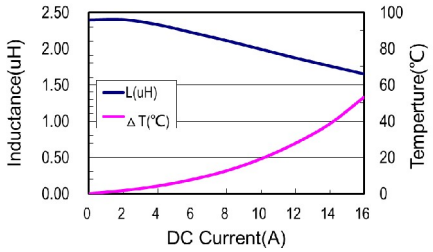
UAUMD0804-1R0M



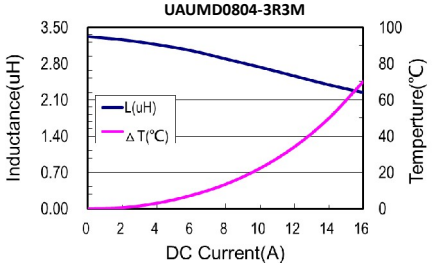
UAUMD0804-1R5M



UAUMD0804-2R2M

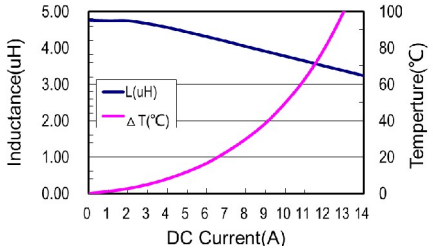


UAUMD0804-3R3M

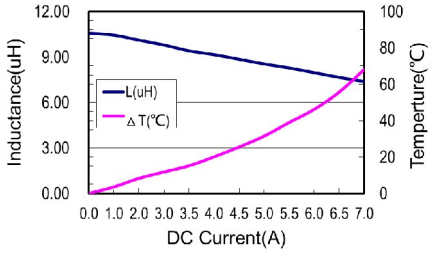


UAUMD0804-330M

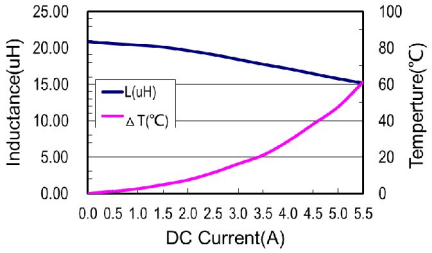
UAUMD0804-4R7M



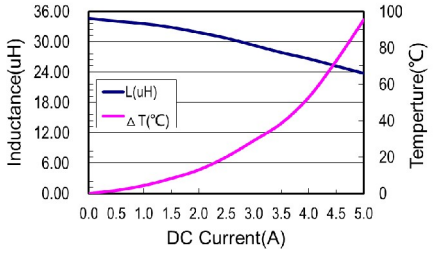
UAUMD0804-100M



UAUMD0804-220M



UAUMD0804-330M



● UAUMD0854 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A)	Isat (A)	Irms (A)	Irms (A)	E mm
		Typical	Maximum	Typ	Max	Typ	Max	±0.5
UAUMD0854-100M	10.0	33.64	40.0	9.0	8.0	7.0	6.0	3.2
UAUMD0854-220M	22.0	62.0	72.0	7.5	6.5	4.8	4.2	3.2
UAUMD0805-470M-3.5A	47.0	128.1	150.0	3.8	3.2	3.7	3.3	3.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

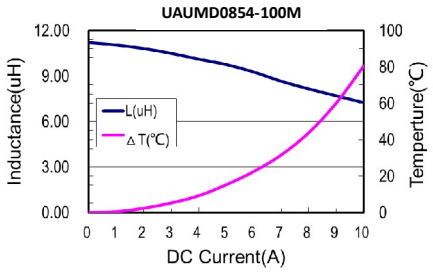
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

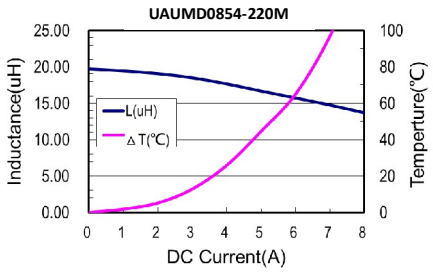
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

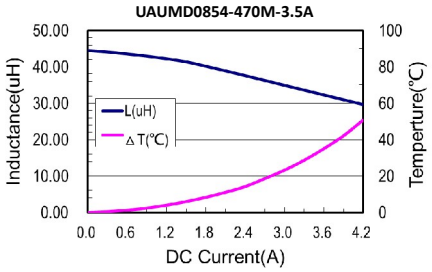
Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:







● UAUMD1004 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UAUMD1004-R47M	0.47	1.24	1.5	45.0	38.0	30.0	25.0	3.0
UAUMD1004-1R0M	1.0	2.93	3.5	34.0	29.0	23.0	18.0	3.0
UAUMD1004-2R2M	2.2	7.47	9.0	25.0	22.0	16.0	12.0	3.0
UAUMD1004-3R3M	3.3	10.3	11.8	18.0	22.0	14.0	11.5	3.0
UAUMD1004-4R7M	4.7	13.5	16.2	16.0	14.0	13.0	9.5	3.0
UAUMD1004-100M	10.0	30.5	36.5	9.0	8.0	7.5	5.5	3.0
UAUMD1004-150M	15.0	39.5	48.0	8.0	6.5	6.0	4.6	3.0
UAUMD1004-220M	22.0	63.5	68.0	6.4	5.0	4.5	4.0	3.0
UAUMD1004-330M	33.0	91.0	102.0	5.0	4.2	4.3	3.5	3.0
UAUMD1004-470M	47.0	139.7	150.0	3.6	3.2	3.3	3.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

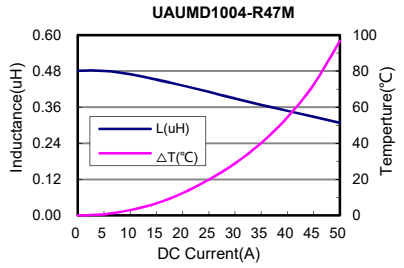
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

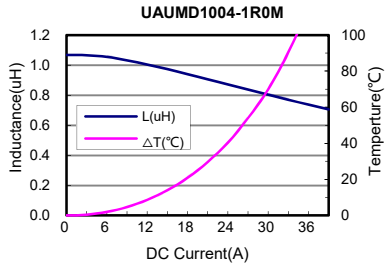
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

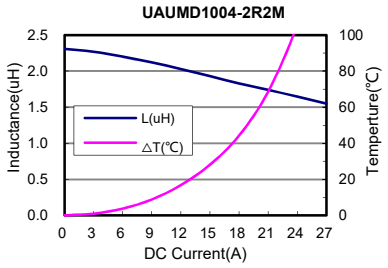
Note 4: Operating Temperature range includes self-temperature rise

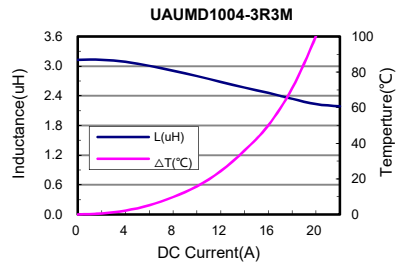
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

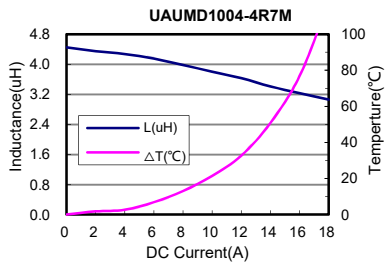
Typical Performance curves:

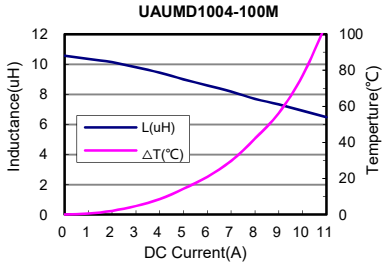


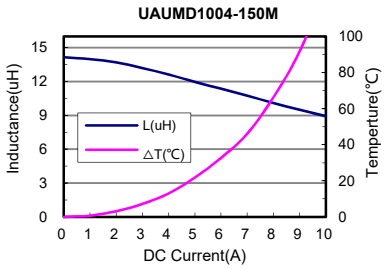


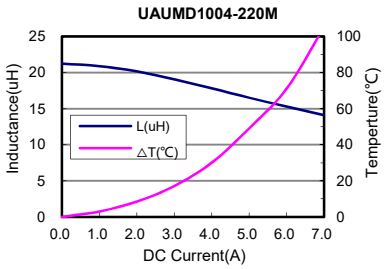


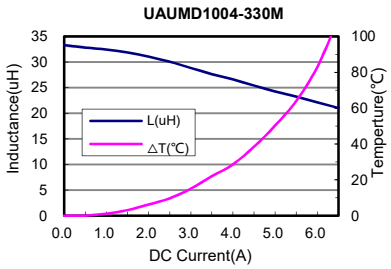


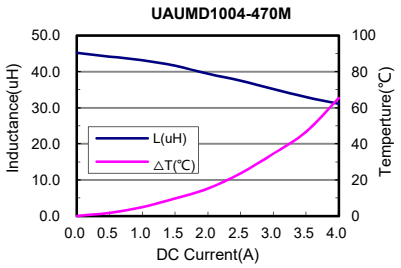












● UAUMD1005 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UAUMD1005-1R0M	1.0	2.50	3.3	36.0	33.0	27.0	24.0	3.0
UAUMD1005-3R3M	3.3	8.46	10.2	20.0	18.0	15.0	13.0	3.0
UAUMD1005-100M	10.0	24.1	28.0	14.0	12.7	8.5	7.8	3.0
UAUMD1005-220M	22.0	47.5	53.0	6.5	5.0	6.0	5.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

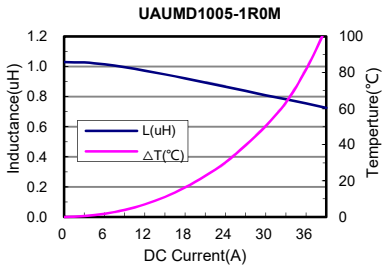
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

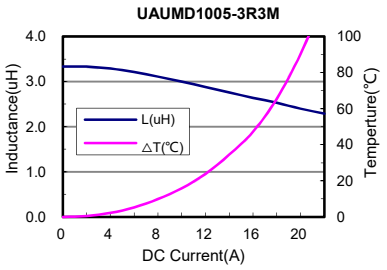
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

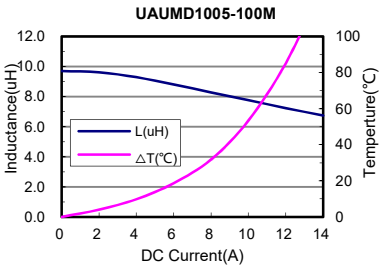
Note 4: Operating Temperature range includes self-temperature rise

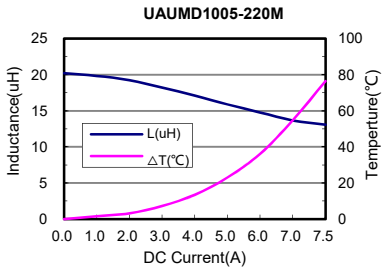
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:









● UAUMD1054 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A)	Isat (A)	Irms (A)	Irms (A)	E mm
		Typical	Maximum	Typ	Max	Typ	Max	±0.5
UAUMD1054-4R7M	4.7	9.4	10.5	18.0	15.7	14.0	13.0	3.0
UAUMD1054-100M	10.0	20.7	24.2	14.5	12.7	9.5	7.8	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

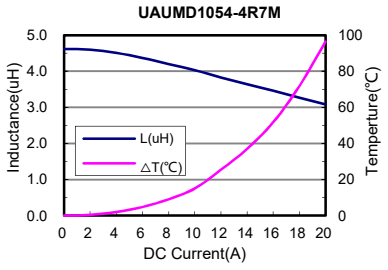
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

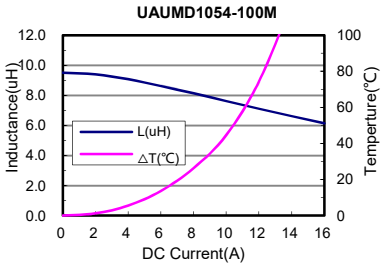
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:





● UAUMD1205 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UAUMD1205-R47M	0.47	0.87	1.1	62.0	54.0	41.0	36.0	3.0
UAUMD1205-R68M	0.68	1.32	1.7	48.5	42.5	34.0	30.0	3.0
UAUMD1205-1R0M	1.0	1.86	2.3	44.0	37.0	25.0	22.0	3.0
UAUMD1205-2R2M	2.2	4.24	5.2	33.0	28.0	20.0	18.0	3.0
UAUMD1205-3R3M	3.3	8.0	9.6	28.0	25.0	15.0	13.0	3.0
UAUMD1205-4R7M	4.7	10.9	13.0	22.0	18.5	13.0	11.0	3.0
UAUMD1205-100M	10.0	23.3	28.0	13.5	12.0	9.0	8.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

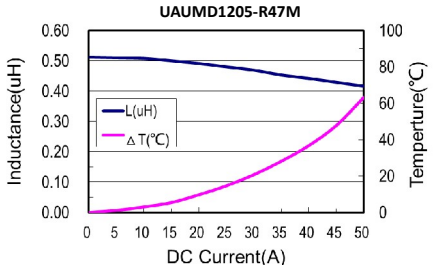
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

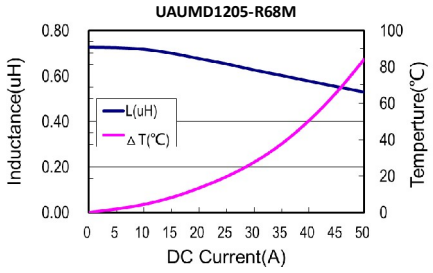
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

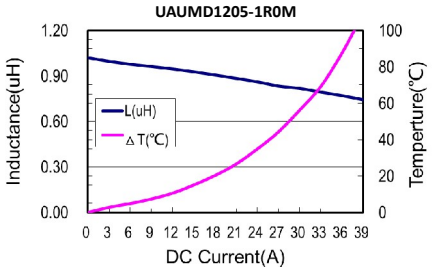
Note 4: Operating Temperature range includes self-temperature rise

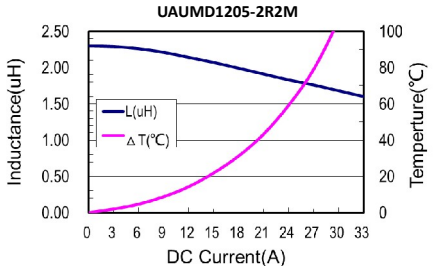
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

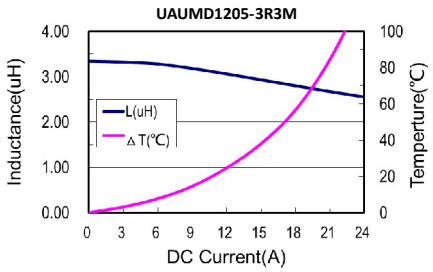
Typical Performance curves:

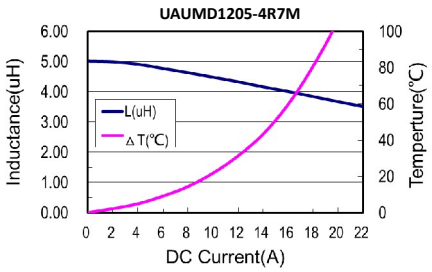


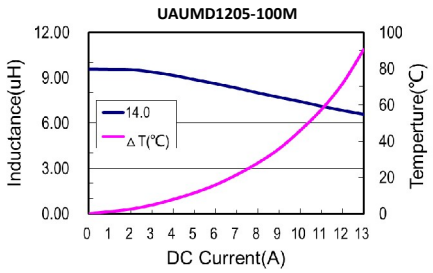












● UAUMD1265 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UAUMD1265-1R5M	1.5	2.58	3.0	48.0	40.0	29.0	27.0	3.0
UAUMD1265-3R3M	3.3	4.80	5.7	25.0	22.0	20.0	18.0	3.0
UAUMD1265-8R2M	8.2	14.5	15.5	19.0	16.0	12.0	10.5	3.0
UAUMD1265-100M	10.0	15.6	18.7	17.0	15.0	11.0	9.0	3.0
UAUMD1265-330M	33.0	58.8	70.0	8.5	7.0	6.0	5.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100kHz ,0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

