



成育科技股份有限公司

AMODE TECH.LTD.

合金电感系列目录

ACDNR功率绕线电感

(2019年)

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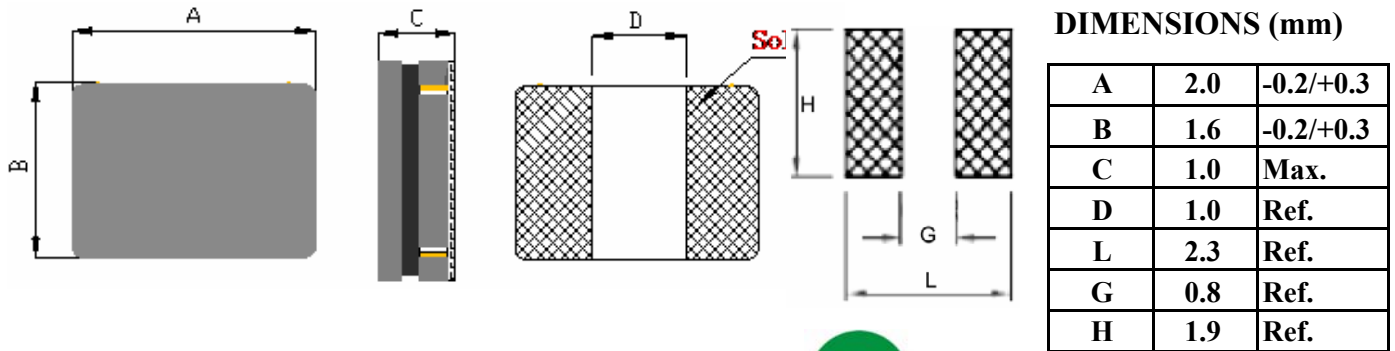
FAX: 86-512-86160087

<http://www.amode.com.tw>

Catalog of Products

Model	P/N	Size (mm)	Inductance (uH)	Page
	ACDNR201610MAT	201610	0.24-4.7	2
	ACDNR252010MAT	252010	0.24-4.7	3
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	ACDNR201608MRT	201608	1.0-10	5
	ACDNR252008MRT	252008	0.24-4.7	6
	ACDNR252012MRT	252012	0.24-10	7
	ACDNR3008MRT	3008	6.8-10	8
	ACDNR4008MRT	4008	0.47-10	9
	ACDNR201610MK	201610	0.33-10	10
	ACDNR252010MK	252010	0.33-10	11
	ACDNR252012MK	252012	0.33-22	12
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	ACDNR4020MK	4020	0.22-10	14
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	ACDNR201610MJ (主推)	201610	0.24-10	16
	ACDNR252008MJ (主推)	252008	2.2-10	17
	ACDNR252010MJ (主推)	252010	0.24-10	18
	ACDNR252012MJ (主推)	252012	0.24-10	19
	ACDNR3008MJ (主推)	3008	2.2-10	20
	ACDNR3010MJ (主推)	3010	2.2-10	21
	ACDNR3012MJ (主推)	3012	10	22
	ACDNR4010MJ (主推)	4010	0.24-22	23
	ACDNR4012MJ (主推)	4012	0.47-22	24
	ACDNR5020MJ (主推)	5020	6.8	25

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS



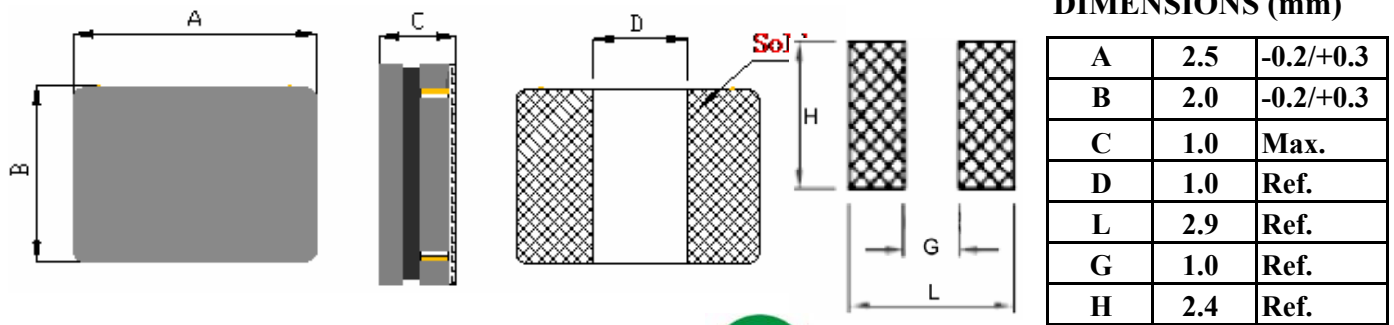
Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR201610MAT-R24MT	0.24	1MHz/1V	7.50	6.50	5.70	5.10	15	20
ACDNR201610MAT-R33MT	0.33	1MHz/1V	5.50	5.00	5.50	5.00	18	23
ACDNR201610MAT-R47MT	0.47	1MHz/1V	5.20	4.50	4.70	4.30	24	29
ACDNR201610MAT-R68MT	0.68	1MHz/1V	5.10	4.40	3.90	3.50	36	44
ACDNR201610MAT-1R0MT	1.0	1MHz/1V	4.50	4.00	3.20	2.90	50	60
ACDNR201610MAT-1R5MT	1.5	1MHz/1V	3.20	2.80	2.90	2.50	68	82
ACDNR201610MAT-2R2MT	2.2	1MHz/1V	2.70	2.40	2.20	2.00	100	120
ACDNR201610MAT-4R7MT	4.7	1MHz/1V	1.60	1.40	1.60	1.40	180	216

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS

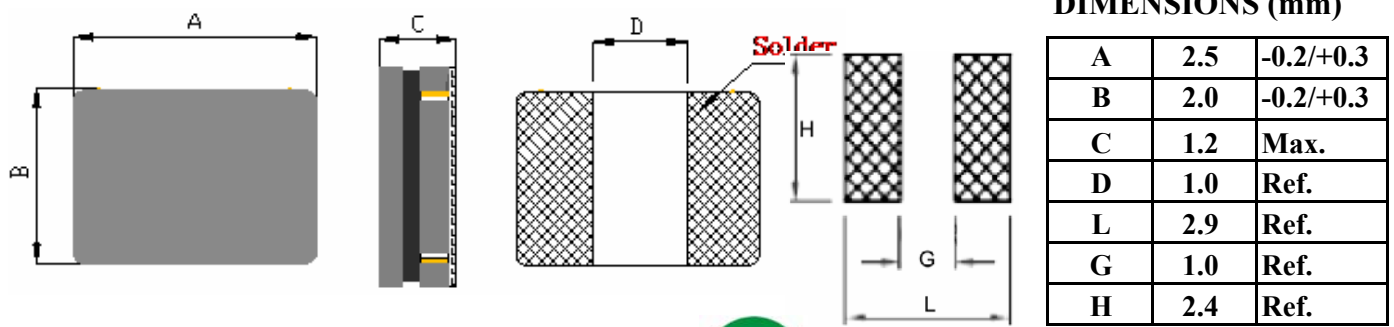
Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252010MAT-R24MT	0.24	1M/1V	9.50	8.00	5.50	5.00	18	22
ACDNR252010MAT-R33MT	0.33	1M/1V	8.00	6.50	5.30	4.80	23	28
ACDNR252010MAT-R47MT	0.47	1M/1V	7.00	5.90	4.60	4.20	27	35
ACDNR252010MAT-R68MT	0.68	1M/1V	5.50	4.60	4.20	3.80	32	40
ACDNR252010MAT-1R0MT	1.0	1M/1V	4.90	4.30	3.50	3.10	44	53
ACDNR252010MAT-1R5MT	1.5	1M/1V	3.80	3.10	3.20	2.80	62	74
ACDNR252010MAT-2R2MT	2.2	1M/1V	2.80	2.30	2.60	2.30	78	93
ACDNR252010MAT-3R3MT	3.3	1M/1V	2.10	1.80	2.00	1.80	125	150
ACDNR252010MAT-4R7MT	4.7	1M/1V	1.70	1.40	1.70	1.50	180	216

