

SMD Power Inductor

CDRH127MN



Description

- Ferrite drum core construction
- Magnetically shielded
- L×W×H: 12.3×12.3 ×8.0 mm Max.
- Product weight: 3.6g(Ref.)
- Moisture Sensitivity Level: 1

Environmental Data

- Operating Temperature: -40°C to +105°C (including self-heating)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak

Packaging

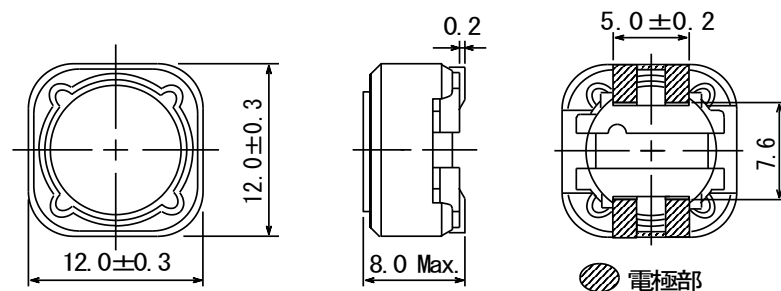
- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

Applications

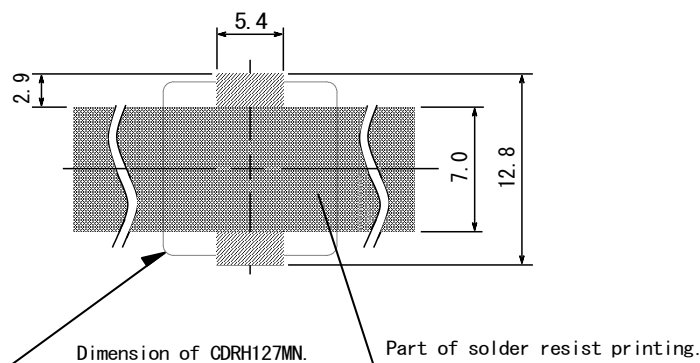
- Ideally used in notebook PC, LCD TV, DVD, game machine, STB, projector, etc. as DC-DC converter inductors



Dimension - [mm]

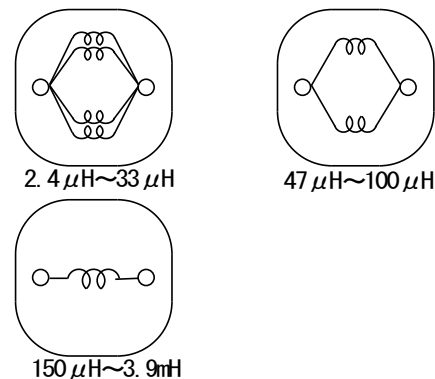


Recommended Land pattern - [mm]