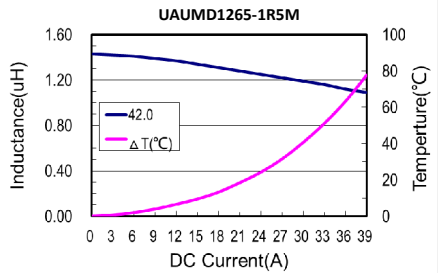
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

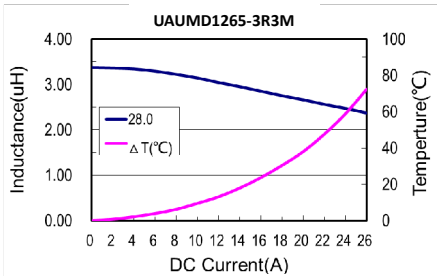
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

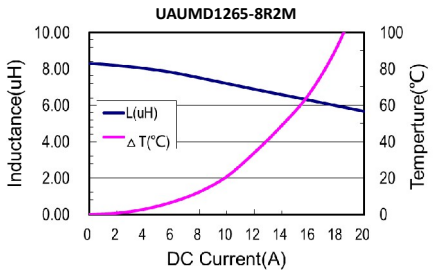
Note 4: Operating Temperature range includes self-temperature rise

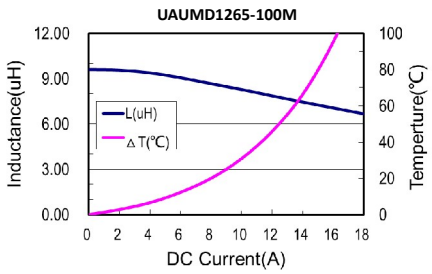
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

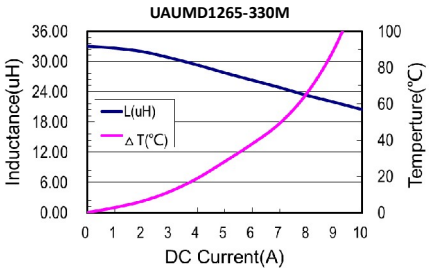
Typical Performance curves:











● UAUMD1707 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.3
		Typical	Maximum					
UAUMD1707-1R0M	1.0	1.4	1.7	68.0	60.0	55.0	48.0	12.0
UAUMD1707-3R3M	3.3	2.6	3.1	40.0	35.0	37.0	32.0	12.0
UAUMD1707-4R7M	4.7	4.5	5.4	35.0	30.0	30.0	27.0	12.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

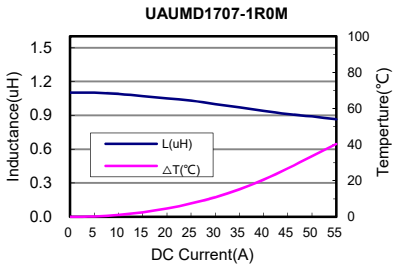
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

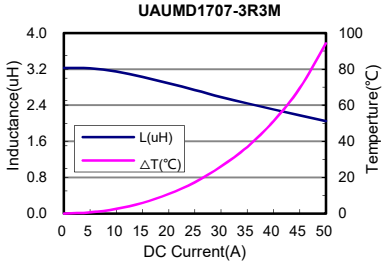
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

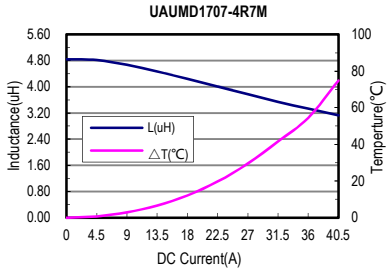
Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:

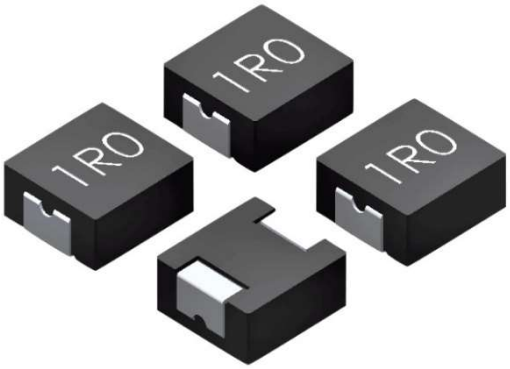






UMMD03&04 SERIES

HIGH POWER INDUCTOR

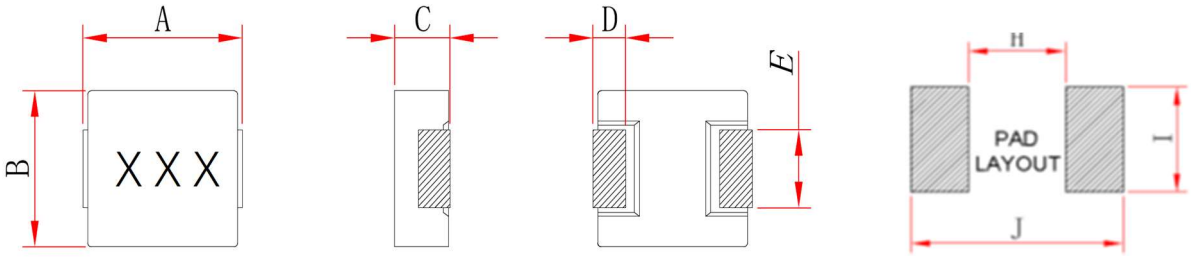


Applications:

- Automotive reliability comply with **AEC-Q200** grade 1
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors

  Windshield wipers, Power seats, Power mirrors, Heating and ventilation blowers, HID lighting
- LED drivers

Shape and Dimensions (Dimensions are in mm)



Item	A	B	C	D	E	H	I	J
UMMD0302	3.4±0.2	3.0±0.2	1.8±0.2	0.70±0.3	1.3±0.2	1.20	2.00	4.20
UMMD0402	4.4±0.2	4.0±0.2	1.8±0.2	0.76±0.3	2.0±0.3	2.16	2.30	4.95

Features :

. High performance (I sat) realized by metal dust core.

. Low profile:2.0mm

. Low loss realized with low DCR

. Compliance with RoHS and Halogen Free

Product Identification:

HPI M 0310 – 1R0 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for 1.0uH

(4) Tolerance: **M** : ± 20%.

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃.

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

UMMD03 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMMD0302-R47M	0.47	20	15.0	18.0	8.0	7.0	7.0	6.0
UMMD0302-R68M	0.68	20	22.0	26.0	6.0	5.5	6.0	5.2
UMMD0302-1R0M	1.0	20	32.0	36.0	5.5	5.0	5.0	4.0
UMMD0302-1R5M	1.5	20	34.0	39.0	4.5	4.0	4.2	3.2
UMMD0302-2R2M	2.2	20	59.0	69.0	4.0	3.0	2.9	2.5
UMMD0302-4R7M	4.7	20	125.0	144.0	3.0	2.5	2.3	2.1
UMMD0302-100M	10	20	250.0	260.0	1.4	1.2	1.2	1.0

UMMD04 series

Part No.	Inductance L(uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMMD0402-R47M	0.47	20	9.2	11.0	9.5	8.0	10.0	8.0
UMMD0402-R68M	0.68	20	11.2	13.5	8.5	7.5	9.0	7.0
UMMD0402-1R0M	1.0	20	17.0	21.0	8.5	7.0	6.5	5.5
UMMD0402-1R5M	1.5	20	22.0	26.0	6.2	5.4	4.8	4.0
UMMD0402-2R2M	2.2	20	32.0	38.0	5.5	4.2	4.6	4.2
UMMD0402-3R3M	3.3	20	44.0	55.0	4.2	3.8	3.5	3.0
UMMD0402-4R7M	4.7	20	57.0	70.0	3.8	3.2	3.0	2.2
UMMD0402-6R8M	6.8	20	114.0	138.0	3.2	2.6	2.7	2.4
UMMD0402-100M	10.0	20	170.0	190.0	2.6	2.1	2.0	1.8
UMMD0402-150M	15.0	20	220.0	275.0	2.0	1.5	1.6	1.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :1MHz ,1.0 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

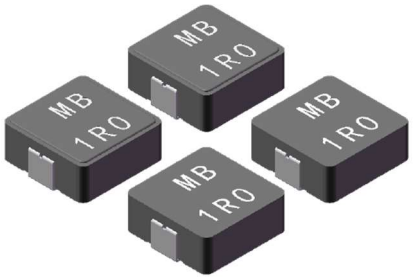
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

UMUMDB SERIES

HIGH POWER INDUCTOR



Applications:

- Automotive reliability comply with **AEC-Q200** grade 1
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors
- LED drivers

Shape and Dimensions (Dimensions are in mm)

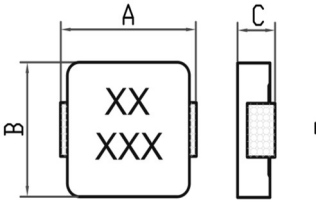


Figure 1

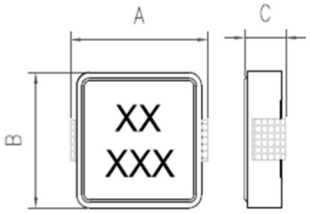
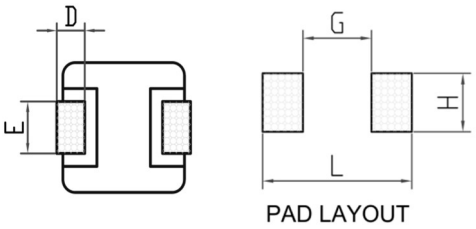


Figure 2



PAD LAYOUT

Item	A Max	B Max	C Max	D	E	G	H	L	Figure
UMUMDBS0603	7.10±0.2	6.60±0.2	2.80±0.2	1.60±0.3	3.00±0.5	3.70	3.50	8.00	1
UMUMDB0804	8.60±0.3	8.10±0.25	3.80±0.2	1.80±0.3	3.20±0.5	4.60	3.80	10.6	1
UMUMDB1004	11.0±0.5	10.0±0.3	3.80±0.2	2.30±0.3	3.00±0.5	5.40	4.50	12.4	2
UMUMDB1205	13.4±0.5	12.6±0.3	4.80±0.2	2.30±0.3	3.00±0.5	8.00	5.00	14.5	1
UMUMDB1265	13.4±0.5	12.6±0.3	6.30±0.2	2.30±0.3	3.00±0.5	8.00	5.00	14.5	1
UMUMDB1707	17.3±0.5	17.0±0.3	6.70±0.3	2.10±0.3	12.0±0.3	11.7	12.2	18.0	1

Features :

. High performance (I sat) realized by metal dust core.

. Low loss realized with low DCR.

. Compliance with ROHS and Halogen Free

Product Identification:

UMUMDB S0603 – 1R0 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for **1.0** uH.

(4) Inductance tolerance: **M**: ± 20%

Characteristics:

. Saturation Current (I sat): The current will cause L0 to drop approximately 30% typical

. Temperature Rise(Irms): The current will cause the coil temperature rise approximately △T=40℃.

. Operating Temperature: -55 ℃ to 125 ℃

Test equipments:

. L : Wayne kerr 3260B LCR meter
Wayne kerr 3265B bias current source.

. DCR:Chroma16502 Milliohm Meter

. IWT test: CHROMA 19301(A).(Impulse winding test)

● UMUMDBS 0603 Serie

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UMUMDBS0603-1R0M	1.0	9.3	10.0	25.0	22.0	14.0	11.0	3.0
UMUMDBS0603-1R5M	1.5	13.5	15.0	22.0	18.0	11.0	9.0	3.0
UMUMDBS0603-2R2M	2.2	18.3	20.0	15.0	14.0	10.0	8.0	3.0
UMUMDBS0603-4R7M	4.7	38.0	40.0	11.0	10.0	6.5	5.5	3.0
UMUMDBS0603-6R8M	6.8	54.8	60.0	9.0	8.0	5.0	4.5	3.0
UMUMDBS0603-8R2M	8.2	61.5	68.0	8.5	7.5	4.5	4.0	3.0
UMUMDBS0603-100M	10.0	102.5	105.0	7.5	7.0	4.0	3.0	3.0
UMUMDBS0603-220M	22.0	132.0	155.0	5.0	3.5	3.3	2.5	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

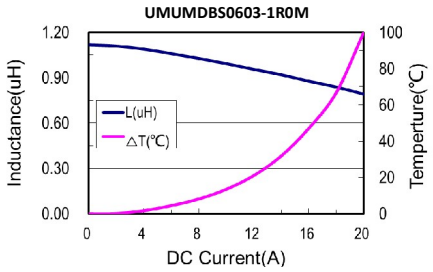
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

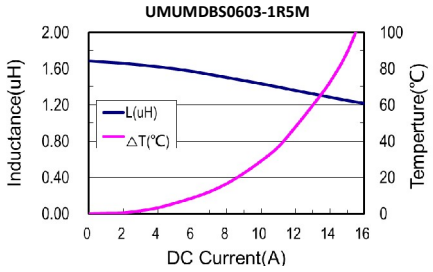
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

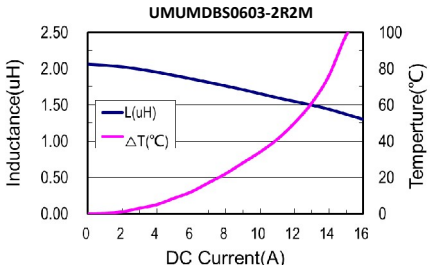
Note 4: Operating Temperature range includes self-temperature rise

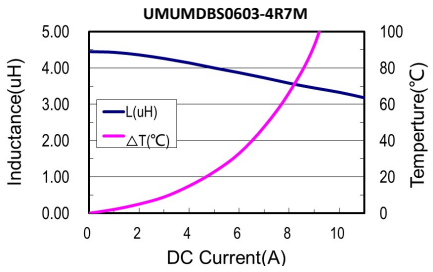
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

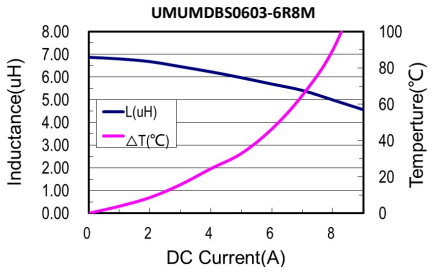
Typical Performance curves：

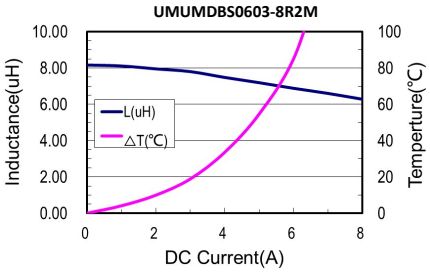


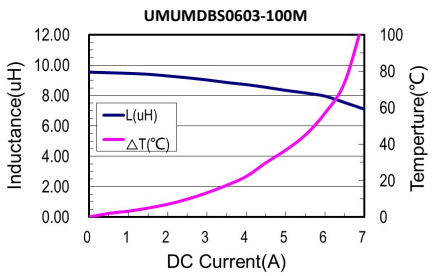


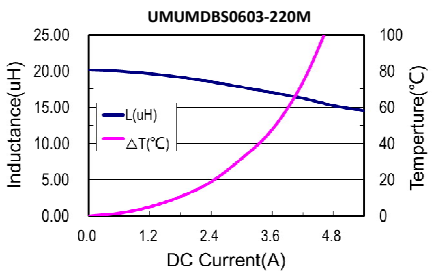












● UMUMDB0804 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UMUMDB0804-R33M	0.33	1.23	1.50	52.0	44.0	29.0	25.0	3.2
UMUMDB0804-R47M	0.47	1.77	2.20	45.0	39.0	27.0	24.0	3.2
UMUMDB0804-1R5M	1.5	7.60	9.50	27.0	23.5	14.0	12.0	3.2
UMUMDB0804-4R7M	4.7	17.0	22.6	18.0	15.5	9.0	8.0	3.2
UMUMDB0804-100M	10.0	48.2	59.9	11.0	9.5	5.5	4.5	3.2
UMUMDB0804-220M	22.0	72.9	94.2	7.2	6.3	4.5	4.0	3.2
UMUMDB0804-330M	33.0	119.8	144.0	6.3	5.4	3.5	3.0	3.2