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I. MECHANICAL DIMENSION



II. ELECTRICAL CHARACTERISTICS



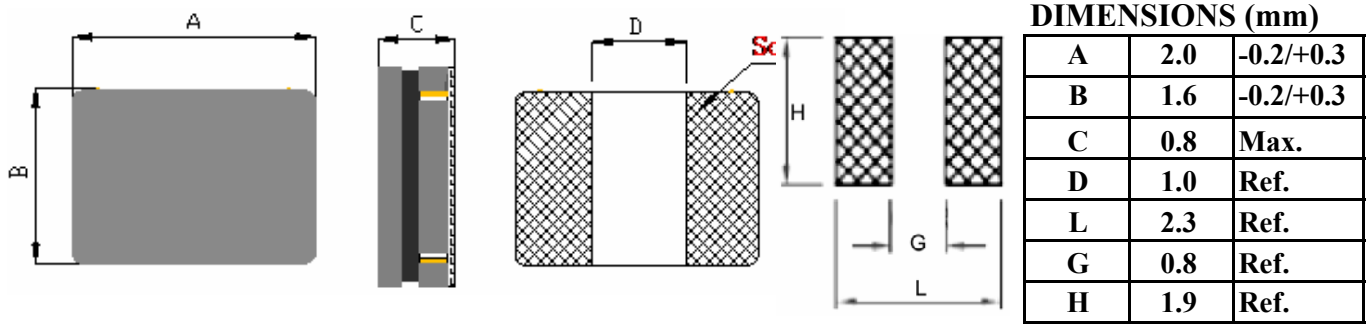
Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252012MAT-R33MT	0.33	1M/1V	8.00	7.20	5.50	5.00	16	21
ACDNR252012MAT-R47MT	0.47	1M/1V	7.40	6.70	5.00	4.50	17	23
ACDNR252012MAT-1R0MT	1.0	1M/1V	5.30	4.70	3.90	3.30	34	40
ACDNR252012MAT-2R2MT	2.2	1M/1V	3.40	3.00	2.60	2.20	70	84
ACDNR252012MAT-3R3MT	3.3	1M/1V	1.50	1.30	1.40	1.20	85	100

REMARK :

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※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS

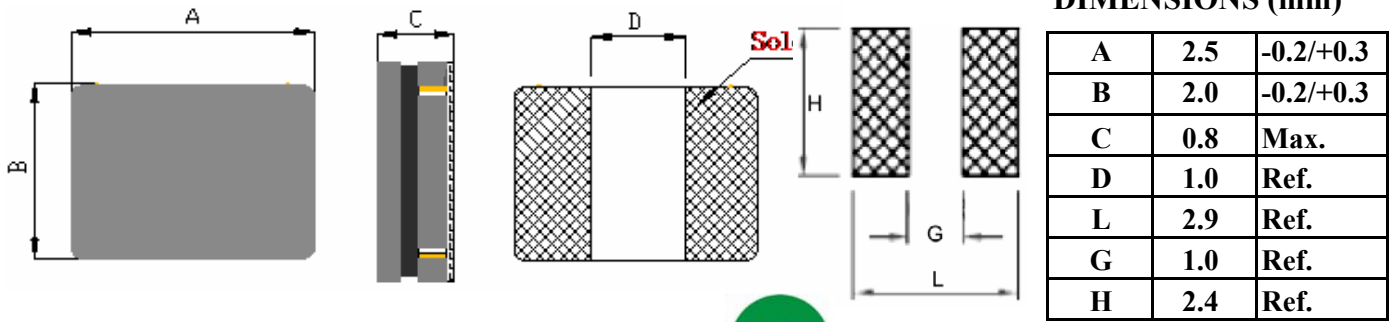
Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR201608MRT-1R0MT	1.0±20%	1MHz/1V	3.00	2.50	2.20	1.80	130	150
ACDNR201608MRT-2R2MT	2.2±20%	1MHz/1V	2.50	2.00	1.80	1.40	267	320
ACDNR201608MRT-100MT	10±20%	1MHz/1V	0.80	0.70	0.90	0.80	800	960

REMARK :

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※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I. MECHANICAL DIMENSION



II. ELECTRICAL CHARACTERISTICS



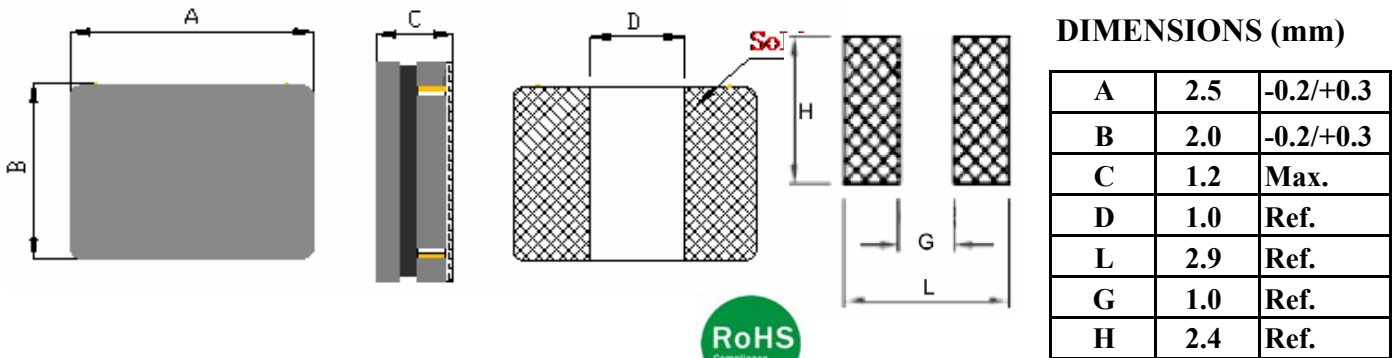
Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252008MRT-R24MT	0.24	1M/1V	5.30	4.80	4.50	4.00	35	42
ACDNR252008MRT-R33MT	0.33	1M/1V	4.80	4.30	3.90	3.50	40	55
ACDNR252008MRT-R47MT	0.47	1M/1V	4.50	4.00	3.70	3.30	45	60
ACDNR252008MRT-R68MT	0.68	1M/1V	4.00	3.50	3.50	3.00	60	75
ACDNR252008MRT-1R0MT	1.0	1M/1V	3.20	2.80	2.80	2.50	70	90
ACDNR252008MRT-1R5MT	1.5	1M/1V	2.80	2.60	2.30	2.10	105	127
ACDNR252008MRT-2R2MT	2.2	1M/1V	2.00	1.80	1.80	1.60	150	180
ACDNR252008MRT-3R3MT	3.3	1M/1V	1.60	1.30	1.60	1.30	220	260
ACDNR252008MRT-4R7MT	4.7	1M/1V	1.50	1.20	1.20	1.00	360	430