No vias and traces in the restricted area underneath the coil

Wire Connection



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Electrical Characteristics

Part Number	Stamp	Inductance [Within] ※1	D.C.R. (Ω) (at 20°C) Max.(Typ.)	Saturation Current (A) ※2 (Typ)		Temperature Rise Current (A) ※3
				at 20°C Max.(Typ.)	at 105°C Max.(Typ.)	
CDRH127MNNP-2R4NC	2R4	2.4μH±30%	8.4m(6.7m)	14.80(19.00)	12.8(16.00)	8.50
CDRH127MNNP-3R3NC	3R3	3.3μH±30%	9.9m(7.9m)	12.80(16.50)	10.8(13.60)	8.00
CDRH127MNNP-4R4NC	4R4	4.4μH±30%	11.4m(9.1m)	10.80(13.50)	9.40(11.80)	7.50
CDRH127MNNP-5R6NC	5R6	5.6μH±30%	12.9m(10.3m)	9.80(12.50)	8.40(10.50)	7.00
CDRH127MNNP-6R8NC	6R8	6.8μH±30%	14.5m(11.6m)	8.80(11.00)	7.60(9.50)	6.60
CDRH127MNNP-100MC	100	10μH±20%	17.6m(14.1m)	8.00(10.00)	6.40(8.00)	6.30
CDRH127MNNP-150MC	150	15μH±20%	28.8m(23.0m)	6.20(7.70)	5.20(6.50)	4.85
CDRH127MNNP-220MC	220	22μH±20%	49.5m(39.6m)	5.00(6.30)	4.30(5.40)	3.60
CDRH127MNNP-330MC	330	33μH±20%	61.3m(49.0m)	4.20(5.30)	3.40(4.30)	3.10
CDRH127MNNP-470MC	470	47μH±20%	86.9m(69.5m)	3.40(4.30)	2.85(3.60)	2.70
CDRH127MNNP-680MC	680	68μH±20%	0.129(0.103)	2.70(3.40)	2.20(2.80)	2.20
CDRH127MNNP-101MC	101	100μH±20%	0.202(0.162)	2.30(2.90)	1.95(2.45)	1.80
CDRH127MNNP-151MC	151	150μH±20%	0.260(0.208)	1.90(2.40)	1.60(2.00)	1.60
CDRH127MNNP-221MC	221	220μH±20%	0.331(0.265)	1.60(2.00)	1.40(1.75)	1.50
CDRH127MNNP-271MC	271	270μH±20%	0.355(0.284)	1.50(1.85)	1.20(1.50)	1.45
CDRH127MNNP-331MC	331	330μH±20%	0.525(0.420)	1.30(1.60)	1.05(1.35)	1.10
CDRH127MNNP-471MC	471	470μH±20%	0.730(0.584)	1.10(1.35)	0.92(1.15)	0.95
CDRH127MNNP-681MC	681	680μH±20%	1.09(0.87)	0.85(1.10)	0.74(0.92)	0.80
CDRH127MNNP-102MC	102	1.0mH±20%	1.41(1.13)	0.72(0.90)	0.62(0.77)	0.70
CDRH127MNNP-122MC	122	1.2mH±20%	1.85(1.48)	0.68(0.85)	0.56(0.70)	0.57
CDRH127MNNP-152MC	152	1.5mH±20%	2.12(1.70)	0.60(0.75)	0.49(0.61)	0.55
CDRH127MNNP-182MC	182	1.8mH±20%	2.79(2.23)	0.54(0.68)	0.46(0.57)	0.48
CDRH127MNNP-222MC	222	2.2mH±20%	3.13(2.50)	0.48(0.60)	0.40(0.50)	0.45

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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Recommended Type

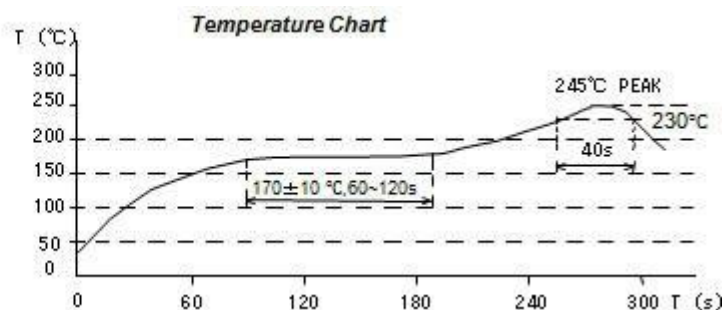
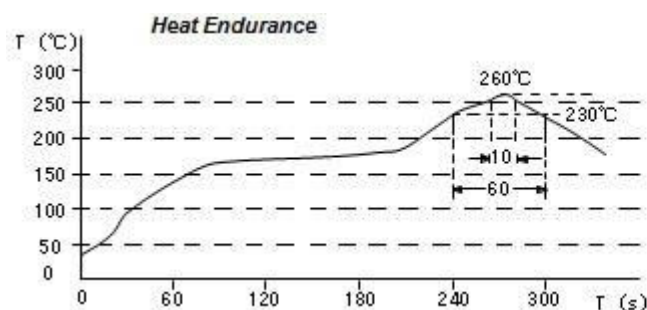
CDRH127MNNP-272MC	272	2.7mH $\pm$ 20%	4.25(3.40)	0.44(0.55)	0.37(0.46)	0.38
CDRH127MNNP-332MC	332	3.3mH $\pm$ 20%	4.88(3.90)	0.42(0.52)	0.34(0.43)	0.35
CDRH127MNNP-392MC	392	3.9mH $\pm$ 20%	5.28(4.22)	0.38(0.48)	0.30(0.38)	0.32

※1. Inductance measuring condition: 2.4 μ H ~ 680 μ H at 100kHz; 1.0mH ~ 3.9mH at 1kHz.