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

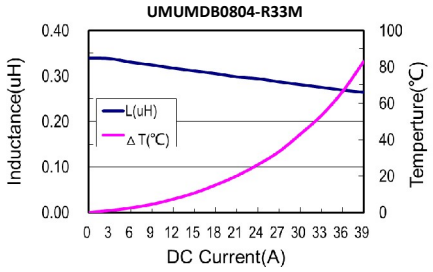
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

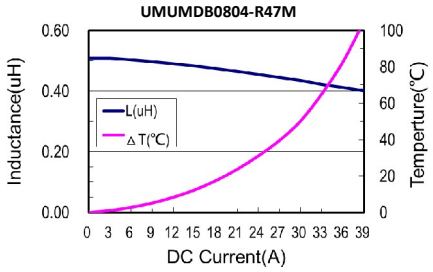
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

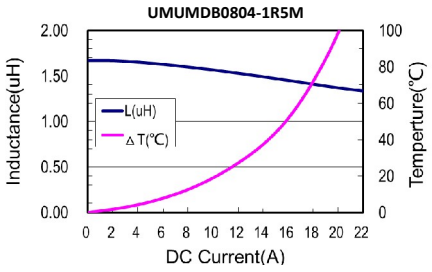
Note 4: Operating Temperature range includes self-temperature rise

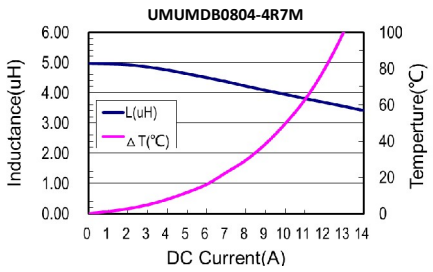
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

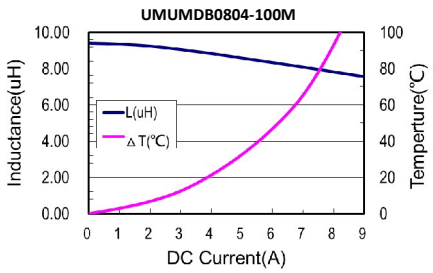
Typical Performance curves：

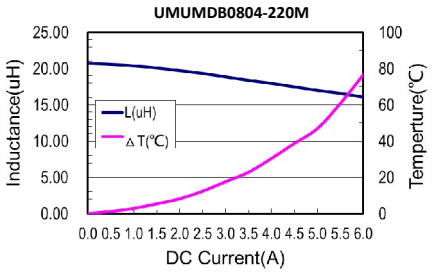


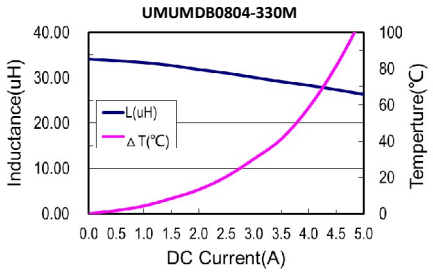












● UMUMDB1004 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UMUMDB1004-R56M	0.56	1.51	1.8	65.0	55.0	30.0	25.0	3.0
UMUMDB1004-1R0M	1.0	2.75	3.5	48.0	40.0	24.0	20.0	3.0
UMUMDB1004-1R5M	1.5	3.85	4.2	40.0	33.0	21.0	16.0	3.0
UMUMDB1004-2R2M	2.2	7.09	9.0	35.0	26.0	16.0	12.0	3.0
UMUMDB1004-3R3M	3.3	10.9	12.0	28.0	23.0	12.0	10.0	3.0
UMUMDB1004-4R7M	4.7	15.5	16.5	22.0	17.0	11.0	9.5	3.0
UMUMDB1004-6R8M	6.8	20.5	23.3	18.0	15.0	9.5	8.0	3.0
UMUMDB1004-100M	10.0	28.4	36.5	16.0	14.0	8.0	6.8	3.0
UMUMDB1004-220M	22.0	60.6	66.0	9.0	7.0	5.8	5.0	3.0
UMUMDB1004-330M	33.0	93.2	98.0	8.5	6.5	4.5	4.1	3.0
UMUMDB1004-470M	47.0	145.0	167.0	5.0	4.5	3.5	3.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

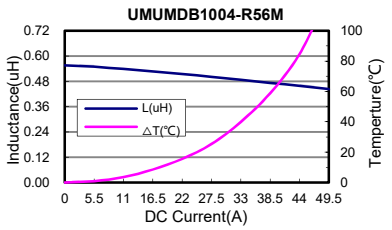
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

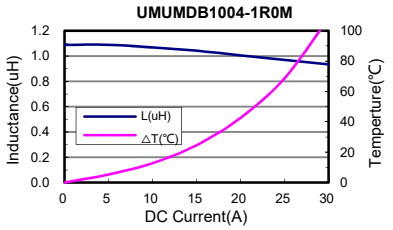
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

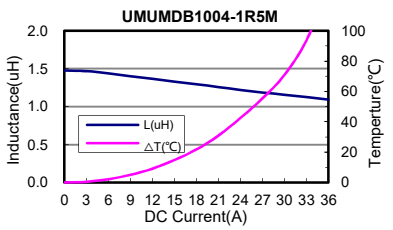
Note 4: Operating Temperature range includes self-temperature rise

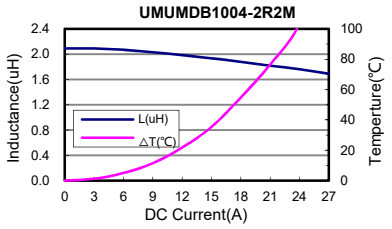
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

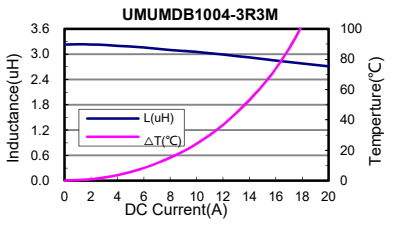
Typical Performance curves：

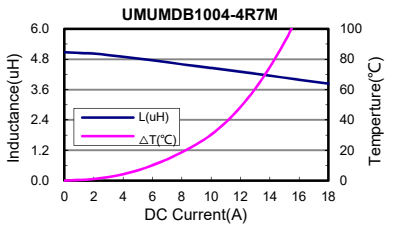


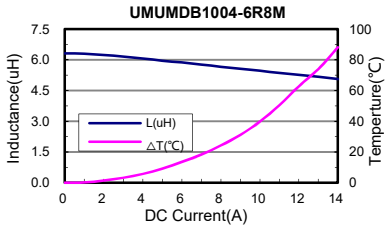


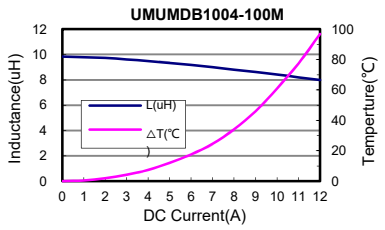


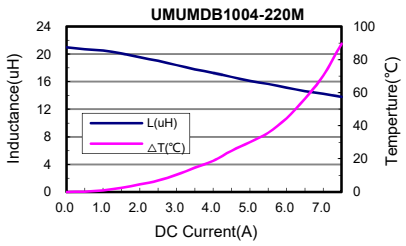


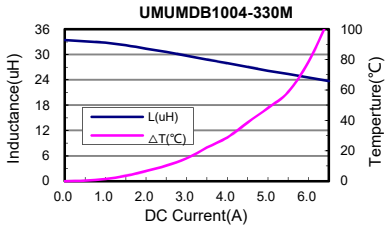


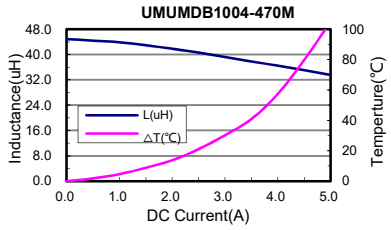












● UMUMDB1205 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UMUMDB1205-R22M	0.22	0.62	0.8	95.0	85.0	48.0	42.0	3.0
UMUMDB1205-R47M	0.47	1.14	1.5	84.0	75.0	38.0	35.0	3.0
UMUMDB1205-R68M	0.68	1.33	1.70	70.0	60.0	36.0	33.0	3.0
UMUMDB1205-1R0M	1.0	1.84	2.20	65.0	56.0	30.0	27.0	3.0
UMUMDB1205-2R2M	2.2	4.4	5.5	37.0	30.0	21.0	19.0	3.0
UMUMDB1205-4R7M	4.7	9.72	12.0	29.0	25.0	15.0	13.0	3.0
UMUMDB1205-5R6M	5.6	13.6	16.5	31.0	26.0	12.0	10.5	3.0
UMUMDB1205-100M	10.0	27.2	34.0	20.5	17.5	9.0	8.0	3.0
UMUMDB1205-330M	33.0	73.9	78.0	11.5	10.0	5.0	4.0	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

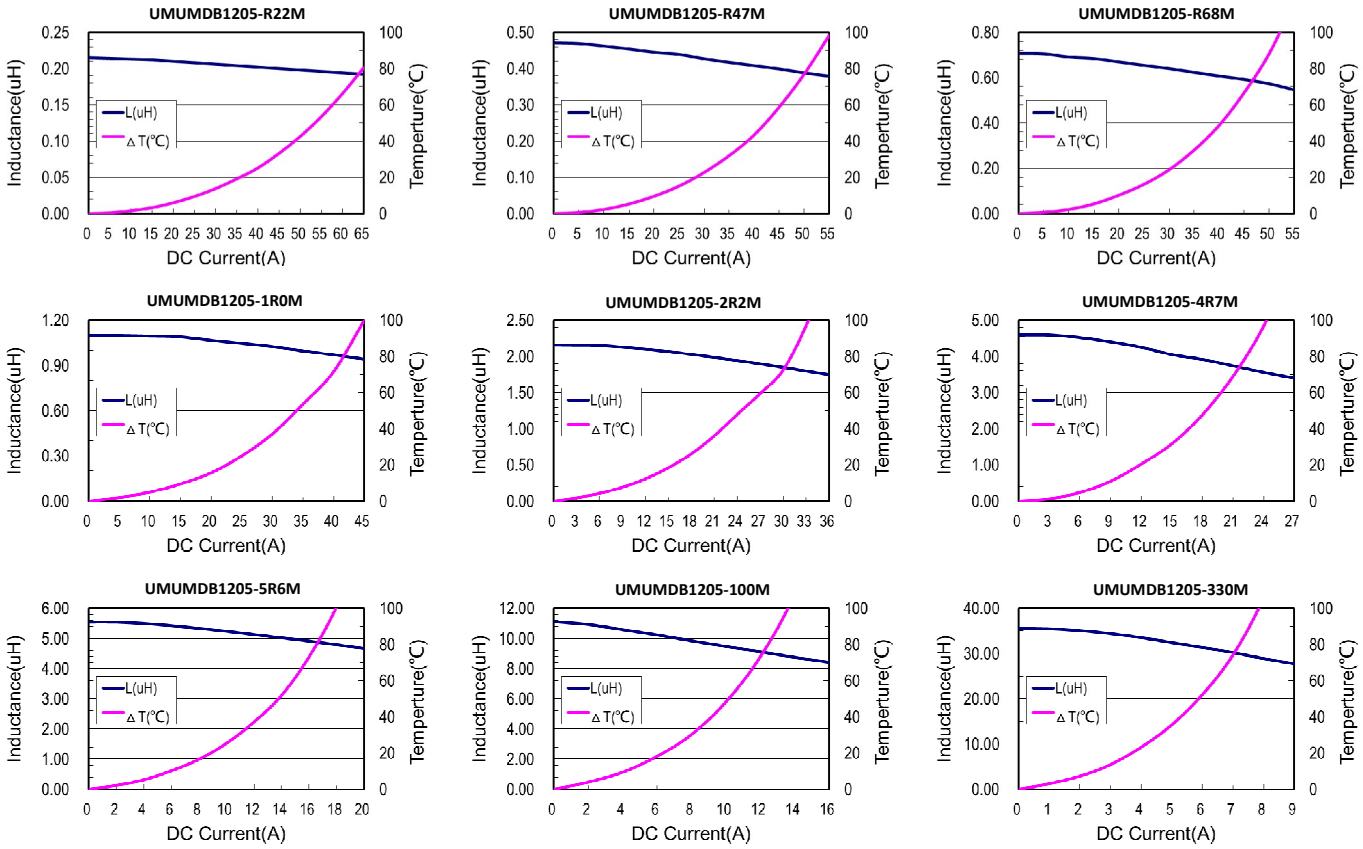
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves：



● UMUMDB1265 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.5
		Typical	Maximum					
UMUMDB1265-R33M	0.33	0.65	0.8	95.0	85.0	48.0	45.0	3.0
UMUMDB1265-3R3M	3.3	4.3	5.2	44.0	38.0	20.0	17.0	3.0
UMUMDB1265-4R7M	4.7	6.4	8.0	40.0	35.0	18.0	15.0	3.0
UMUMDB1265-470M	47.0	73.0	90.0	9.0	8.0	5.5	4.5	3.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

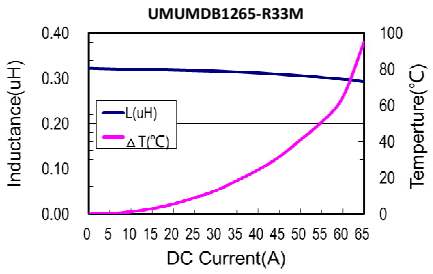
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

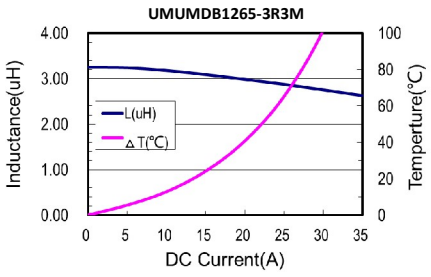
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

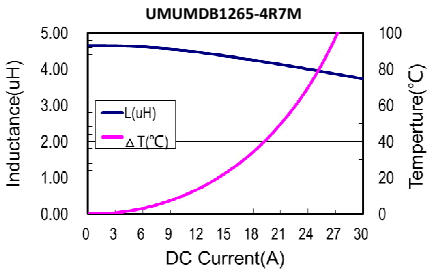
Note 4: Operating Temperature range includes self-temperature rise

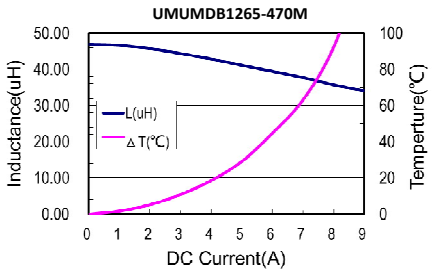
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves：









● UMUMDB1707 Series

Part No.	Inductance Lo (uH)	DCR（mΩ）		Isat (A) Typ	Isat (A) Max	Irms (A) Typ	Irms (A) Max	E mm ±0.3
		Typical	Maximum					
UMUMDB1707-1R5M	1.5	1.77	1.96	68.0	60.0	48.0	40.0	12.0
UMUMDB1707-3R3M	3.3	3.0	3.88	60.0	54.0	36.0	23.5	12.0
UMUMDB1707-4R7M	4.7	4.2	5.11	50.0	41.0	33.0	20.0	12.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition: 100kHz, 0.25 Vrms.