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252012MRT-R24MT	0.24	1M/1V	8.00	7.00	5.50	5.00	18	22
ACDNR252012MRT-R33MT	0.33	1M/1V	7.00	6.00	5.10	4.60	23	28
ACDNR252012MRT-R47MT	0.47	1M/1V	6.00	5.00	4.80	4.30	27	35
ACDNR252012MRT-R68MT	0.68	1M/1V	5.00	4.50	4.00	3.60	36	45
ACDNR252012MRT-1R0MT	1.0	1M/1V	4.30	3.80	3.50	3.20	45	58
ACDNR252012MRT-1R5MT	1.5	1M/1V	3.50	3.00	3.10	2.70	60	72
ACDNR252012MRT-2R2MT	2.2	1M/1V	3.10	2.60	2.50	2.20	90	108
ACDNR252012MRT-3R3MT	3.3	1M/1V	2.20	1.90	2.10	1.80	125	150
ACDNR252012MRT-4R7MT	4.7	1M/1V	2.00	1.70	1.70	1.40	190	220
ACDNR252012MRT-6R8MT	6.8	1M/1V	1.80	1.50	1.20	1.00	300	360
ACDNR252012MRT-100MT	10	1M/1V	1.40	1.10	1.00	0.90	420	475

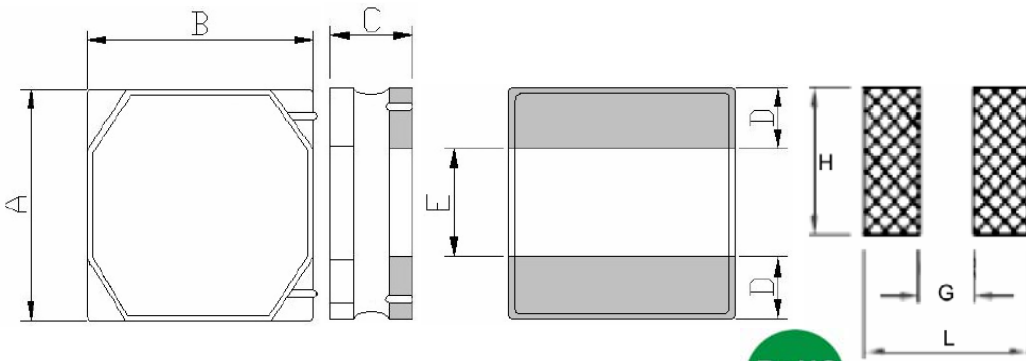
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR3008MRT SERIES

I. MECHANICAL DIMENSION



DIMENSIONS (mm)

A	3.0	±0.3
B	3.0	±0.3
C	0.8	Max.
D	1.0	Ref.
E	1.0	Ref.
L	3.2	Ref.
G	1.0	Ref.
H	3.2	Ref.

II. ELECTRICAL CHARACTERISTICS

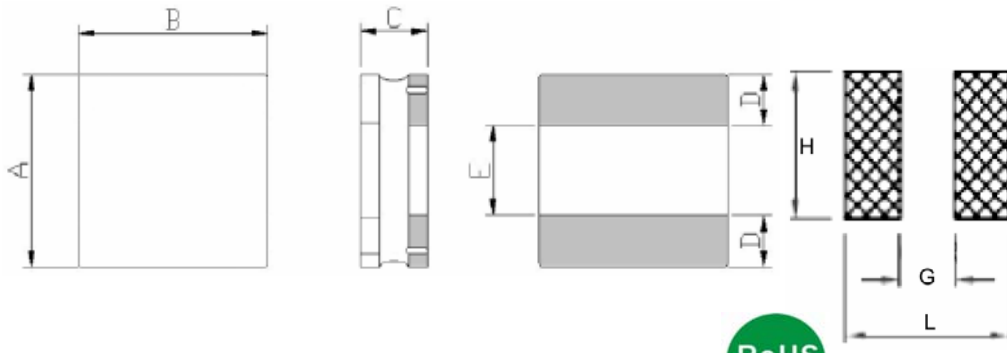


Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR3008MRT-6R8MT	6.8	100K/1V	1.60	1.40	1.30	1.00	400	460
ACDNR3008MRT-100MT	10	100K/1V	1.50	1.30	1.00	0.90	860	900

REMARK :

- ※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)
- ※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	4.0	±0.3
B	4.0	±0.3
C	0.8	Max.
D	1.2	Ref.
E	1.6	Ref.
L	4.2	Ref.
G	1.2	Ref.
H	4.2	Ref.

II.ELECTRICAL CHARACTERISTICS



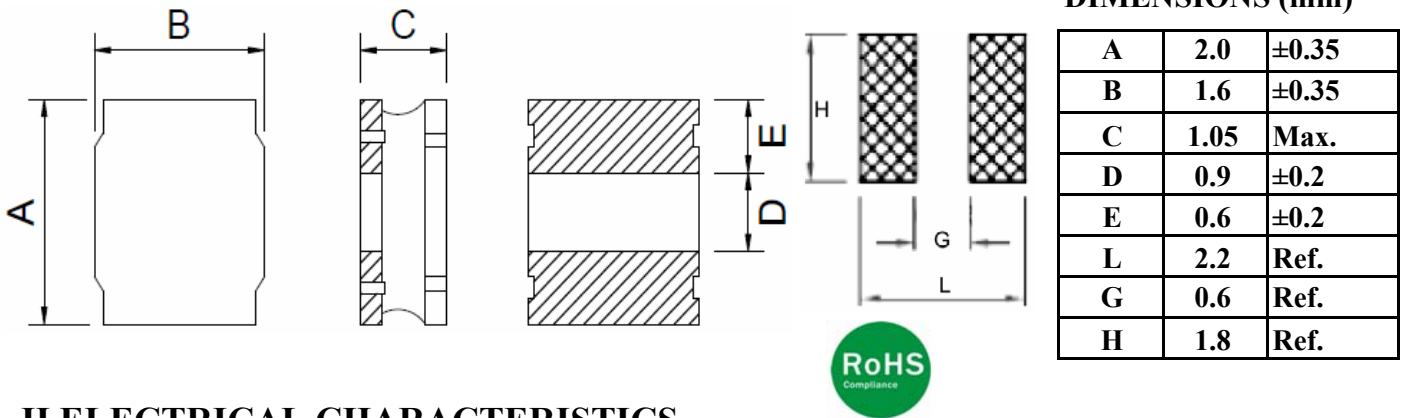
Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR4008MRT-R47MT	0.47	100K/1V	6.0	5.0	3.5	3.0	60	72
ACDNR4008MRT-R68MT	0.68	100K/1V	5.0	4.0	3.2	2.7	80	96
ACDNR4008MRT-1R0MT	1	100K/1V	4.0	3.5	3.0	2.5	100	120
ACDNR4008MRT-1R5MT	1.5	100K/1V	3.5	3.0	2.6	2.3	125	150
ACDNR4008MRT-2R2MT	2.2	100K/1V	3.0	2.7	2.3	2.0	150	180
ACDNR4008MRT-3R3MT	2.3	100K/1V	2.7	2.5	2.0	1.7	220	260
ACDNR4008MRT-4R7MT	4.7	100K/1V	2.5	2.3	1.7	1.5	300	360
ACDNR4008MRT-6R8MT	6.8	100K/1V	2.3	2.1	1.4	1.2	500	600
ACDNR4008MRT-100MT	10	100K/1V	2.1	1.9	1.2	1.0	700	840