※2. Saturation current: This indicates the actual value of D.C. current when the inductance becomes 25% lower than its initial value.

※3. The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a = 20^{\circ}\text{C}$).

Solder Reflow Condition



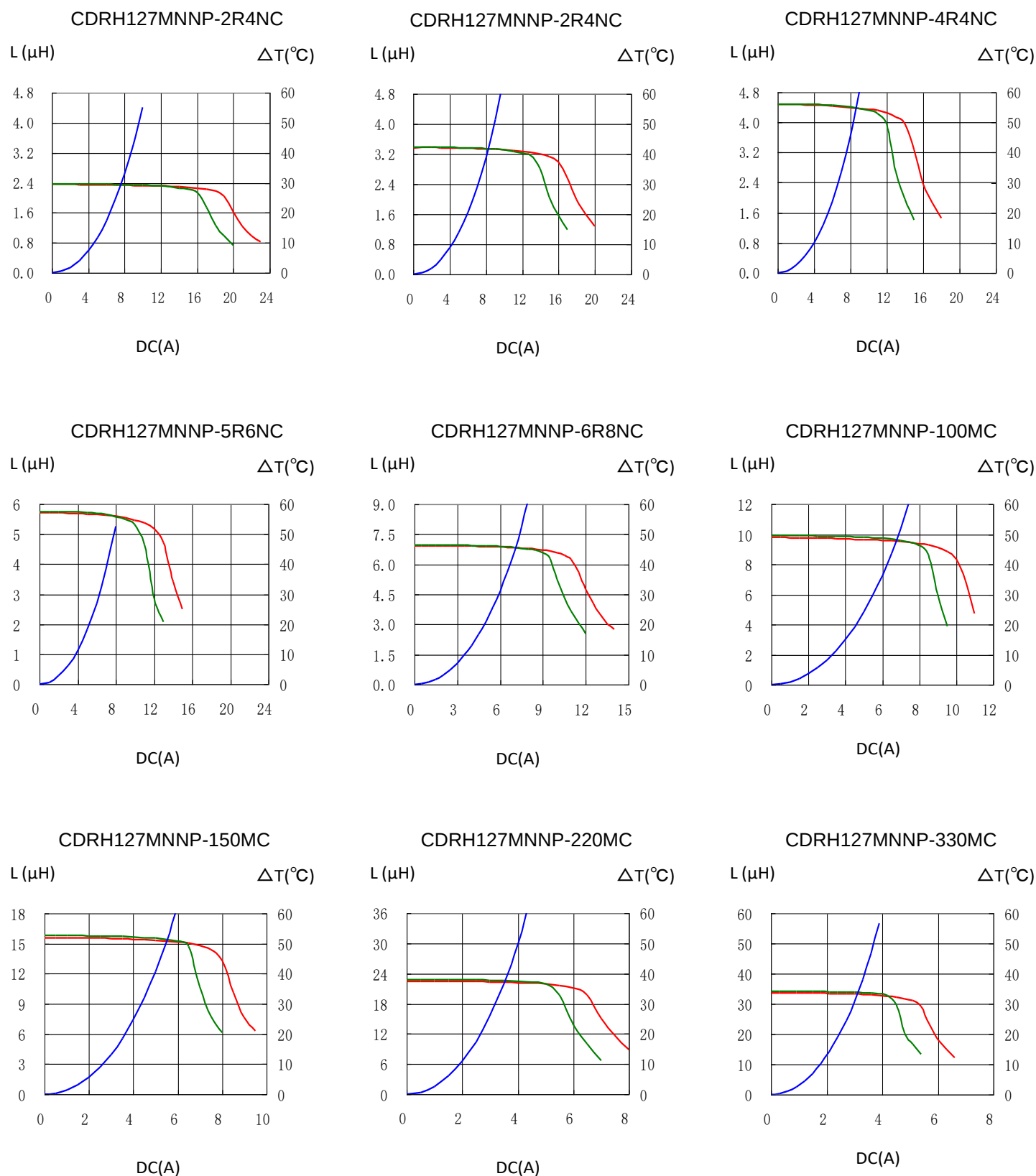
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Saturation Current & Temperature Rise Graph