Note 3: I sat (Typ):DC current（A）that will cause L0 to drop approximately 30%

I sat (Max):DC current（A）that will cause L0 to drop 30% Max

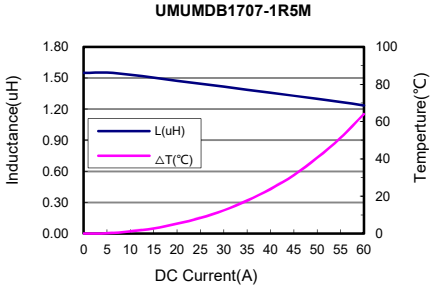
I rms (Typ): DC current（A）that will cause an approximate ΔT of 40℃

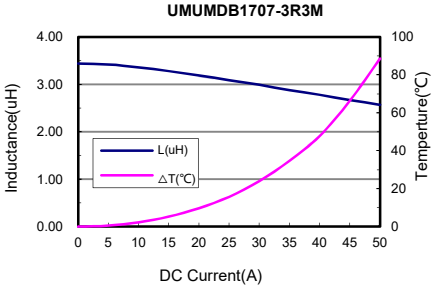
I rms (Max): DC current（A）that will cause an ΔT of 40℃ Max

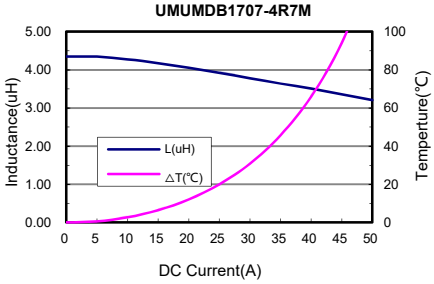
Note 4: Operating Temperature range includes self-temperature rise

Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves：

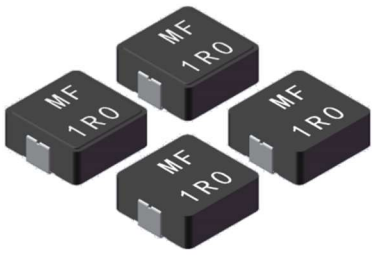






UMUMDF SERIES

HIGH POWER INDUCTOR



Applications:

. Automotive reliability comply with **AEC-Q200** grade 1

- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors
- LED drivers

Shape and Dimensions (Dimensions are in mm) :

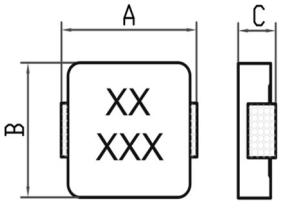


Figure 1

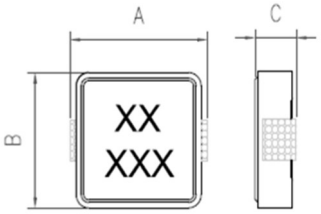
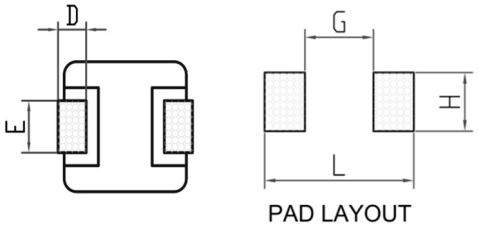


Figure 2



Item	A	B	C	D	E	G	H	L	**Figure**
UMUMDFS0603	7.1±0.2	6.6±0.2	2.8±0.2	1.60±0.3	3.0±0.5	3.7	3.5	8.0	1
UMUMDF0804	8.6±0.3	8.1±0.25	3.8±0.2	1.08±0.3	3.2±0.5	4.6	3.8	10.6	1
UMUMDF1004	11.0±0.5	10±0.3	3.8±0.2	2.3±0.3	3.0±0.5	5.4	4.5	12.4	2
UMUMDF1205	13.4±0.5	12.6±0.3	4.8±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5	1
UMUMDF1265	13.4±0.5	12.6±0.3	6.3±0.2	2.3±0.3	3.0±0.5	8.0	5.0	14.5	1

Features :

. High performance (I sat) realized by metal dust core.

. Low loss realized with low DCR

. Compliance with RoHS and Halogen Free

Product Identification:

UMUMDF S0603 – 1R0 M

(1) (2) (3) (4)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **1R0** for 1.0uH

(4) Tolerance: **M** : ± 20%.

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise Current (Irms) : The current will cause the coil temperature rise approximately △T=40℃.

. Operating Temperature : -55℃ to 125℃

Test equipments :

. L: Agilent E4980 Precision LCR Meter (Upgraded version of Agilent HP4284A) with HP42841A Current Source

. DCR: Milli-ohm meter

● UMUMDFS06 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMUMDFS0603-1R0M	1.0	20	7.0	8.0	20.0	18.0	15.0	12.5
UMUMDFS0603-1R5M	1.5	20	9.6	12.0	16.0	14.0	12.0	10.0
UMUMDFS0603-2R2M	2.2	20	14.0	17.0	13.0	11.0	9.0	8.0
UMUMDFS0603-4R7M	4.7	20	30.0	33.4	11.0	9.0	7.5	6.0
UMUMDFS0603-6R8M	6.8	20	41.0	46.8	8.0	7.0	5.5	5.0
UMUMDFS0603-8R2M	8.2	20	48.0	57.0	6.0	5.5	5.2	4.8
UMUMDFS0603-100M	10.0	20	62.5	71.2	4.8	3.5	4.5	4.0
UMUMDFS0603-150M	15.0	20	100.0	120.0	4.5	4.0	3.5	3.3
UMUMDFS0603-220M	22.0	20	127.0	135.0	4.0	2.7	3.2	2.8

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100kHz ,0.25 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

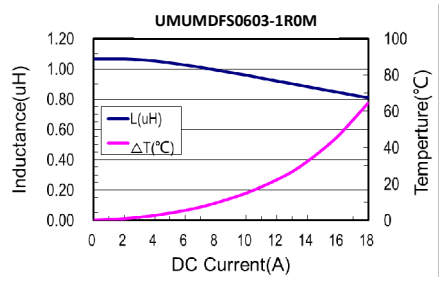
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

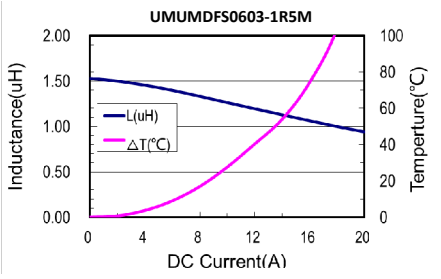
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

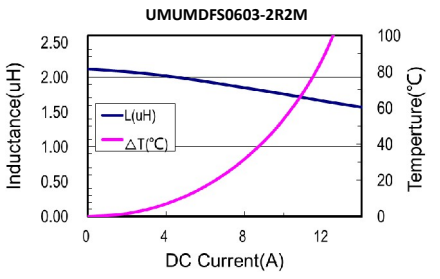
Note 4: Operating temperature range includes self-temperature rise.

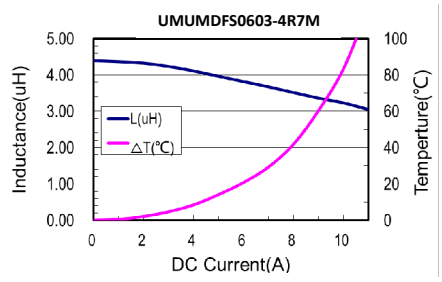
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

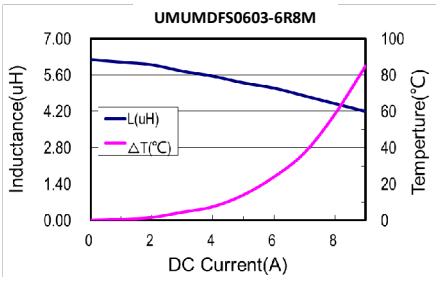
`Typical Performance curves:

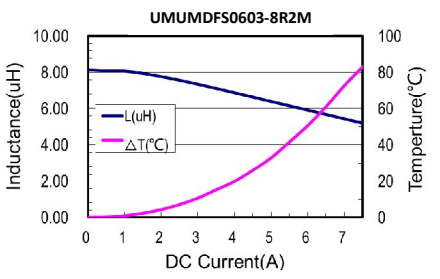


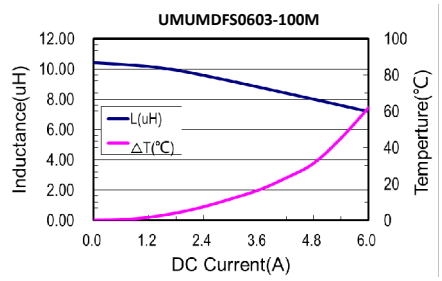


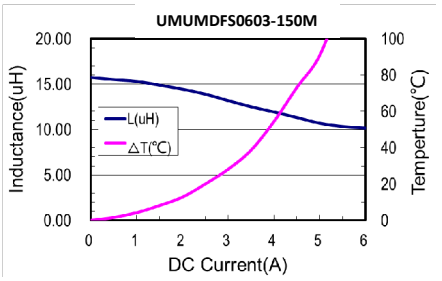


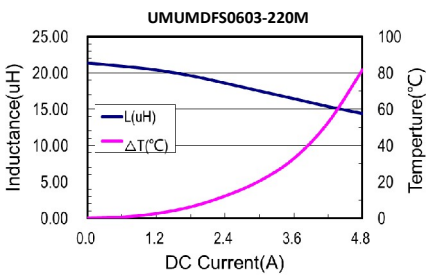












● UMUMDF0804 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMUMDF0804-R33M	0.33	20	1.55	2.0	42.0	38.0	29.0	25.0
UMUMDF0804-R47M	0.47	20	1.88	2.38	36.0	31.0	25.0	22.0
UMUMDF0804-2R2M	2.2	20	8.30	10.0	16.0	14.5	14.0	12.0
UMUMDF0804-4R7M	4.7	20	17.5	26.5	13.0	11.0	9.0	8.0
UMUMDF0804-8R2M	8.2	20	35.5	42.0	8.0	6.5	6.3	5.5
UMUMDF0804-100M	10.0	20	43.5	52.0	7.0	6.0	6.0	5.0
UMUMDF0804-150M	15.0	20	53.0	65.0	6.5	5.5	5.5	4.8
UMUMDF0804-220M	22.0	20	69.8	84.0	5.8	5.0	4.6	4.0
UMUMDF0804-330M	33.0	20	122.0	144.0	5.0	4.2	3.2	2.7
UMUMDF0804-470M	47.0	20	148.7	160.0	3.6	3.2	3.0	2.5

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100kHz ,0.25 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

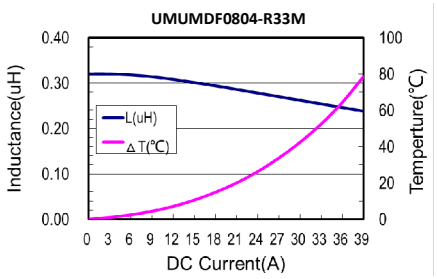
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

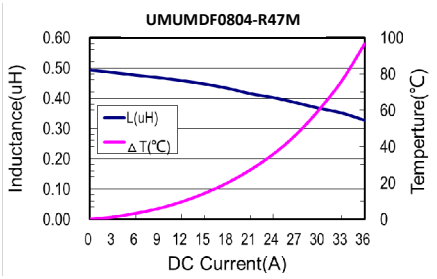
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

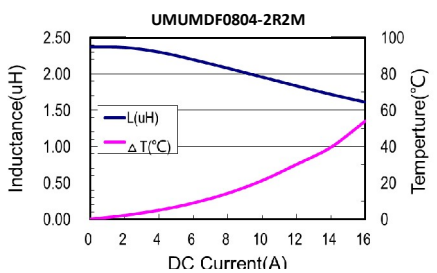
Note 4: Operating temperature range includes self-temperature rise.

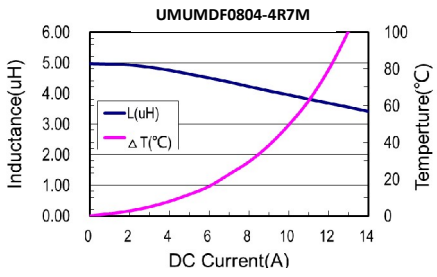
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

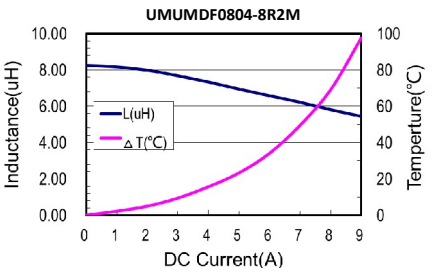
Typical Performance curves:

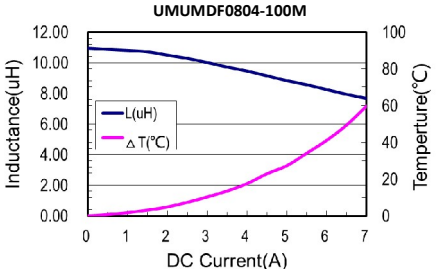


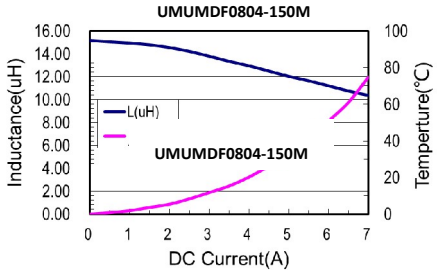


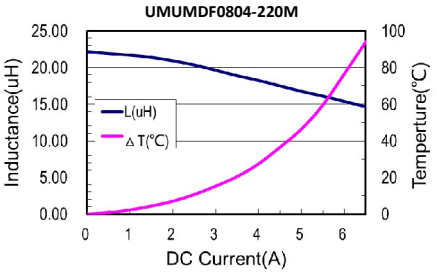


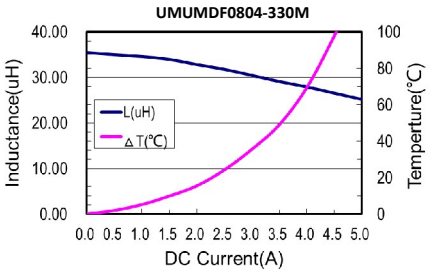


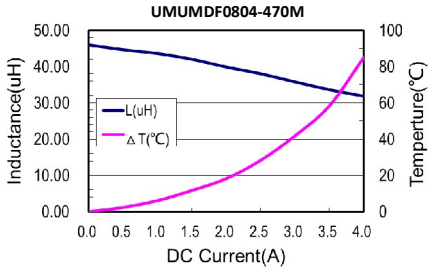












● UMUMDF1004 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMUMDF1004-1R0M	1.0	20	2.85	3.3	35.0	28.0	21.0	18.0
UMUMDF1004-2R2M	2.2	20	7.6	8.5	23.0	20.0	15.0	13.0
UMUMDF1004-3R3M	3.3	20	10.4	11.8	22.0	18.0	12.0	10.0
UMUMDF1004-4R7M	4.7	20	13.4	16.0	17.0	14.0	10.0	9.0
UMUMDF1004-100M	10.0	20	29.0	35.0	9.5	6.0	8.0	7.0
UMUMDF1004-150M	15.0	20	40.0	48.0	8.0	5.5	6.0	5.0
UMUMDF1004-220M	22.0	20	60.1	66.0	6.0	4.5	5.0	4.0
UMUMDF1004-330M	33.0	20	93.0	98.0	5.5	4.3	4.5	3.5
UMUMDF1004-470M	47.0	20	139.0	155.0	4.0	3.0	3.3	2.5

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz ,0.25 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

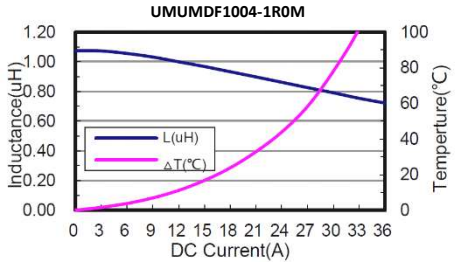
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

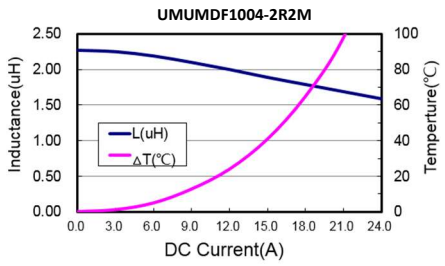
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

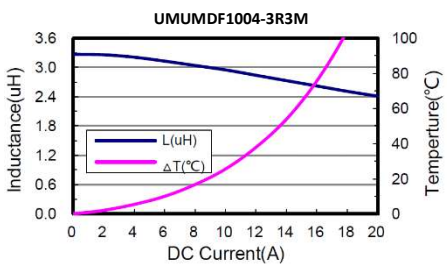
Note 4: Operating temperature range includes self-temperature rise.