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR201610MK-R33MT	0.33±20%	1M/0.25V	5.50	4.70	3.60	3.20	35	43
ACDNR201610MK-R47MT	0.47±20%	1M/0.25V	4.70	4.00	3.10	2.70	41	49
ACDNR201610MK-R68MT	0.68±20%	1M/0.25V	4.00	3.50	2.80	2.50	57	65
ACDNR201610MK-1R0MT	1.0±20%	1M/0.25V	3.85	3.35	2.35	2.05	75	90
ACDNR201610MK-1R5MT	1.5±20%	1M/0.25V	2.30	1.95	2.00	1.70	110	130
ACDNR201610MK-2R2MT	2.2±20%	1M/0.25V	2.15	1.90	1.70	1.45	142	170
ACDNR201610MK-4R7MT	4.7±20%	1M/0.25V	1.50	1.20	1.00	0.90	370	425
ACDNR201610MK-100MT	10±20%	1M/0.25V	0.95	0.80	0.75	0.65	688	826

1 .SOLDER Lead-free process (focus)

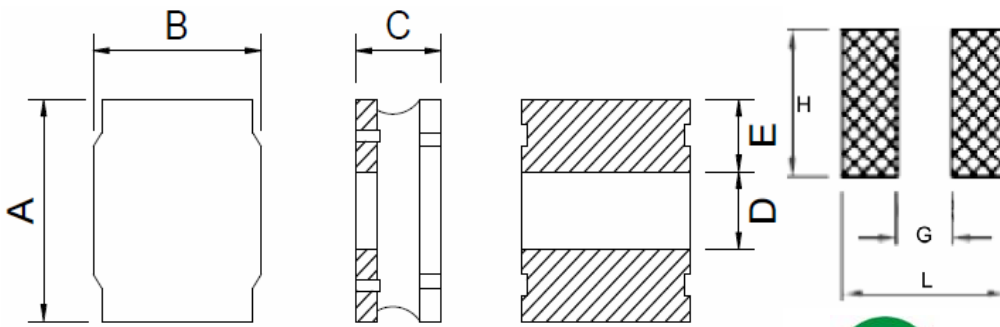
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR252010MK SERIES

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	2.5	±0.4
B	2.0	±0.4
C	1.05	Max.
D	0.8	±0.2
E	0.8	±0.2
L	2.6	Ref.
G	0.6	Ref.
H	2.2	Ref.



II.ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252010MK-R33NT	0.33±25%	1M/0.25V	5.50	4.80	4.05	3.50	33	39
ACDNR252010MK-R47NT	0.47±25%	1M/0.25V	5.20	4.40	3.70	3.20	38	45
ACDNR252010MK-R68NT	0.68±25%	1M/0.25V	3.60	3.20	3.20	2.75	49	59
ACDNR252010MK-1R0MT	1.0±20%	1M/0.25V	3.50	3.10	2.90	2.50	63	76
ACDNR252010MK-1R5MT	1.5±20%	1M/0.25V	3.00	2.60	2.30	2.00	88	106
ACDNR252010MK-2R2MT	2.2±20%	1M/0.25V	2.20	1.90	1.80	1.50	129	155
ACDNR252010MK-3R3MT	3.3±20%	1M/0.25V	1.80	1.60	1.40	1.20	196	235
ACDNR252010MK-4R7MT	4.7±20%	1M/0.25V	1.50	1.30	1.30	1.10	230	276
ACDNR252010MK-100MT	10±20%	1M/0.25V	1.00	0.90	0.90	0.80	435	500

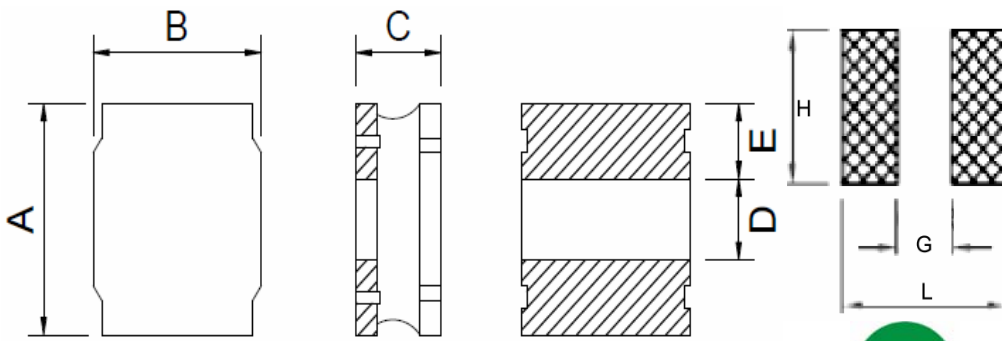
1 .SOLDER Lead-free process (focus)

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	2.5	±0.4
B	2.0	±0.4
C	1.25	Max.
D	0.8	±0.2
E	0.8	±0.2
L	2.6	Ref.
G	0.6	Ref.
H	2.2	Ref.



II.ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252012MK-R33NT	0.33±25%	1M/0.25V	6.20	5.30	4.30	3.70	23	28
ACDNR252012MK-R47NT	0.47±25%	1M/0.25V	5.60	4.90	4.00	3.45	29	35
ACDNR252012MK-R68NT	0.68±25%	1M/0.25V	4.30	3.70	3.60	3.15	36	43
ACDNR252012MK-1R0MT	1.0±20%	1M/0.25V	4.20	3.60	3.40	3.00	48	54
ACDNR252012MK-1R5MT	1.5±20%	1M/0.25V	3.50	2.90	2.80	2.40	80	104
ACDNR252012MK-2R2MT	2.2±20%	1M/0.25V	3.00	2.60	2.15	1.90	100	120
ACDNR252012MK-3R3MT	3.3±20%	1M/0.25V	2.10	1.70	2.05	1.80	136	163
ACDNR252012MK-4R7MT	4.7±20%	1M/0.25V	1.90	1.60	1.45	1.25	225	260
ACDNR252012MK-6R8MT	6.8±20%	1M/0.25V	1.35	1.15	1.10	0.95	305	366
ACDNR252012MK-100MT	10±20%	1M/0.25V	1.35	1.10	1.00	0.85	435	480
ACDNR252012MK-220MT	22±20%	1M/0.25V	0.70	0.59	0.60	0.48	1100	1430

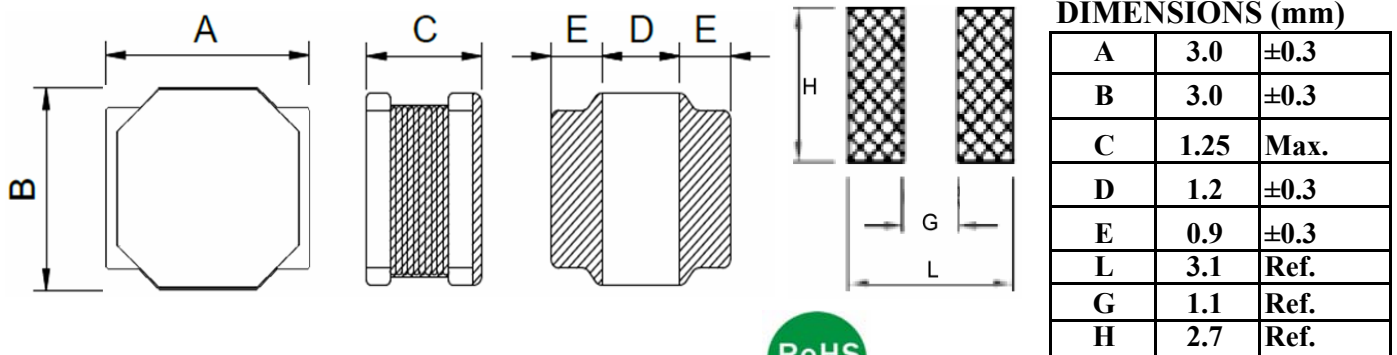
1 .SOLDER Lead-free process (focus)