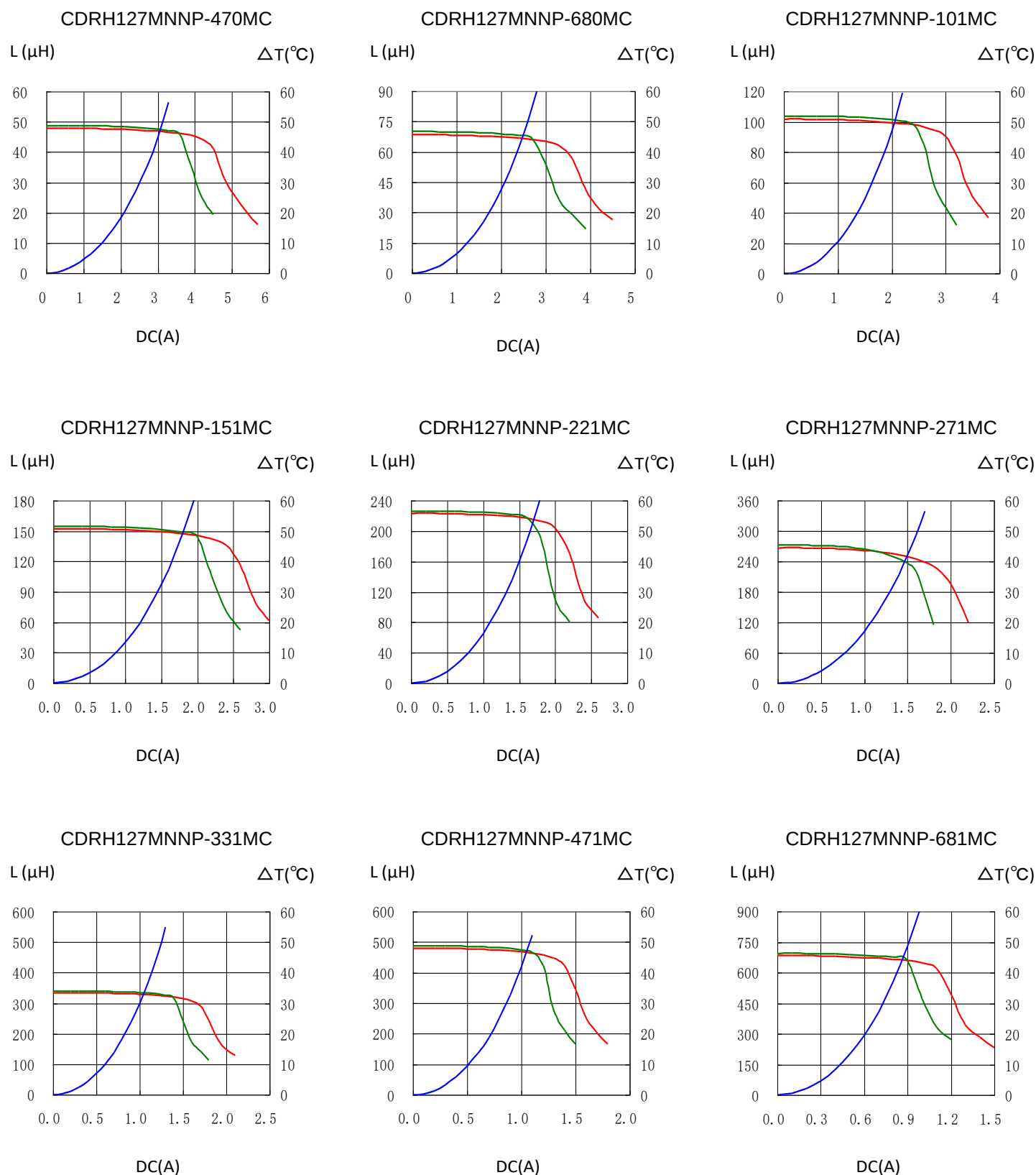
— L (20°C) — L (105°C) — ΔT



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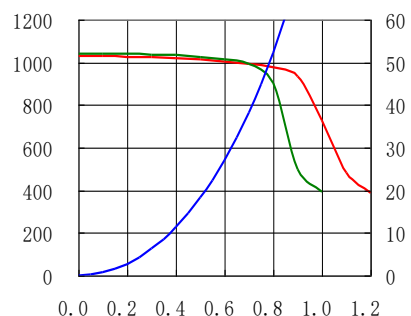
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Recommended Type