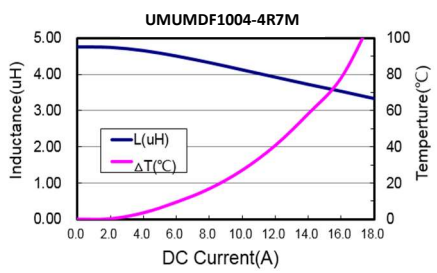
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

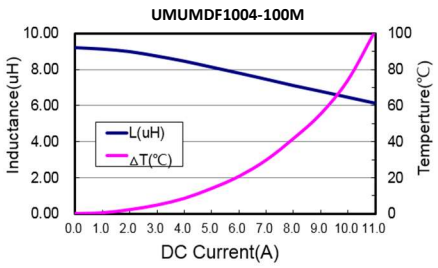
Typical Performance curves:

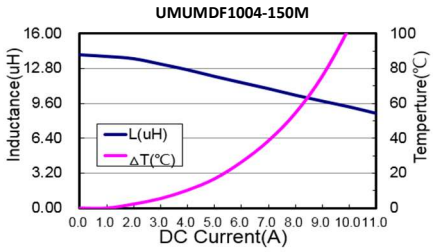


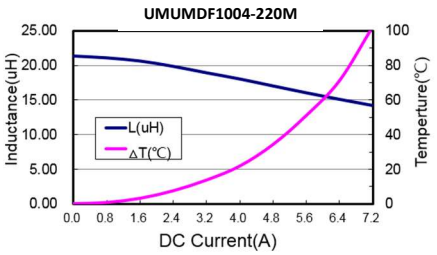


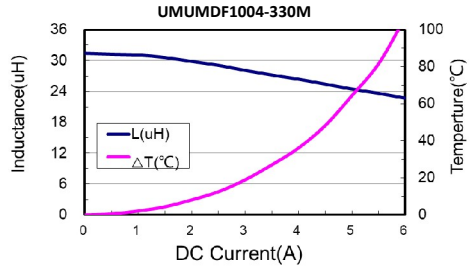


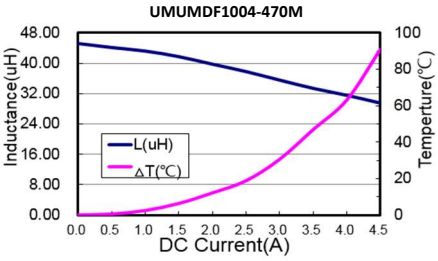












● UMUMDF12 series

Part No.	Inductance L (uH)	Tolerance (±%)	DCR(mΩ)		I sat(A)		I rms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMUMDF1205-R68M	0.68	20	1.5	1.8	52.0	45.0	34.0	30.0
UMUMDF1205-8R2M	8.2	20	17.8	22.5	18.0	15.0	12.0	10.0
UMUMDF1205-100M	10.0	20	21.1	25.0	14.0	12.5	9.5	8.0
UMUMDF1205-220M	22.0	20	41.5	45.0	10.5	9.0	6.5	5.5
UMUMDF1205-470M	47.0	20	82.7	96.0	7.0	6.0	4.5	4.0
UMUMDF1265-1R5M	1.5	20	2.6	3.0	45.0	39.0	30.0	27.0
UMUMDF1265-4R7M	4.7	20	6.0	7.7	28.0	24.0	20.0	17.0
UMUMDF1265-100M	10.0	20	15.8	18.0	19.0	16.0	11.0	9.5
UMUMDF1265-220M	22.0	20	23.2	29.0	14.0	11.5	10.0	9.0

If you require another part number please contact with us.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100kHz ,0.25 Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

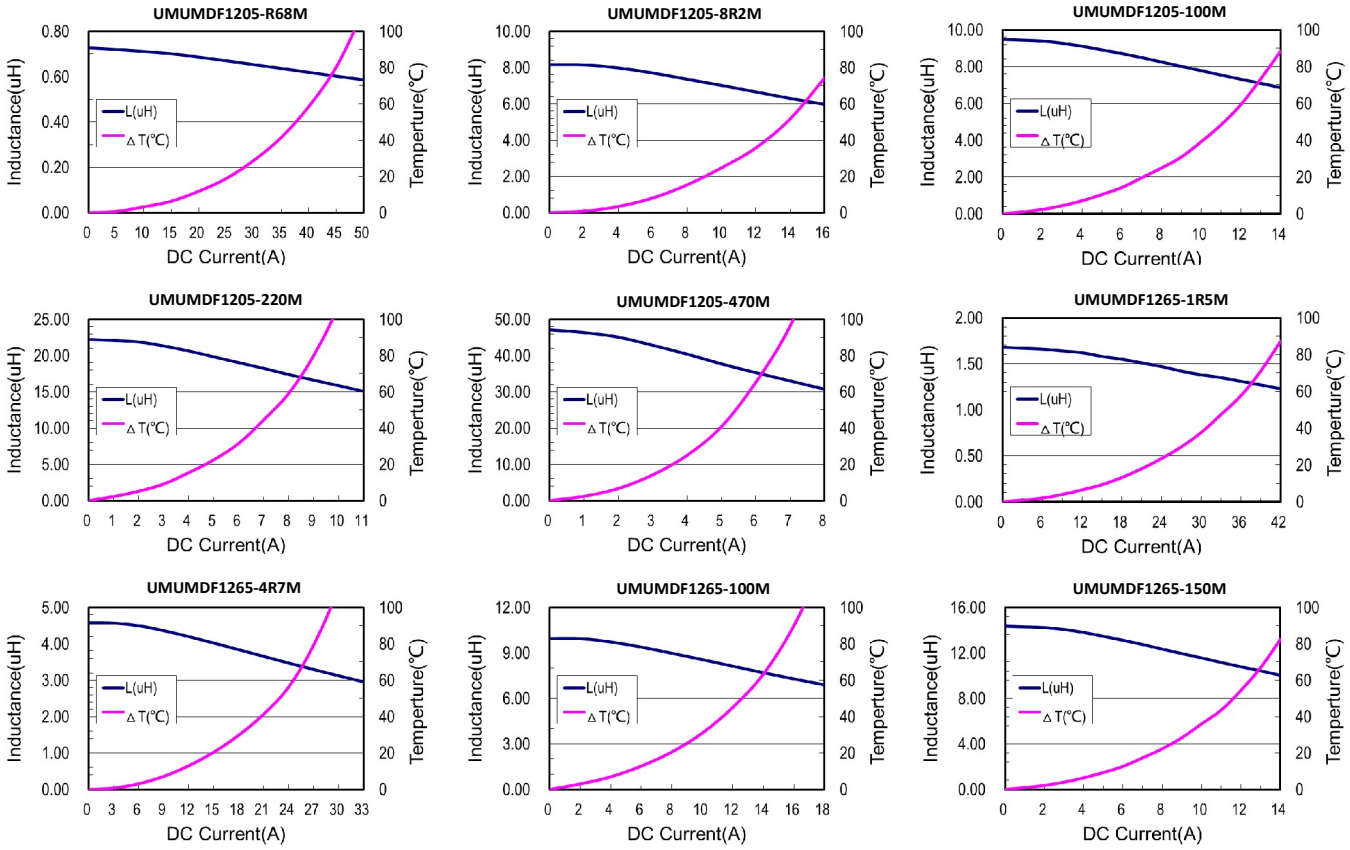
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

Note 4: Operating temperature range includes self-temperature rise.

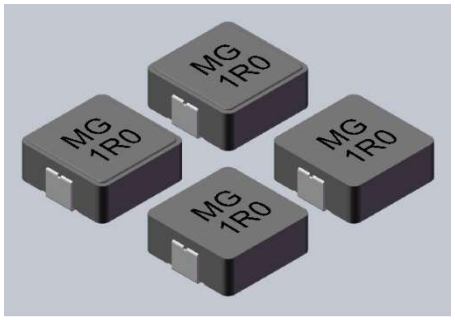
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Typical Performance curves:



UMUMDF1004-NC-G SERIES

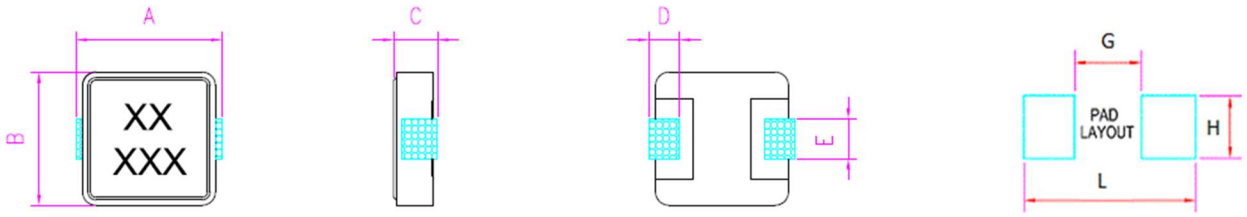
HIGH POWER INDUCTOR



Applications:

- Automotive reliability comply with AEC-Q200 grade 1
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors
- LED drivers

Shape and Dimensions



Item	A	B	C	D	E	G	H	L
UMUMDF1004-NC-G	11.0±0.5	10.0±0.3	3.80±0.2	2.3±0.3	3.00±0.5	5.4	4.5	12.4

Features :

. High performance(I sat)realized by metal dust core.

. Low loss realized with low DCR

. Compliance with RoHS and Halogen Free

Characteristics:

. Saturation Current (Isat) :
The current will cause L_0 to drop
approximately 30% typical

. Temperature Rise(Irms) : The current will cause the coil temperature rise approximately △T=40℃

. Operating Temperature : -55 ℃ to 125 ℃

Product Identification:

UMUMDF 1004 – 2R2 M – NC – G

(1) (2) (3) (4) (5)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%

(5) No Coating & Powder Type

Test equipments:

. L:Wayne Kerr 3260B Precision Magnetics Analyzer

. DCR:IOKI RM 3545 DC resistance meters

. IWT test:CHROMA 19301A(Impulse winding test)

● UMUMDF1004-NC-G Series

Part No.	Inductance Lo (uH)	Tolerance (±%)	DCR(mΩ)		Isat(A)		Irms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
UMUMDF1004-1R0M-NC-G	1.0	20	2.78	3.3	35	28	21	18
UMUMDF1004-2R2M-NC-G	2.2	20	7.6	8.5	23	18	15	13
UMUMDF1004-3R3M-NC-G	3.3	20	10.5	11.8	20	16	12	10
UMUMDF1004-4R7M-NC-G	4.7	20	13.5	16	16	14	10	9
UMUMDF1004-6R8M-NC-G	6.8	20	20.6	23	15	12	9.5	8
UMUMDF1004-100M-NC-G	10	20	29.5	32	8	6	7	6
UMUMDF1004-150M-NC-G	15	20	40	45	7.5	6.5	6	5
UMUMDF1004-220M-NC-G	22	20	63	66	5.5	4.5	5	4
UMUMDF1004-330M-NC-G	33	20	90.7	98	5	4.3	4.2	3.5
UMUMDF1004-470M-NC-G	47	20	137	155	3.5	3	3	2.5

Please contact us if you have any other requirement on product performance.

Note 1: Referenced ambient temperature 25℃.

Note 2: Test Condition :100KHz , 0.25Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

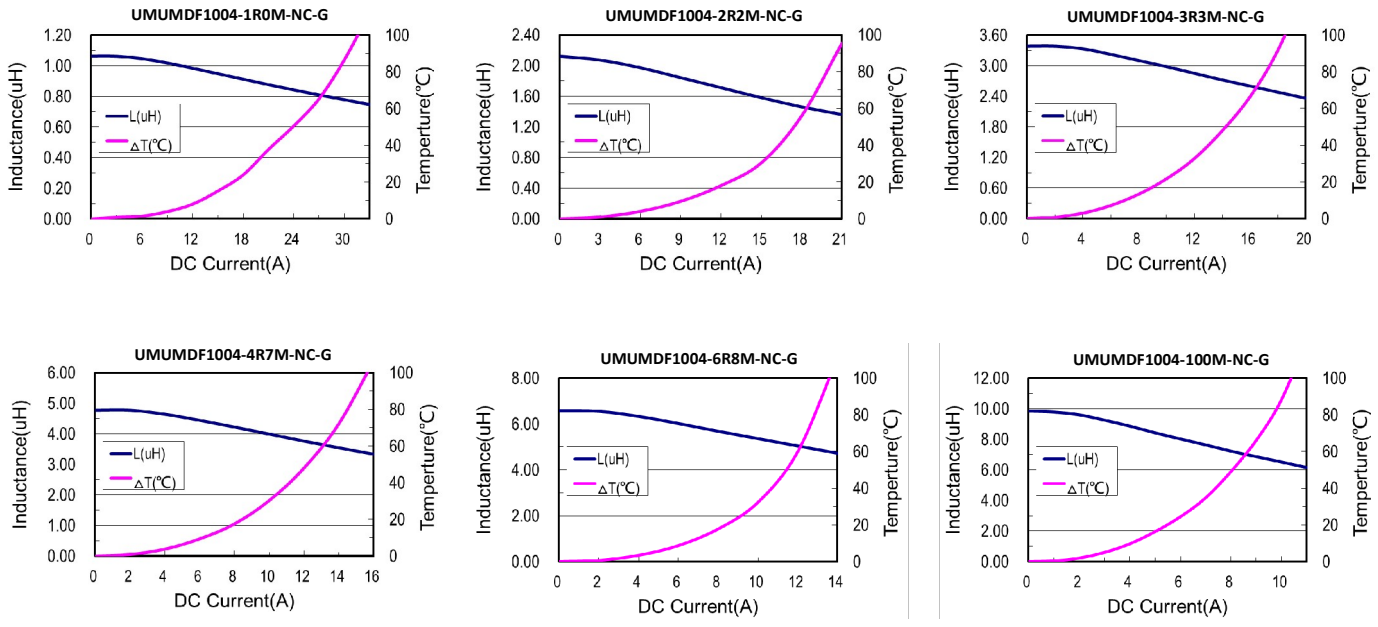
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

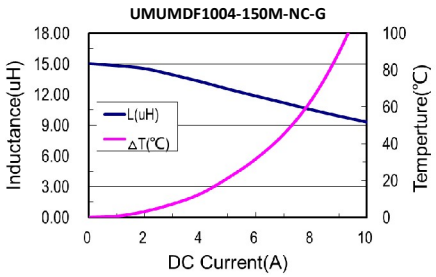
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

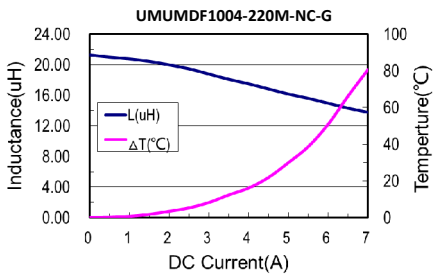
Note 4: Operating temperature range includes self-temperature rise.