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR3012MK-1R5MT	1.5	1M/0.25V	4.10	3.40	2.90	2.50	64	74
ACDNR3012MK-2R2MT	2.2	1M/0.25V	3.35	2.80	2.35	2.05	90	108
ACDNR3012MK-3R3MT	3.3	1M/0.25V	2.60	2.20	2.00	1.70	129	155
ACDNR3012MK-4R7MT	4.7	1M/0.25V	2.50	2.00	1.50	1.30	196	235
ACDNR3012MK-6R8MT	6.8	1M/0.25V	1.90	1.60	1.25	1.10	290	340
ACDNR3012MK-100MT	10	1M/0.25V	1.45	1.20	1.15	1.00	395	474

1 .SOLDER Lead-free process (focus)

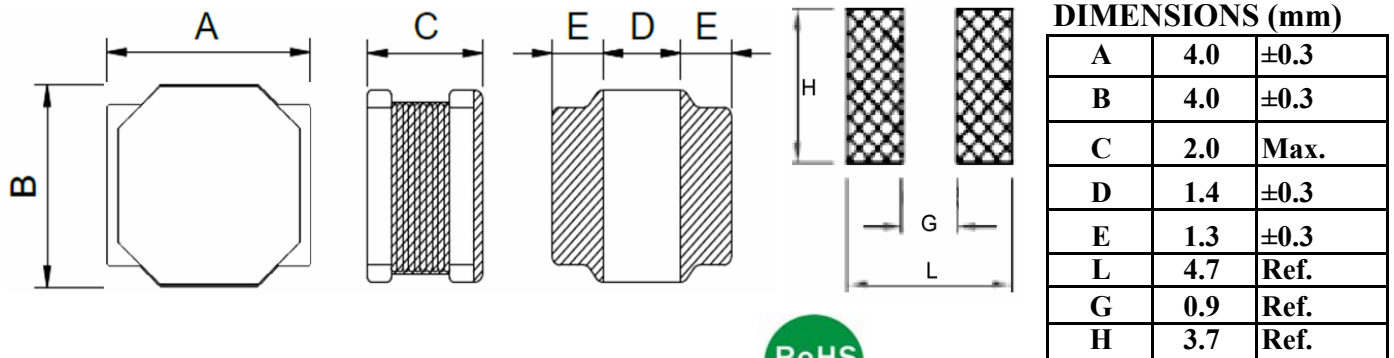
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR4020MK SERIES

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR4020MK-R22NT	0.22±25%	1M/0.25V	22.0	18.7	9.50	8.20	11	13
ACDNR4020MK-R47NT	0.47±25%	1M/0.25V	15.5	13.4	7.40	6.40	18	22
ACDNR4020MK-R68NT	0.68±25%	1M/0.25V	11.1	8.70	7.40	6.40	18	22
ACDNR4020MK-1R0MT	1.0±20%	1M/0.25V	11.1	8.70	6.70	5.80	22	26
ACDNR4020MK-1R5MT	1.5±20%	1M/0.25V	9.60	7.70	6.00	5.20	30	36
ACDNR4020MK-2R2MT	2.2±20%	1M/0.25V	7.60	6.10	5.00	4.30	40	48
ACDNR4020MK-3R3MT	3.3±20%	1M/0.25V	5.90	4.70	4.00	3.45	60	72
ACDNR4020MK-4R7MT	4.7±20%	1M/0.25V	4.90	4.00	3.30	2.85	90	108
ACDNR4020MK-6R8MT	6.8±20%	1M/0.25V	4.20	3.00	2.80	2.40	130	156
ACDNR4020MK-100MT	10±20%	1M/0.25V	3.50	2.80	2.35	2.00	180	216

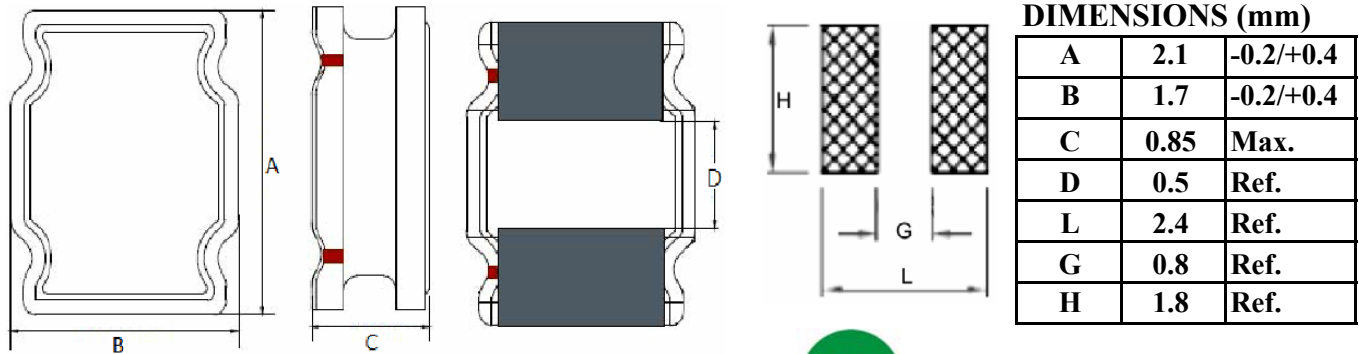
1 .SOLDER Lead-free process (focus)

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS

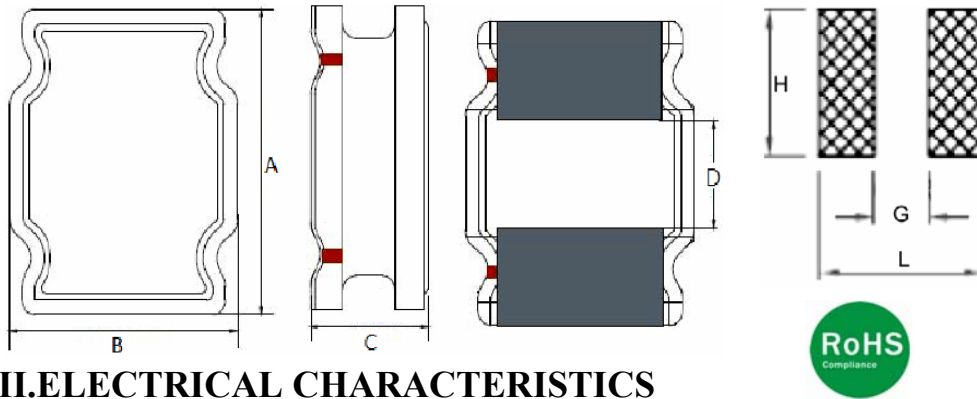
Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR201608MJ-1R0YT	1.0±30%	100KHz/1V	3.00	2.50	2.10	2.00	158	190
ACDNR201608MJ-2R2MT	2.2±20%	100KHz/1V	2.30	2.00	1.60	1.40	295	354
ACDNR201608MJ-4R7MT	4.7±20%	100KHz/1V	-	1.00	-	1.00	-	550

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	2.1	-0.2/+0.4
B	1.7	-0.2/+0.4
C	1.0	Max.
D	0.8	Ref.
R24/R33高度1.05mm Max.		
L	2.4	Ref.
G	0.8	Ref.
H	1.8	Ref.

II.ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40℃)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR201610MJ-R24YT	0.24±30%	1MHz/1V	6.80	5.90	4.20	3.70	26	32
ACDNR201610MJ-R33YT	0.33±30%	1MHz/1V	6.00	5.50	4.00	3.60	32	38
ACDNR201610MJ-R47YT	0.47±30%	1MHz/1V	5.20	4.30	3.60	3.20	35	44
ACDNR201610MJ-R68YT	0.68±30%	1MHz/1V	4.20	3.60	2.90	2.60	56	64
ACDNR201610MJ-1R0YT	1.0±30%	1MHz/1V	3.10	2.70	2.45	2.20	70	85
ACDNR201610MJ-1R5YT	1.5±30%	1MHz/1V	2.90	2.60	2.30	2.00	105	125
ACDNR201610MJ-2R2MT	2.2±20%	1MHz/1V	2.20	1.90	1.85	1.65	140	170
ACDNR201610MJ-3R3MT	3.3±20%	1MHz/1V	1.90	1.70	1.20	1.35	240	300
ACDNR201610MJ-4R7MT	4.7±20%	1MHz/1V	1.50	1.20	1.00	0.90	370	425
ACDNR201610MJ-6R8MT	6.8±20%	1MHz/1V	1.40	1.10	0.80	0.70	500	600
ACDNR201610MJ-100MT	10±20%	1MHz/1V	0.95	0.80	0.75	0.65	688	826

1 .CORE SIZE 2.16-1.74-0.9

2 .SOLDER Lead-free process (focus)

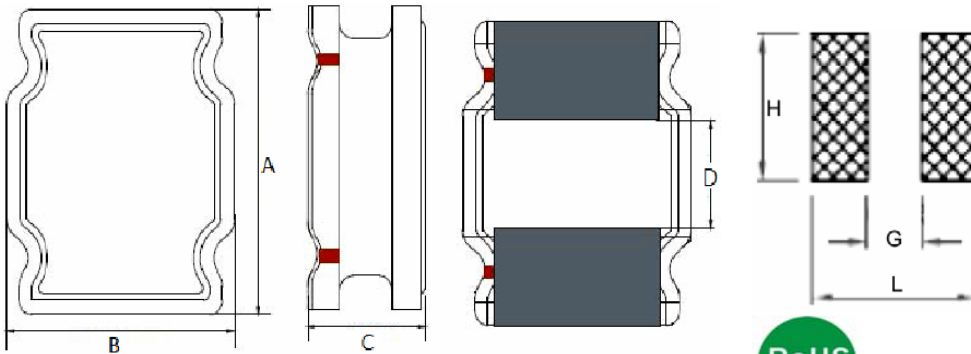
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

ACDNR252008MJ SERIES

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	2.5	-0.2/+0.4
B	2.0	-0.2/+0.4
C	0.8	Max.
D	0.8	Ref.
L	2.9	Ref.
G	0.8	Ref.
H	2.4	Ref.

II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		I _{rms} (A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252008MJ-2R2MT	2.2	1MHz/1V	2.40	2.20	1.50	1.40	215	255
ACDNR252008MJ-4R7MT	4.7	1MHz/1V	1.70	1.40	1.00	0.90	520	620
ACDNR252008MJ-6R8MT	6.8	1MHz/1V	1.20	1.00	0.65	0.55	635	760
ACDNR252008MJ-100MT	10	1MHz/1V	1.10	0.90	0.60	0.50	840	1000

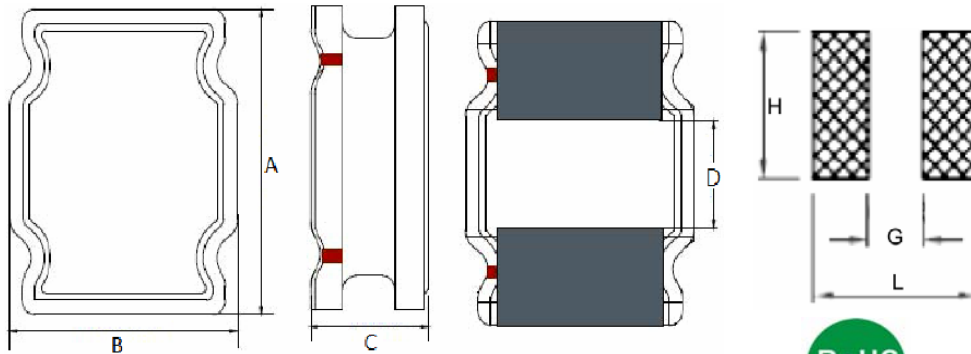
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR252010MJ SERIES

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	2.5	-0.2/+0.4
B	2.0	-0.2/+0.4
C	1.0	Max.
D	0.80	Ref.
R33高度1.0±0.1mm		
L	2.9	Ref.
G	0.8	Ref.
H	2.4	Ref.

II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252010MJ-R24YT	0.24±30%	1MHz/1V	7.20	6.70	4.70	4.00	24	32
ACDNR252010MJ-R33YT	0.33±30%	1MHz/1V	5.60	5.30	4.50	3.85	25	33
ACDNR252010MJ-R47YT	0.47±30%	1MHz/1V	5.50	4.90	3.80	3.20	38	45
ACDNR252010MJ-R68YT	0.68±30%	1MHz/1V	4.20	3.60	3.30	2.80	43	59
ACDNR252010MJ-1R0YT	1.0±30%	1MHz/1V	3.50	3.20	3.00	2.50	59	76
ACDNR252010MJ-1R5YT	1.5±30%	1MHz/1V	3.20	2.70	2.40	2.10	84	101
ACDNR252010MJ-2R2MT	2.2±20%	1MHz/1V	2.30	2.00	1.90	1.60	129	155
ACDNR252010MJ-3R3MT	3.3±20%	1MHz/1V	1.80	1.60	1.40	1.20	196	235
ACDNR252010MJ-4R7MT	4.7±20%	1MHz/1V	1.50	1.30	1.30	1.10	230	276
ACDNR252010MJ-6R8MT	6.8±20%	1MHz/1V	1.10	1.00	1.00	0.90	340	420
ACDNR252010MJ-100MT	10±20%	1MHz/1V	1.30	1.10	0.75	0.68	580	696

1 .CORE SIZE 2.65-2.15-0.91

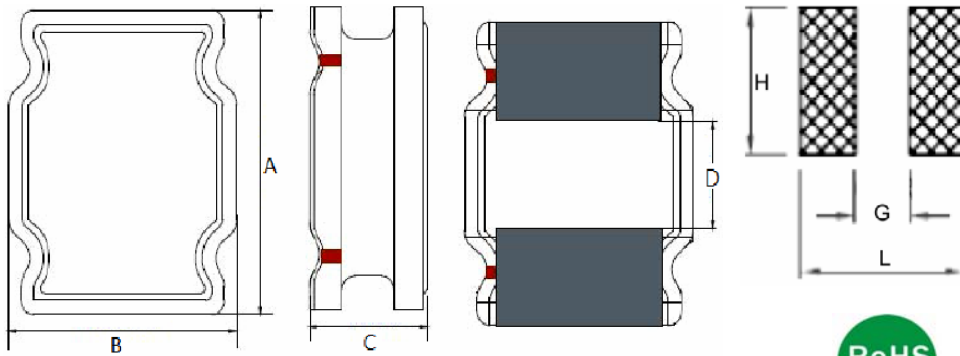
2 .SOLDER Lead-free process (focus)

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	2.5	-0.2/+0.4
B	2.0	-0.2/+0.4
C	1.2	Max.
D	0.8	Ref.
L	2.9	Ref.
G	0.8	Ref.
H	2.4	Ref.



II.ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR252012MJ-R24YT	0.24±30%	100KHz/1V	7.80	6.50	4.70	4.05	19	23
ACDNR252012MJ-R33YT	0.33±30%	100KHz/1V	6.20	5.30	4.30	3.70	23	28
ACDNR252012MJ-R47YT	0.47±30%	100KHz/1V	5.60	4.90	4.00	3.45	29	35
ACDNR252012MJ-R68YT	0.68±30%	100KHz/1V	4.30	3.70	3.60	3.15	36	43
ACDNR252012MJ-1R0YT	1.0±30%	100KHz/1V	4.20	3.60	3.40	3.00	48	54
ACDNR252012MJ-1R5YT	1.5±30%	100KHz/1V	3.50	2.90	2.80	2.40	60	72
ACDNR252012MJ-2R2MT	2.2±20%	100KHz/1V	3.00	2.60	2.15	1.90	100	120
ACDNR252012MJ-3R3MT	3.3±20%	100KHz/1V	2.10	1.70	2.05	1.80	136	163
ACDNR252012MJ-4R7MT	4.7±20%	100KHz/1V	1.90	1.60	1.45	1.25	225	260
ACDNR252012MJ-6R8MT	6.8±20%	100KHz/1V	1.35	1.15	1.10	0.95	305	366
ACDNR252012MJ-100MT	10±20%	100KHz/1V	1.35	1.10	1.00	0.85	450	500

1 .CORE SIZE 2.65-2.15-1.1

2 .SOLDER Lead-free process (focus)

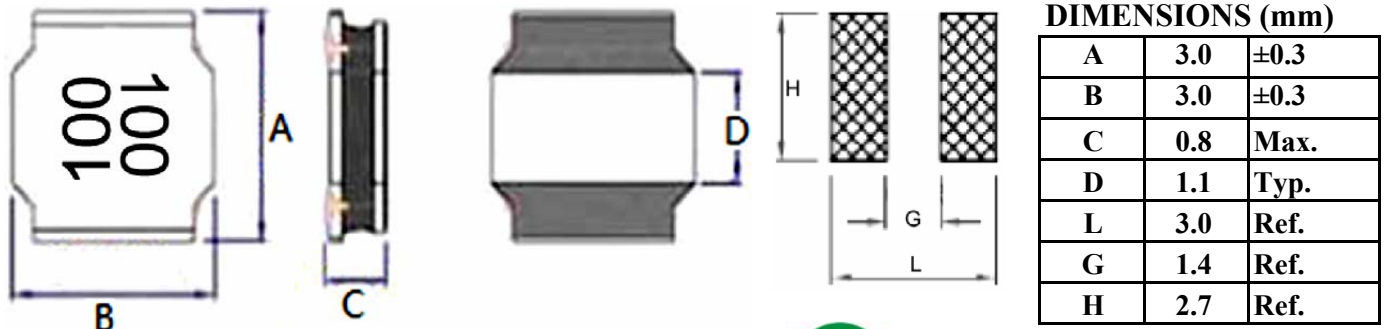
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR3008MJ SERIES

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR3008MJ-2R2MT	2.2	1MHz/1V	2.50	2.40	1.60	1.50	170	204
ACDNR3008MJ-4R7MT	4.7	1MHz/1V	1.90	1.70	1.20	1.10	333	400
ACDNR3008MJ-6R8MT	6.8	1MHz/1V	1.60	1.40	1.00	0.90	525	630
ACDNR3008MJ-100MT	10	1MHz/1V	1.50	1.30	0.90	0.80	816	980

1 .CORE SIZE 3.1-3.1-0.72

2 .SOLDER Lead-free process (focus)

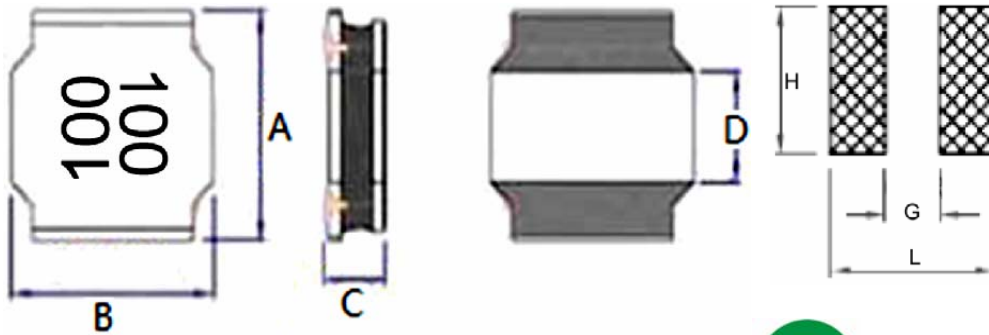
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR3010MJ SERIES

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	3.0	±0.3
B	3.0	±0.3
C	1.0	Max.
D	1.1	Ref.
L	3.0	Ref.
G	1.4	Ref.
H	2.7	Ref.

II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR3010MJ-2R2MT	2.2	1MHz/1V	3.90	3.40	2.50	2.20	120	144
ACDNR3010MJ-4R7MT	4.7	1MHz/1V	2.40	2.10	1.50	1.30	220	265
ACDNR3010MJ-6R8MT	6.8	1MHz/1V	2.10	1.80	1.35	1.15	320	384
ACDNR3010MJ-100MT	10	1MHz/1V	1.60	1.30	1.10	0.95	450	540

1 .CORE SIZE 3.1-3.1-0.92

2 .SOLDER Lead-free process (focus)

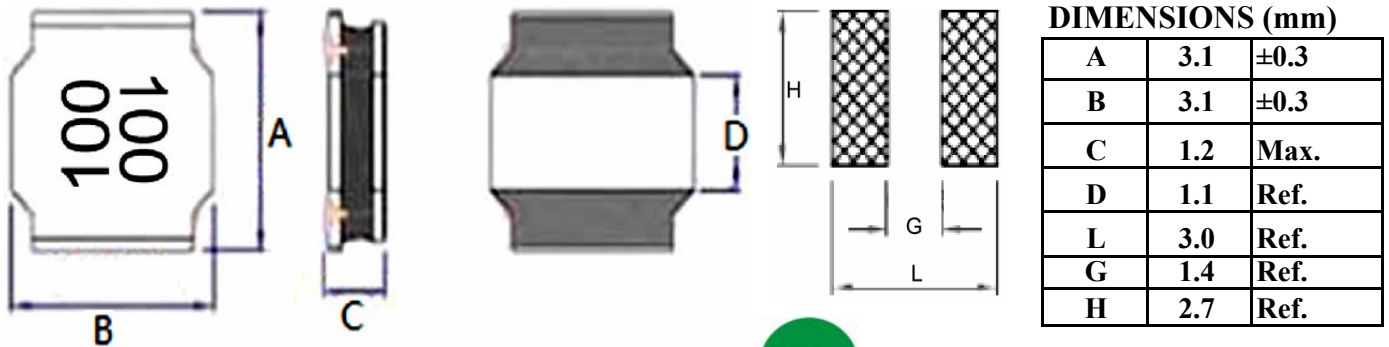
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR3012MJ SERIES

I.MECHANICAL DIMENSION



II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH) ±20%	Freq. (Hz)	Isat(A) ※1(30%)	Irms(A) ※2(ΔT=40°C)	DCR (mΩ)
			Max.	Max.	Max.
ACDNR3012MJ-100MT	10	100K/1V	1.2	1.0	474

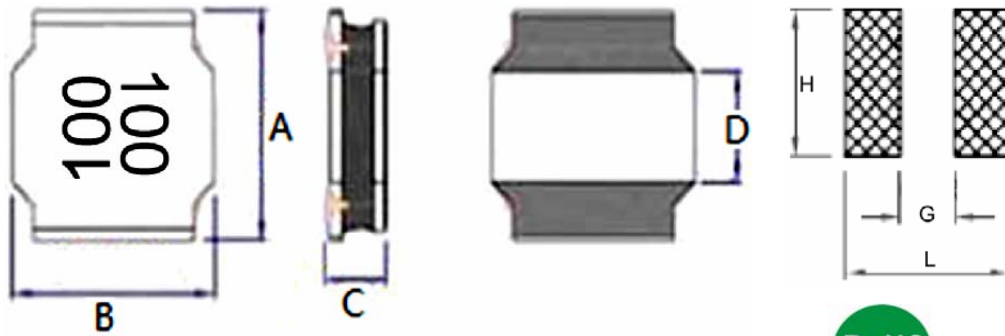
- 1 .CORE SIZE 3.1-3.1-1.1
- 2 .SOLDER Lead-free process (focus)

REMARK :

- ※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)
- ※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR4010MJ SERIES

I. MECHANICAL DIMENSION



DIMENSIONS (mm)

A	4.1	±0.3
B	4.1	±0.3
C	1.0	Max.
D	1.8	±0.2
R24~2R2 高度1.05mm Max.		
L	4.0	Ref.
G	1.6	Ref.
H	3.7	Ref.



II. ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR4010MJ-R24YT	0.24±30%	1MHz/1V	9.50	8.00	5.20	4.70	23	29
ACDNR4010MJ-R33YT	0.33±30%	1MHz/1V	8.40	7.50	4.20	3.60	30	40
ACDNR4010MJ-R47YT	0.47±30%	1MHz/1V	5.50	4.70	4.00	3.50	30	40
ACDNR4010MJ-R68YT	0.68±30%	1MHz/1V	5.30	4.20	4.00	3.30	38	48
ACDNR4010MJ-1R0YT	1.0±30%	1MHz/1V	4.00	3.50	3.20	2.90	45	56
ACDNR4010MJ-1R5YT	1.5±30%	1MHz/1V	3.80	3.30	3.00	2.60	64	80
ACDNR4010MJ-2R2MT	2.2±20%	1MHz/1V	3.00	2.20	2.90	2.20	75	90
ACDNR4010MJ-3R3MT	3.3±20%	1MHz/1V	2.80	2.10	2.10	1.80	110	143
ACDNR4010MJ-4R7MT	4.7±20%	1MHz/1V	2.10	1.60	2.00	1.60	150	192
ACDNR4010MJ-6R8MT	6.8±20%	1MHz/1V	1.90	1.50	1.60	1.30	220	280
ACDNR4010MJ-100MT	10±20%	1MHz/1V	1.30	1.00	1.40	1.00	280	348
ACDNR4010MJ-150MT	15±20%	1MHz/1V	1.00	0.80	1.20	0.80	420	528
ACDNR4010MJ-220MT	22±20%	1MHz/1V	0.90	0.70	0.95	0.70	660	804

1 .CORE SIZE 4.1-4.1-0.92

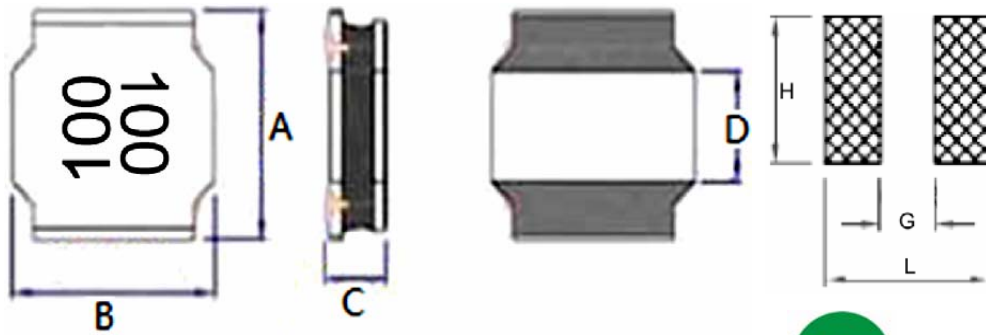
2 .SOLDER Lead-free process (focus)

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	4.1	±0.3
B	4.1	±0.3
C	1.2	Max.
D	1.8	±0.2
R47~4R7高度1.25mm Max.		
L	4.0	Ref.
G	1.6	Ref.
H	3.7	Ref.



II.ELECTRICAL CHARACTERISTICS

Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)		Irms(A) ※2(ΔT=40°C)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
ACDNR4012MJ-R47YT	0.47±30%	1MHz/1V	7.50	6.00	3.70	3.00	36	43
ACDNR4012MJ-R68YT	0.68±30%	1MHz/1V	6.90	5.00	3.50	2.80	46	60
ACDNR4012MJ-1R0YT	1.0±30%	1MHz/1V	5.40	4.50	3.30	2.70	51	65
ACDNR4012MJ-1R5YT	1.5±30%	1MHz/1V	4.00	3.00	3.00	2.60	64	86
ACDNR4012MJ-2R2MT	2.2±20%	1MHz/1V	3.20	2.50	2.80	2.40	90	110
ACDNR4012MJ-3R3MT	3.3±20%	1MHz/1V	2.90	2.40	2.60	2.20	120	150
ACDNR4012MJ-4R7MT	4.7±20%	1MHz/1V	2.60	2.10	2.30	1.70	135	195
ACDNR4012MJ-6R8MT	6.8±20%	1MHz/1V	2.00	1.60	1.80	1.50	185	230
ACDNR4012MJ-100MT	10±20%	1MHz/1V	1.80	1.30	1.60	1.10	250	310
ACDNR4012MJ-150MT	15±20%	1MHz/1V	1.50	1.10	1.25	0.90	400	500
ACDNR4012MJ-220MT	22±20%	1MHz/1V	1.20	0.80	1.10	0.70	530	680

1 .CORE SIZE 4.1-4.1-1.1

2 .SOLDER Lead-free process (focus)

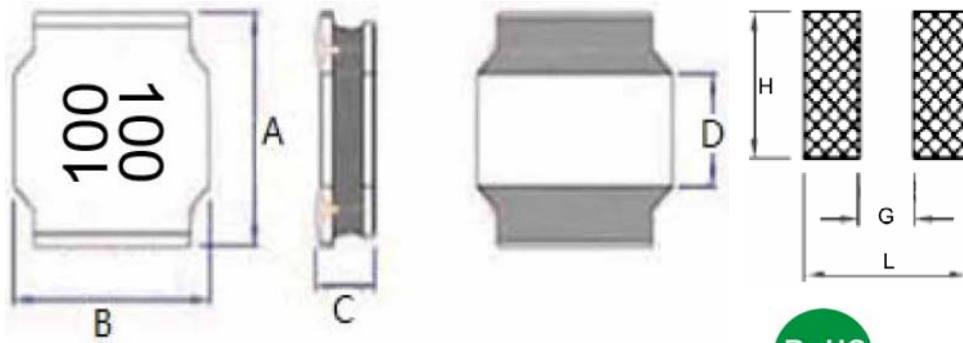
REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

ACDNR5020MJ SERIES

I.MECHANICAL DIMENSION



DIMENSIONS (mm)

A	5.0	±0.3
B	5.0	±0.3
C	2.3	Max.
D	2.2	Ref.
L	5.2	Ref.
G	2.4	Ref.
H	4.7	Ref.

II.ELECTRICAL CHARACTERISTICS



Parts Number	Inductance (uH)	Freq. (Hz)	Isat(A) ※1(30%)	Irms(A) ※2(ΔT=40°C)	DCR (mΩ)
			Max.	Max.	Max.
ACDNR5020MJ-6R8MT	6.8±20%	100K/1V	3.0	1.6	210

1 .CORE SIZE 4.95-4.95-2.0

2 .SOLDER Lead-free process (focus)

REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)