CDRH127MNNP-102MC

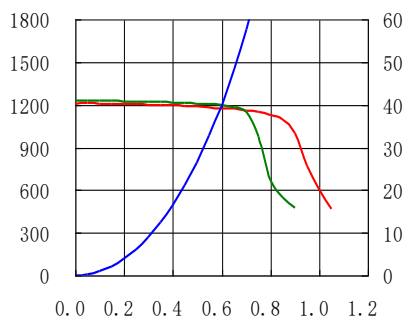
L (μH) ΔT(°C)



DC(A)

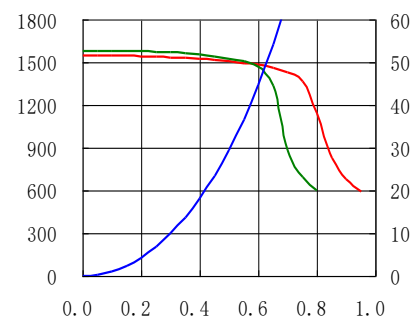
CDRH127MNNP-122MC

L (μH) ΔT(°C)



DC(A)

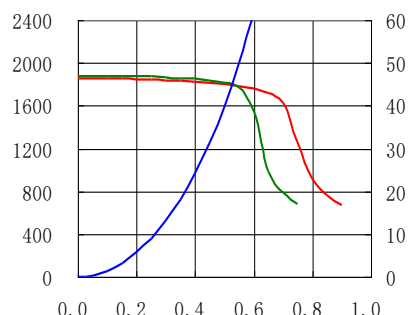
L (μH) ΔT(°C)



DC(A)

CDRH127MNNP-182MC

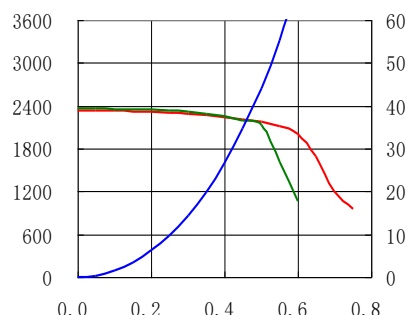
L (μH) ΔT(°C)



DC(A)

CDRH127MNNP-222MC

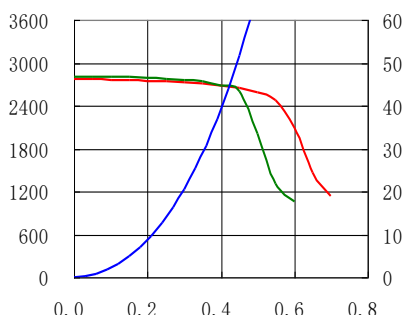
L (μH) ΔT(°C)



DC(A)

CDRH127MNNP-272MC

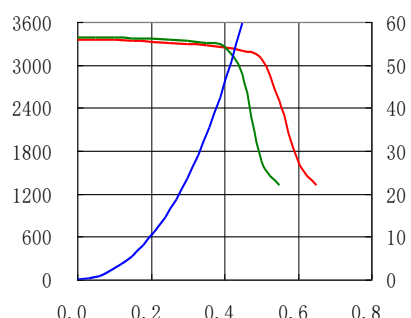
L (μH) ΔT(°C)



DC(A)

CDRH127MNNP-332MC

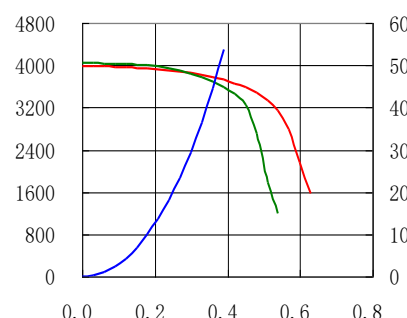
L (μH) ΔT(°C)



DC(A)

CDRH127MNNP-392MC

L (μH) ΔT(°C)



DC(A)



For sales office information, please [click here](#) to visit our website.