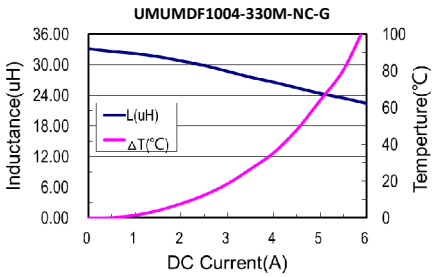
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

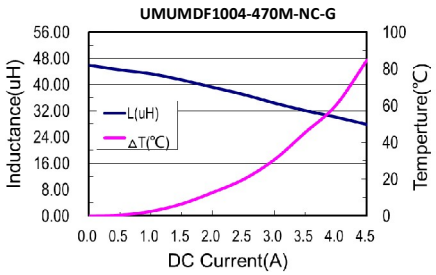
Typical Performance curves:




UMUMDF1004-150M-NC-G
Inductance(uH)
Temperture(℃)
DC Current(A)
L(uH)
△T(℃)

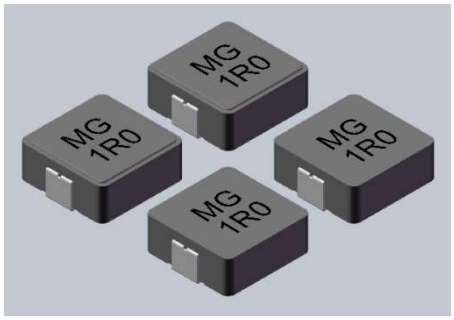

UMUMDF1004-220M-NC-G
Inductance(uH)
Temperture(℃)
DC Current(A)
L(uH)
△T(℃)


UMUMDF1004-330M-NC-G
Inductance(uH)
Temperture(℃)
DC Current(A)
L(uH)
△T(℃)


UMUMDF1004-470M-NC-G
Inductance(uH)
Temperture(℃)
DC Current(A)
L(uH)
△T(℃)

UMUMDFS0603-NC-G SERIES

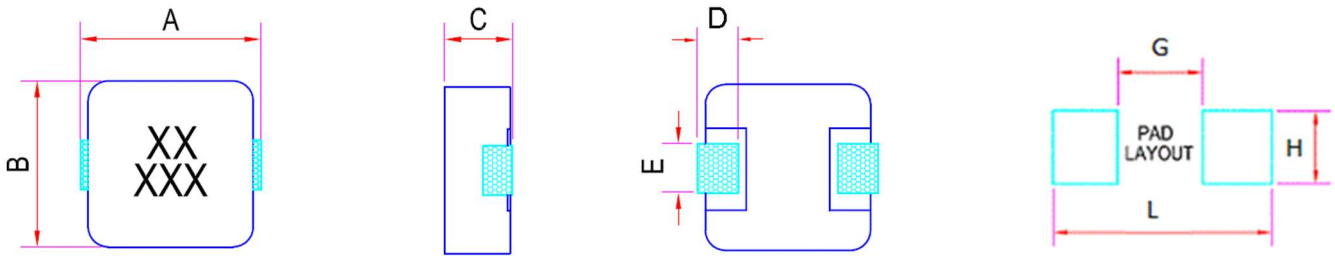
HIGH POWER INDUCTOR



Applications:

- Automotive reliability comply with AEC-Q200 grade 1
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors
- LED drivers

Shape and Dimensions



Item	A	B	C	D	E	G	H	L
UMUMDFS0603-NC-G	7.10±0.2	6.60±0.2	2.80±0.2	1.60±0.3	3.00±0.5	3.70	3.50	8.00

Features :

. High performance(I sat)realized by metal dust core.

. Low loss realized with low DCR

. Compliance with RoHS and Halogen Free

Characteristics:

. Saturation Current (Isat) : The current will cause L_0 to drop approximately 30% typical

. Temperature Rise(Irms) : The current will cause the coil temperature rise approximately △T=40℃

. Operating Temperature : -55 ℃ to 125 ℃

Product Identification:

UMUMDFS 0603 – 2R2 M – NC – G

(1) (2) (3) (4) (5)

(1) Product Symbol

(2) Dimensions Code

(3) Inductance: **2R2** for **2.2** uH.

(4) Inductance tolerance: **M**: ± 20%

(5) No Coating & Powder Type

Test equipments:

. L:Wayne Kerr 3260B Precision Magnetics Analyzer

. DCR:IOKI RM 3545 DC resistance meters

. IWT test:CHROMA 19301A(Impulse winding test)

● UMUMDFS0603-NC-G Series

Part No.	Inductance Lo (uH)	Tolerance (±%)	DCR(mΩ)		Isat(A)		Irms(A)	
			Typ.	Max	Typ.	Max.	Typ.	Max.
UMUMDFS0603-1R0M-NC-G	1.0	20	7.0	8.0	20	18	15	12.5
UMUMDFS0603-1R5M-NC-G	1.5	20	9.5	12	16	14	12	10
UMUMDFS0603-2R2M-NC-G	2.2	20	14	17	13	11	10	9.0
UMUMDFS0603-4R7M-NC-G	4.7	20	30	34	10	9.0	7.5	6.0
UMUMDFS0603-6R8M-NC-G	6.8	20	41	48	8.0	7.0	5.5	5.0
UMUMDFS0603-8R2M-NC-G	8.2	20	48	57	6.0	5.5	5.2	4.8
UMUMDFS0603-100M-NC-G	10	20	62	72	5.5	5.0	4.8	4.3
UMUMDFS0603-220M-NC-G	22	20	125	135	4.0	3.5	3.3	2.9

Please contact us if you have any other requirement on product performance.

Note 1: Referenced ambient temperature 20℃.

Note 2: Test Condition :100KHz , 0.25Vrms.

Note 3: I sat (Typ) : DC current（A）that will cause L0 to drop approximately 30%

I sat (Max) : DC current（A）that will cause L0 to drop 30% Max

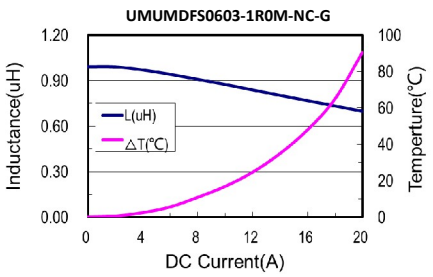
I rms (Typ) : DC current（A）that will cause an approximate ΔT of 40℃

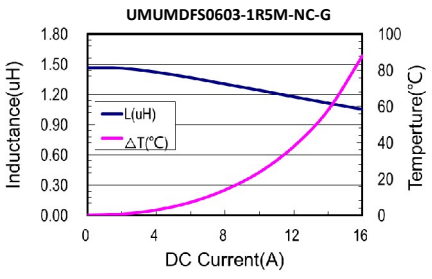
I rms (Max) : DC current（A）that will cause an ΔT of 40℃ Max

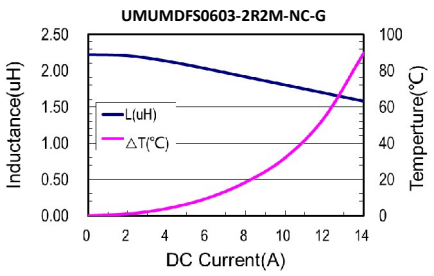
Note 4: Operating temperature range includes self-temperature rise.

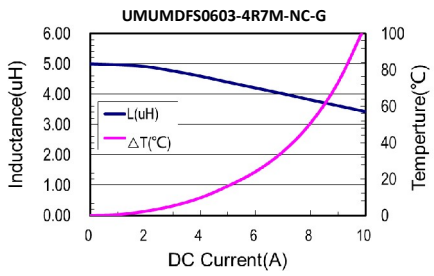
Note 5: The rated current as listed is either the saturation current or the heating current depending on which value is lower.

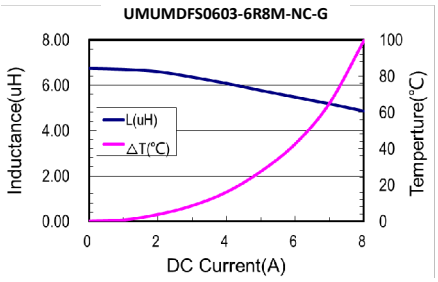
Typical Performance curves:

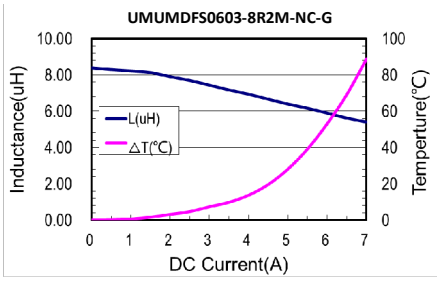


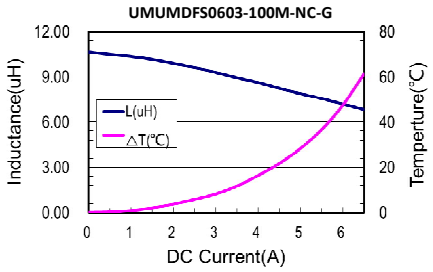


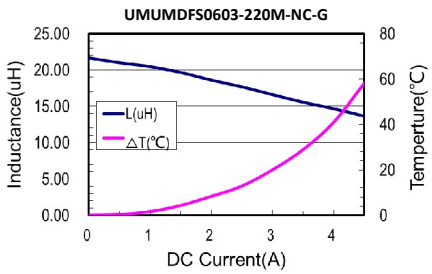









UMUMDFS0603-100M-NC-G
Inductance(uH)
Temperture(°C)
L(uH)
△T(°C)
DC Current(A)
12.00
9.00
6.00
3.00
0.00
80
60
40
20
0
0 1 2 3 4 5 6

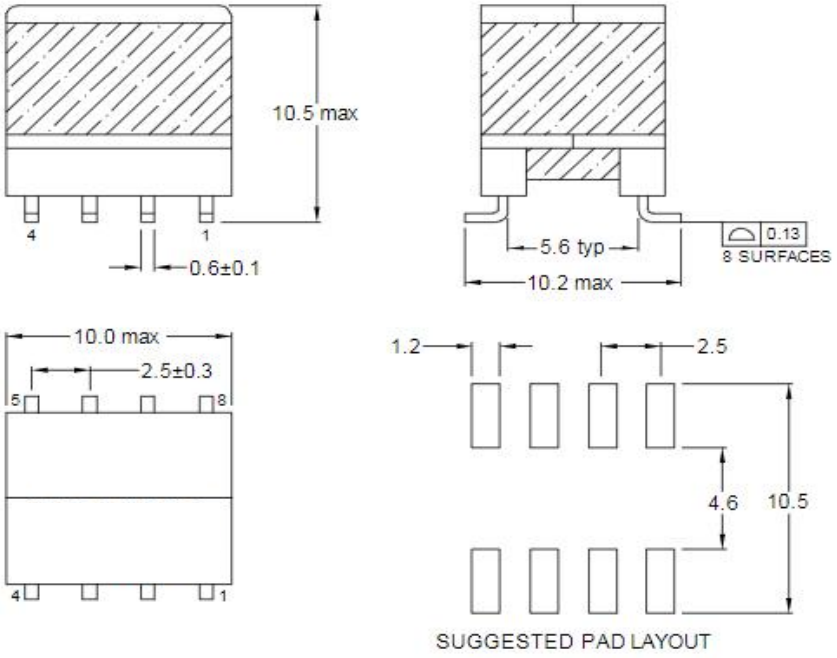

UMUMDFS0603-220M-NC-G
Inductance(uH)
Temperture(°C)
L(uH)
△T(°C)
DC Current(A)
25.00
20.00
15.00
10.00
5.00
0.00
80
60
40
20
0
0 1 2 3 4

POWER TRANSFORMER CATALOG

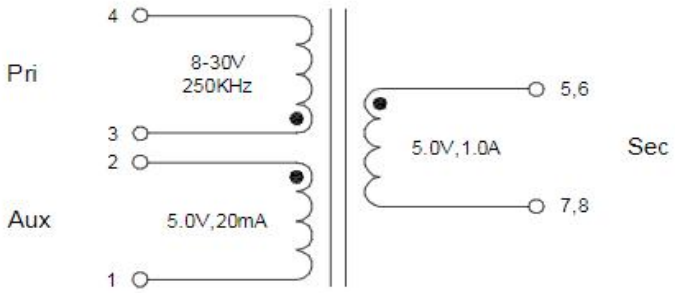
IEC60950 Compatible
RoHS Compliant
Surface Mount Device
Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±10%) @100KHz, 0.1V	Lk(uH±3%) @100KHz, 0.1V	DCR (Ω Max)			HI-POT(Vrms)
	(3-4):(5,6-7,8):(2-1)	(3-4)	(3-4) short other	(3-4)	(5,6-7,8)	(2-1)	P-S
UEP07C001	3:1:1	30	1	70	15	120	1500

Mechanical Dimensions:



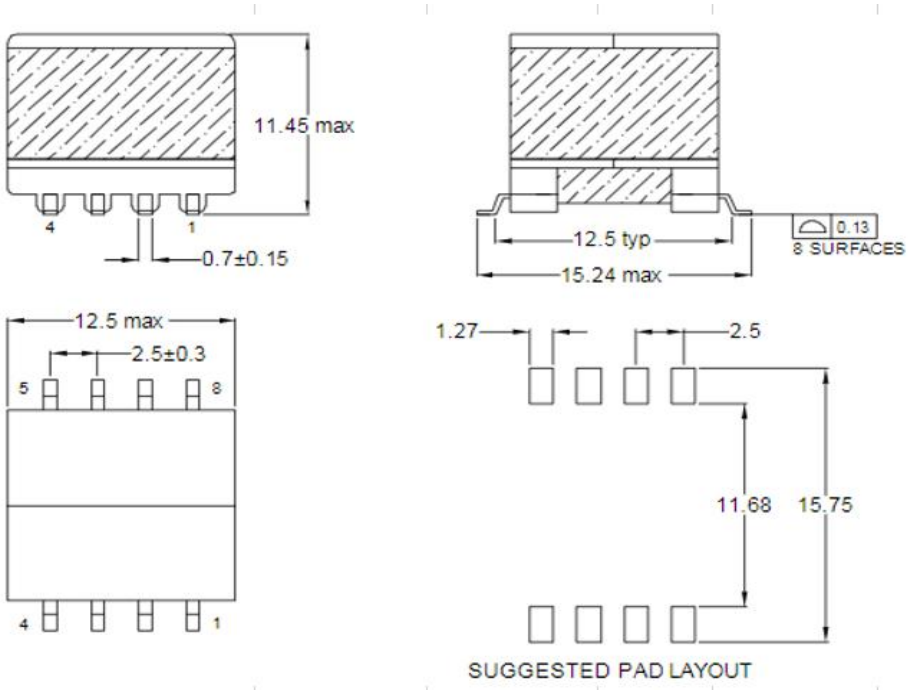
Schematic:



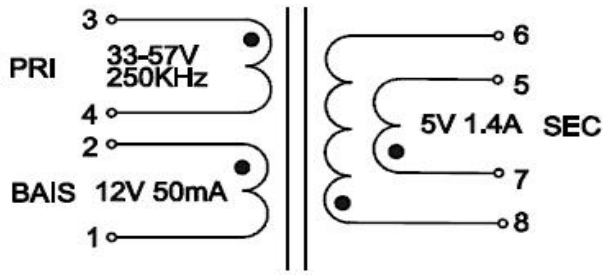
IEC60950 Compatible
RoHS Compliant
Surface Mount Device
Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±10%) @100KHz, 0.1V	Lk(uH Max) @100KHz, 0.1V	DCR (Ω Max)			HI-POT(Vrms)
	(3-4):(9,10-7,8):(2-1)	(3-4)	(3-4) short other	(3-4)	(5,6-7,8)	(2-1)	P-S
UEP10C001	1:0.18:0.42	155	3.6	0.414	15	0.822	1500

Mechanical Dimensions:



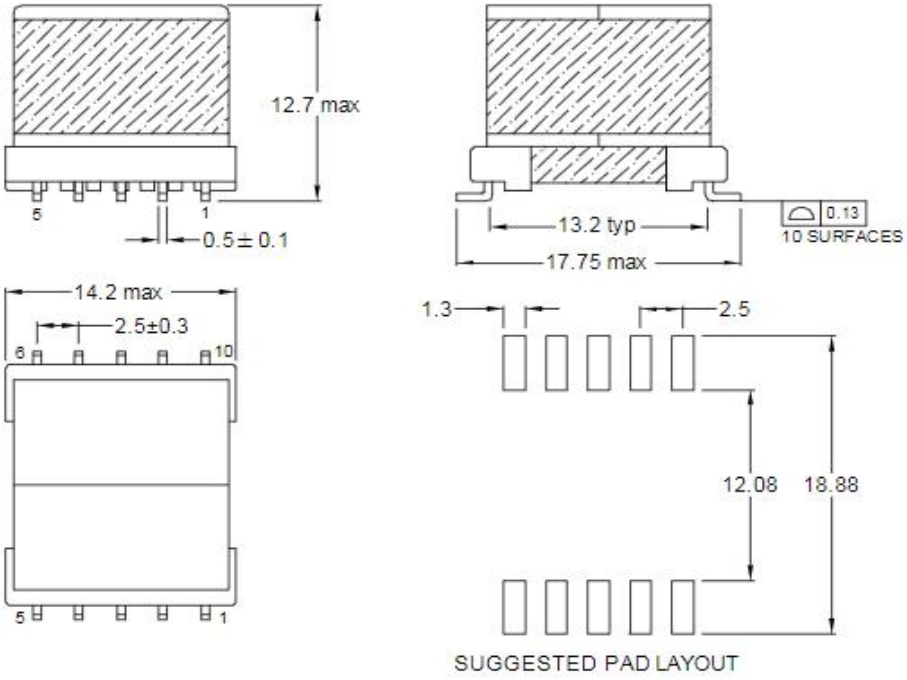
Schematic:



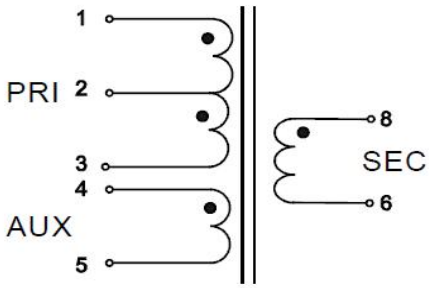
IEC60950 Compatible
RoHS Compliant
Surface Mount Device
Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±10%) @100KHz, 0.1V	Lk(uH Max) @100KHz, 0.1V	DCR (Ω Max)			HI-POT(Vrms)
	(1-3):(8-6):(4-5)	(1-3)	(1-3) short other	(1-3)	(8-6)	(4-5)	P-S
UEP13C001	3:1:1	170	10	0.4	0.06	0.4	1500

Mechanical Dimensions:



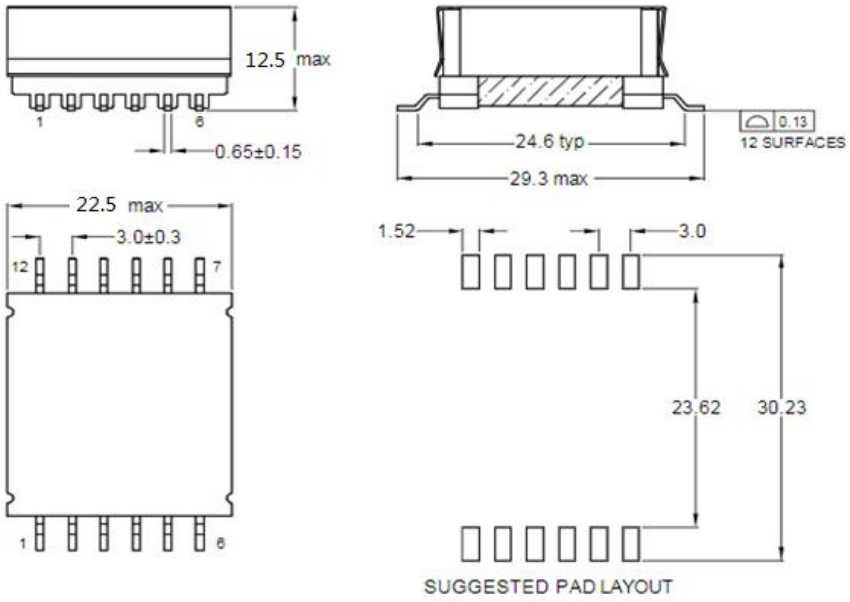
Schematic:



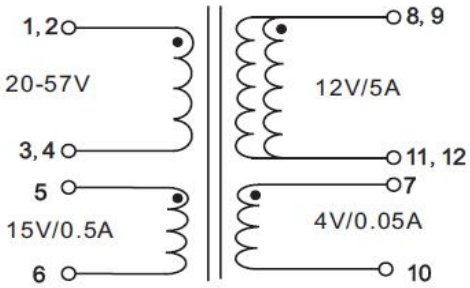
IEC60950 Compatible
RoHS Compliant
Surface Mount Device
Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃								
Part Number	Turns Ratio (±3%)	L(uH±10%) @100KHz, 0.1V	Lk(uH Max) @200KHz, 0.1V	DCR (Ω Max)				HI-POT(Vrms)
	(1, 2-3, 4) : (8, 9-11, 12) : (5-6) : (7-10)	(1, 2-3, 4)	(1, 2-3, 4) short other	(1, 2-3, 4)	(8, 9-11, 12)	(7-10)	(5-6)	P-S
UED20C001	13:12:8:3	100	0.8	45	25	140	350	2000

Mechanical Dimensions:



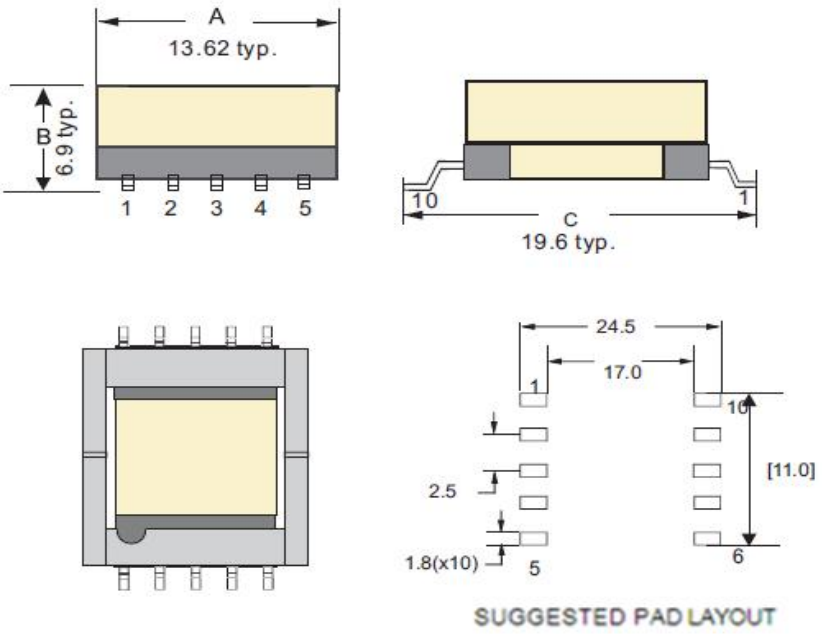
Schematic:



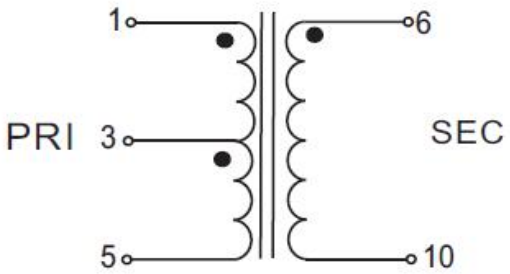
IEC60950 Compatible
RoHS Compliant
Surface Mount Device
Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃						
Part Number	Turns Ratio (±3%)	L(mH Min) @200KHz, 0.1V	Lk(mH Max) @200KHz, 0.1V	DCR (Ω Max)		HI-POT(Vrms)
	(1-5):(6-10)	(1-5)	(1-5) short other	(1-5)	(6-10)	P-S
UEC13C001	1:1	320	25	80	138	1500

Mechanical Dimensions:



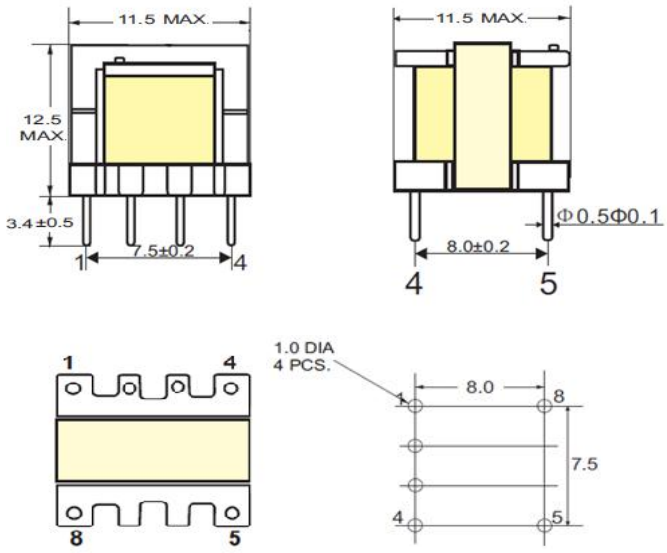
Schematic:



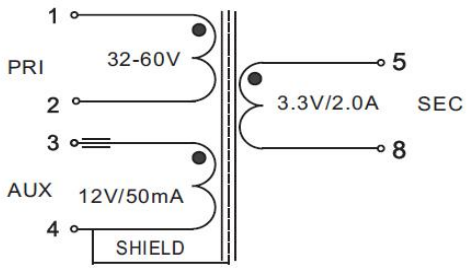
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±10%) @200KHz, 0.3V	Lk(uH Max) @200KHz, 0.3V	DCR (mΩ Max)			HI-POT(Vrms)
	(1-2):(5-8):(3-4)	(1-2)	(1-2) short (5,8)	(1-2)	(2-4)	(5-8)	P-S
UEE10T001	12:3:6	25.7uH	1	116.4	470	25	600

Mechanical Dimensions:



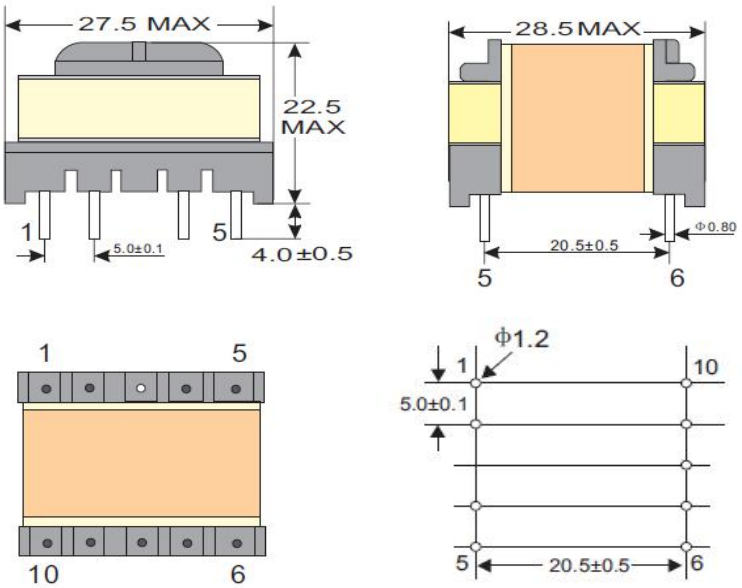
Schematic:



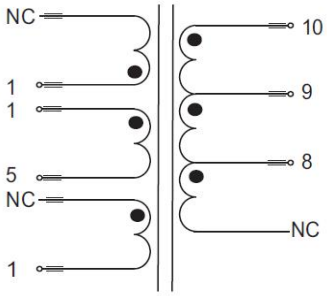
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±10%) @100KHz,1V	Lk(uH Max) @100KHz,1V	DCR (Ω Max)			HI-POT(Vrms)
	(3-4):(9,10-6,7):(1-2)	(5-1)	(5-1) short other	(5-1)	(9-8)	(10-9)	P-S
UEF25T001	73:4:9	800	80	TBD	TBD	TBD	2000

Mechanical Dimensions:



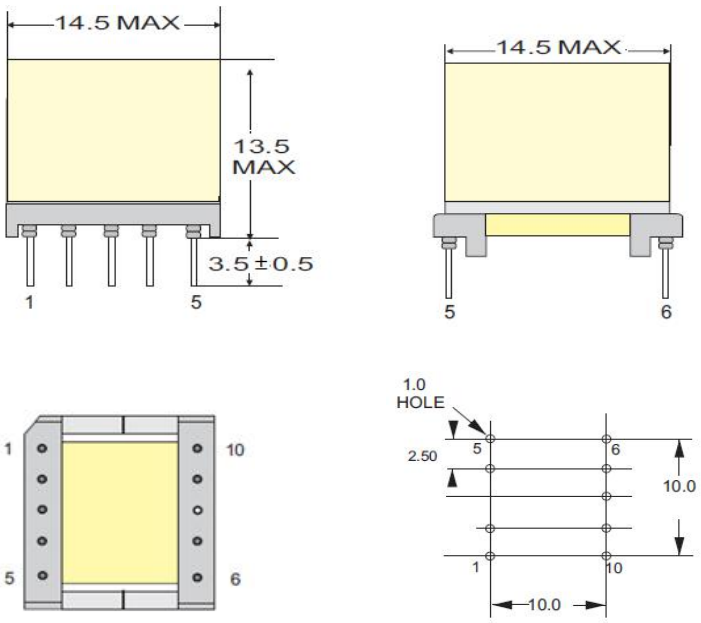
Schematic:



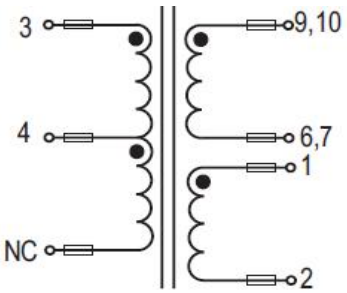
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±10%) @100KHz,1V	Lk(uH Max) @100KHz,1V	DCR (Ω Max)			HI-POT(Vrms)
	(3-4):(9,10-6,7):(1-2)	(3-4)	(3-4) short other	(3-4)	(9,10-6,7)	(1-2)	P-S
UEP13T001	73:04:09	863	38	1.58	0.017	0.054	3000

Mechanical Dimensions:



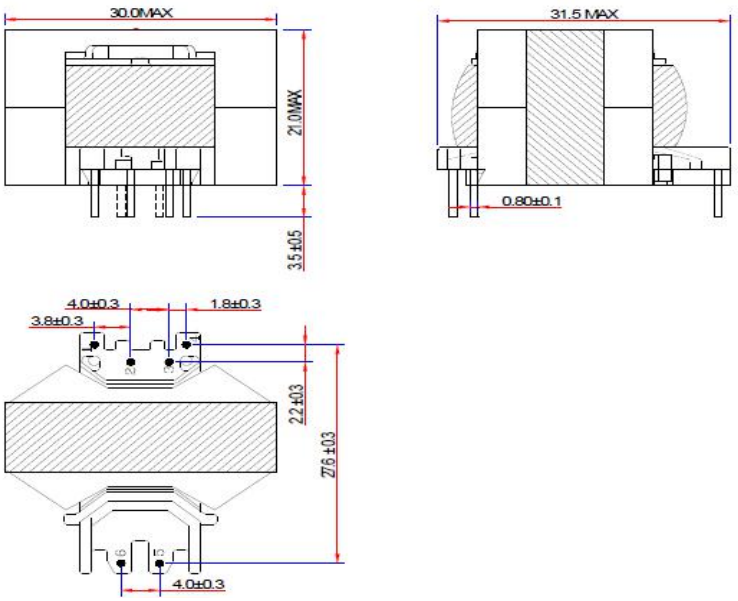
Schematic:



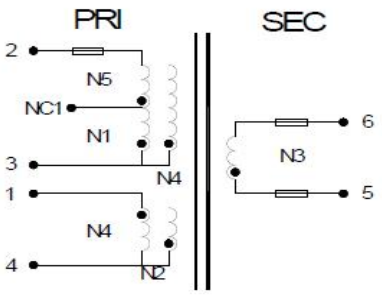
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±5%) @10KHz,1V	Lk(uH Max) @10KHz,1V	DCR (Ω Max)			HI-POT(Vrms)
	(2-3):(1-4):(5-6)	(2-3)	(2-3) short other	(2-3)	(1-4)	(5-6)	P-S
URM10T001	44:8:6	900	30	TBD	TBD	TBD	3600

Mechanical Dimensions:



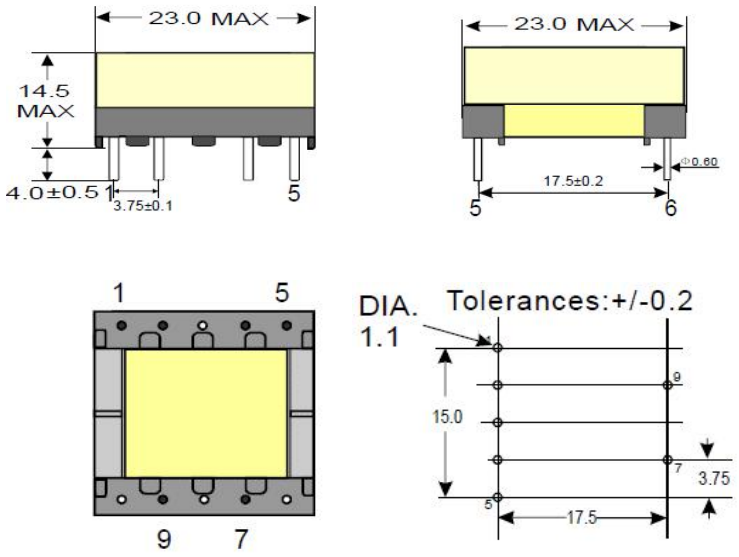
Schematic:



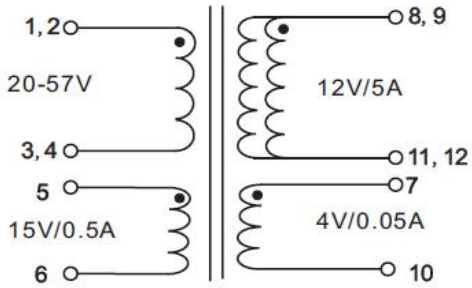
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃						
Part Number	Turns Ratio (±3%)	L(uH±10%) @200KHz, 0.3V	Lk(uH Max) @200KHz, 0.3V	DCR (mΩ Max)		HI-POT(Vrms)
	(1, 2-3, 4) : (8, 9-11, 12) : (5-6) : (7-10)	(1, 2-4, 5)	(1, 2-4, 5) short (7, 9)	(1, 2-4, 5)	(9-7)	P-S
UED20T001	13:12:8:3	18	0.6	7	320	1500

Mechanical Dimensions:



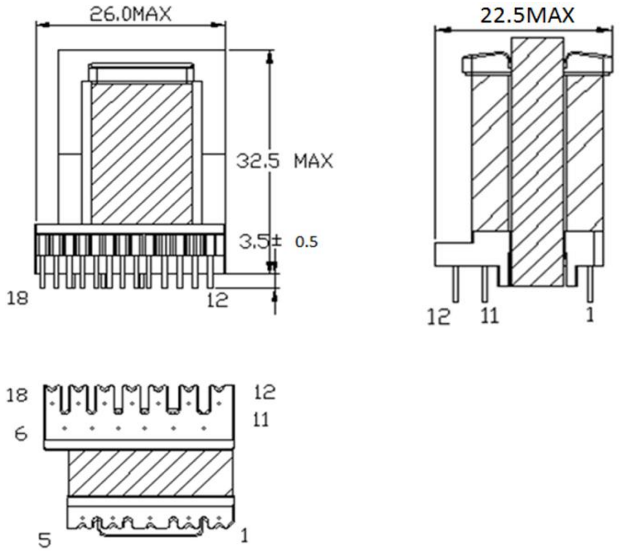
Schematic:



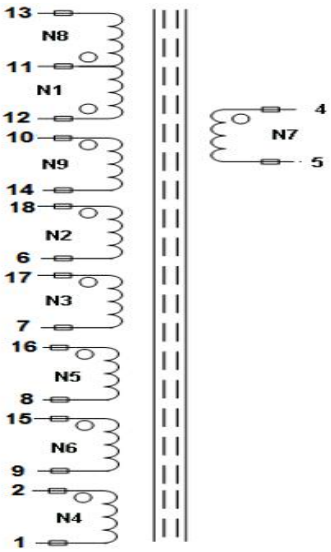
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃					
Part Number	Turns Ratio (±3%)	L(uH±10%) @100KHz,1V	Lk(uH Max) @100KHz,1V	DCR (Ω Max)	HI-POT(Vrms)
	N1:N2:N3;N4:N5:N6:N7:N8	(12-13)	(12-13) short other	(12-13)	P-S
UEL22T001	38:14:14:13:13:41:38:13	540	80	1.4	3000

Mechanical Dimensions:



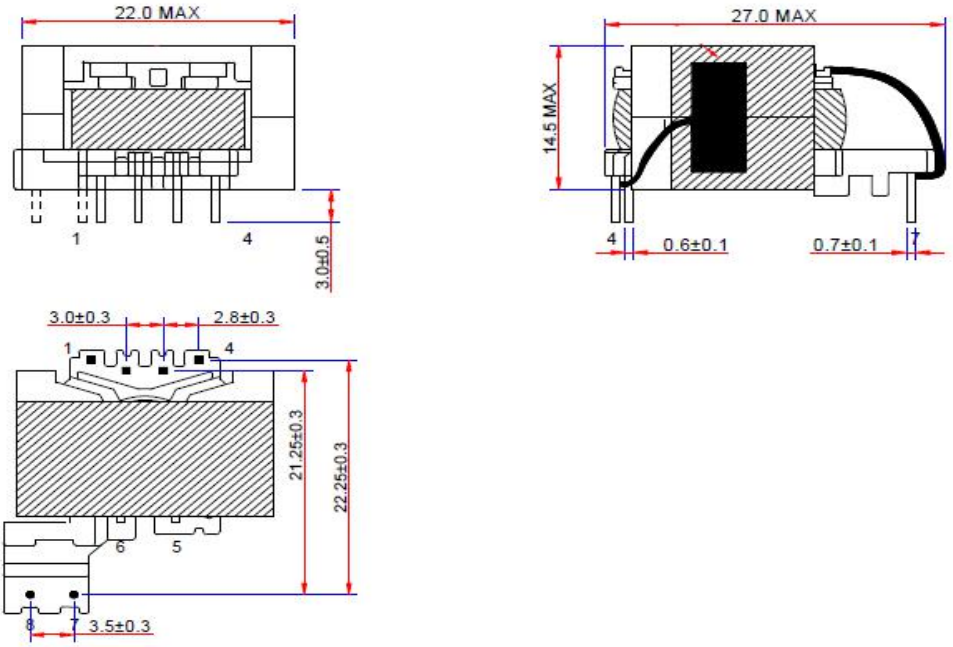
Schematic:



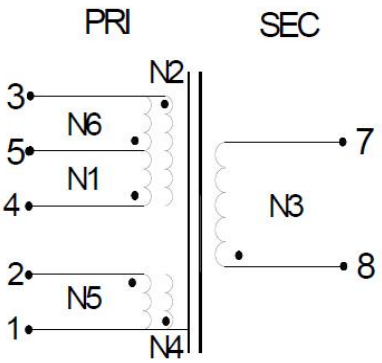
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	Turns Ratio (±3%)	L(uH±5%) @10KHz,1V	Lk(uH Max) @10KHz,1V	DCR (Ω Max)			HI-POT(Vrms)
	(4-3):(2-1):(8-7)	(4-3)	(4-3) short (8-7)	(4-3)	(2-1)	(6-10)	P-S
UPQ20T001	46:11:5	320	20	0.55	0.4	0.014	3600

Mechanical Dimensions:



Schematic:

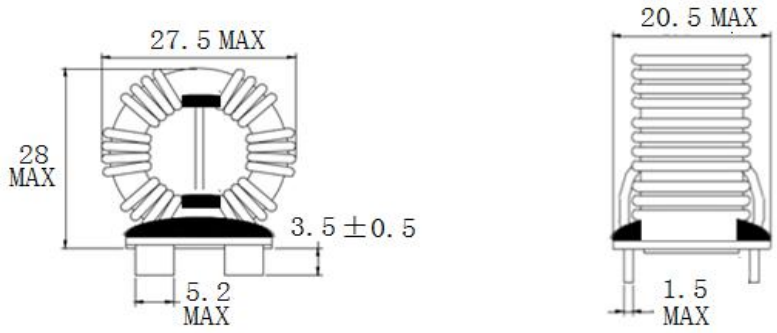


COMMON MODE CHOCK CATALOG

►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃					
Part Number	L(uH Min) @1KHz, 0.3V		DCR (Ω Max)		HI-POT(Vrms)
	(1-2)	(4-3)	(1-2)	(4-3)	P-S
UT022T001	55	55	0.005	0.005	1500

Mechanical Dimensions:



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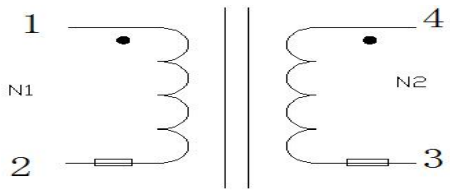
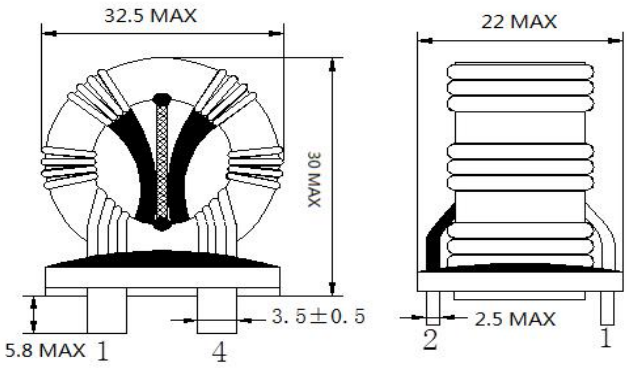


►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃					
Part Number	L(uH Min) @1KHz, 0.3V		DCR (Ω Max)		HI-POT(Vrms)
	(1-2)	(4-3)	(1-2)	(4-3)	P-S
UT025T001	55	55	0.005	0.005	1500

Mechanical Dimensions:



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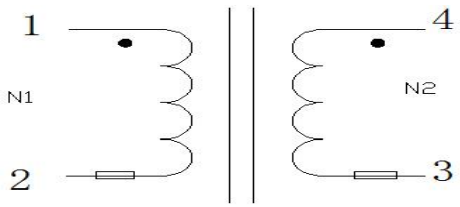
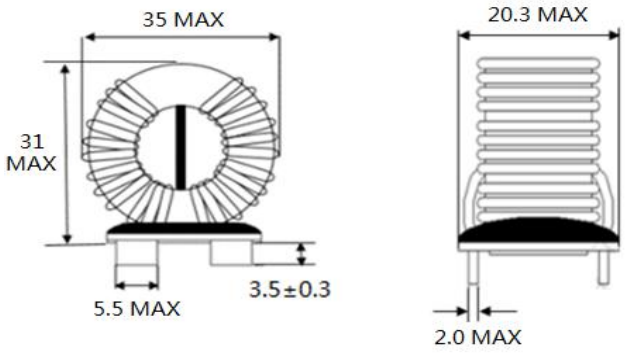


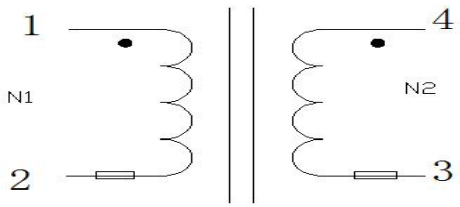
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃					
Part Number	L(uH Min) @1KHz, 0.3V		DCR (mΩ Max)		HI-POT(Vrms)
	(1-2)	(4-3)	(1-2)	(4-3)	P-S
UT028T001	60	60	5	5	1500

Mechanical Dimensions:



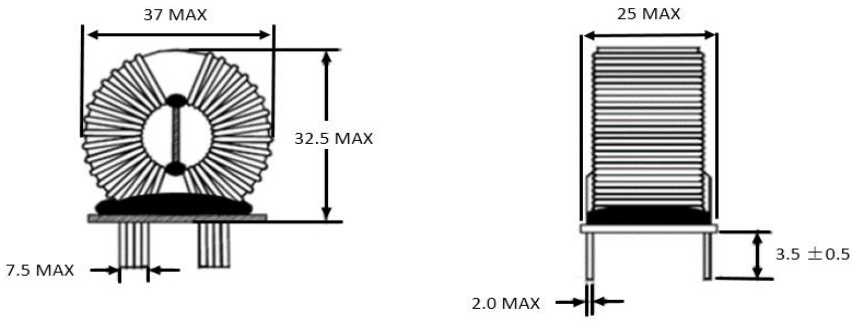
Schematic:



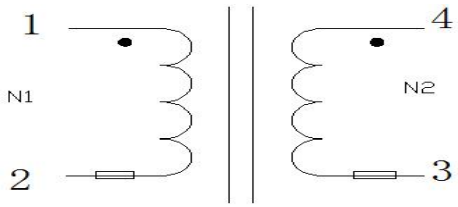
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	L(uH Min) @1KHz, 0.3V		L(uH Min) @200KHz, 0.3V		DCR (mΩ Max)		HI-POT(Vrms)
	(1-2)	(4-3)	(1-2)	(4-3)	(1-2)	(4-3)	P-S
UT029T001	75	75	50	50	0.5	0.5	1000

Mechanical Dimensions:



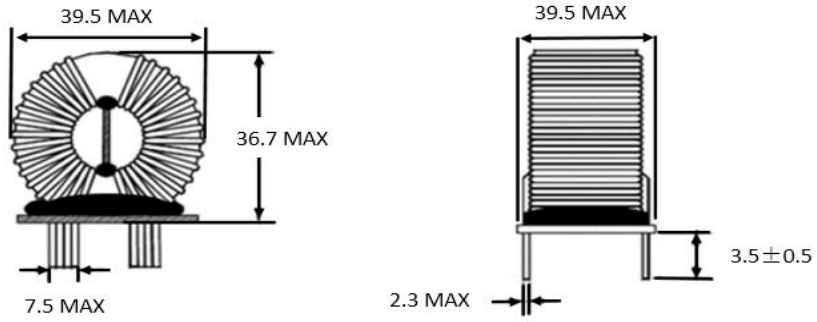
Schematic:



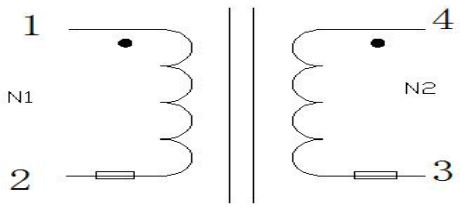
►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃					
Part Number	L(uH Min) @1KHz, 0.3V		DCR (mΩ Max)		HI-POT(Vrms)
	(1-2)	(4-3)	(1-2)	(4-3)	P-S
UT028T001	306	306	30	30	1500

Mechanical Dimensions:



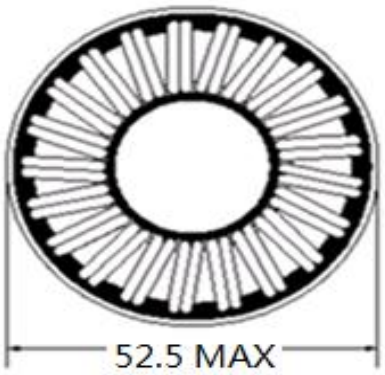
Schematic:

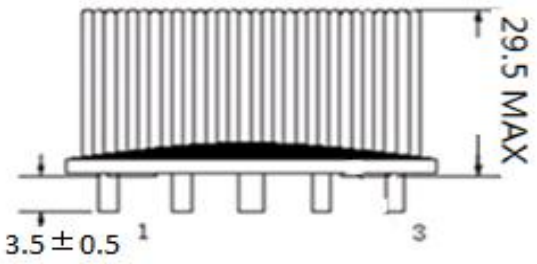


►IEC60950 Compatible
►RoHS Compliant
►High insulation type high efficiency
►Operating temperature range(Including self temperature rise): -40°C to +125°C

Electrical Specification @25℃							
Part Number	L(uH Min) @1KHz, 0.3V			DCR (mΩ Max)			HI-POT(Vrms)
	(1-2)	(5-6)	(4-3)	(1-2)	(5-6)	(4-3)	P-S
UT042T001	500	500	500	4	4	4	500

Mechanical Dimensions:





Schematic: