

# SMD Power Inductor

## CDRH125



### Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 12.3x12.3x6.0 mm Max.
- Product weight: 2.9g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance



### Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self-temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak

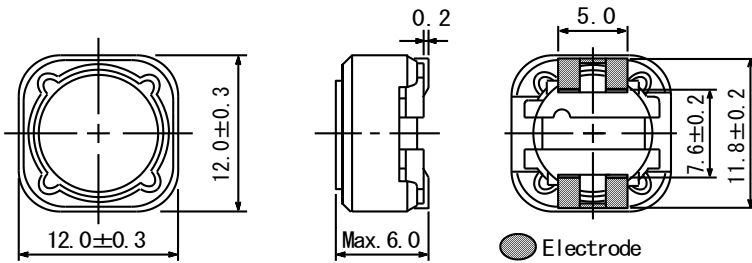
### Packaging

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

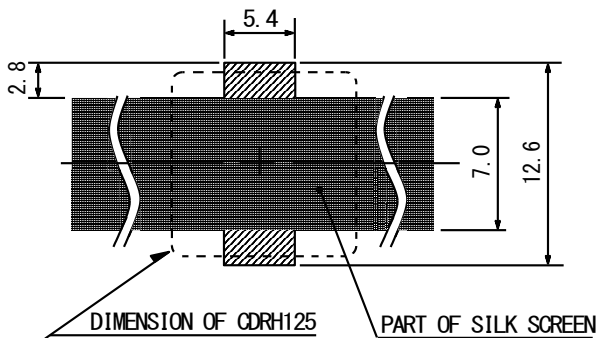
### Applications

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

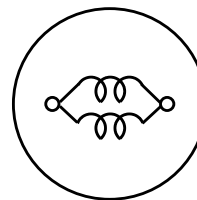
### Dimension - [mm]



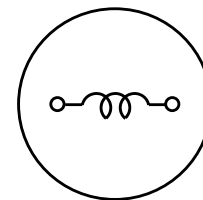
### Recommended Land pattern - [mm]



### Wire Connection



1.3µH ~ 47µH



56µH ~ 1mH

No vias and traces in the restricted area underneath the coil

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## Electrical Characteristics

Part Number	Stamp	Inductance [Within] ※1	D.C.R. (mΩ) (at 20°C) Max. (Typ.)	Saturation Current (A) ※2 Max. (Typ.)	Temperature Rise Current (A) ※3
CDRH125NP-100MC	100	10μH±20%	25m(19m)	5.48(6.85)	5.60
CDRH125NP-120MC	120	12μH±20%	27m(21m)	4.88(6.10)	5.20
CDRH125NP-150MC	150	15μH±20%	30m(23m)	4.48(5.60)	5.00
CDRH125NP-180MC	180	18μH±20%	34m(26m)	4.24(5.30)	4.50
CDRH125NP-220MC	220	22μH±20%	36m(28m)	3.84(4.80)	4.25
CDRH125NP-270MC	270	27μH±20%	51m(39m)	3.40(4.25)	3.50
CDRH125NP-330MC	330	33μH±20%	57m(44m)	3.08(3.85)	2.95
CDRH125NP-390MC	390	39μH±20%	68m(52m)	2.80(3.50)	2.90
CDRH125NP-470MC	470	47μH±20%	75m(58m)	2.44(3.05)	2.80
CDRH125NP-560MC	560	56μH±20%	0.11(84m)	2.34(2.92)	2.70
CDRH125NP-680MC	680	68μH±20%	0.12(93m)	2.16(2.70)	2.55
CDRH125NP-820MC	820	82μH±20%	0.14(0.11)	1.80(2.25)	2.50
CDRH125NP-101MC	101	100μH±20%	0.16(0.12)	1.72(2.15)	2.28
CDRH125NP-121MC	121	120μH±20%	0.17(0.13)	1.49(1.86)	2.05
CDRH125NP-151MC	151	150μH±20%	0.23(0.18)	1.36(1.70)	1.80
CDRH125NP-181MC	181	180μH±20%	0.29(0.22)	1.30(1.62)	1.75
CDRH125NP-221MC	221	220μH±20%	0.40(0.31)	1.16(1.45)	1.56
CDRH125NP-271MC	271	270μH±20%	0.46(0.35)	1.06(1.32)	1.38
CDRH125NP-331MC	331	330μH±20%	0.51(0.39)	0.96(1.20)	1.25
CDRH125NP-391MC	391	390μH±20%	0.69(0.53)	0.86(1.08)	1.20
CDRH125NP-471MC	471	470μH±20%	0.77(0.59)	0.76(0.95)	1.05
CDRH125NP-561MC	561	560μH±20%	0.86(0.66)	0.70(0.88)	0.90
CDRH125NP-681MC	681	680μH±20%	1.20(0.92)	0.66(0.82)	0.80
CDRH125NP-821MC	821	820μH±20%	1.34(1.03)	0.59(0.74)	0.72
CDRH125NP-102MC	102	1.0mH±20%	1.53(1.18)	0.52(0.65)	0.66

※1. Measured frequency at 1 kHz.

※2. Saturation current: This indicates the value of D.C. current when the inductance becomes 25% lower than its initial value. (Ta=20°C).

※3. Temperature rise current: The actual value of D.C. current when the temperature of coil becomes ΔT=40°C (Ta=20°C).

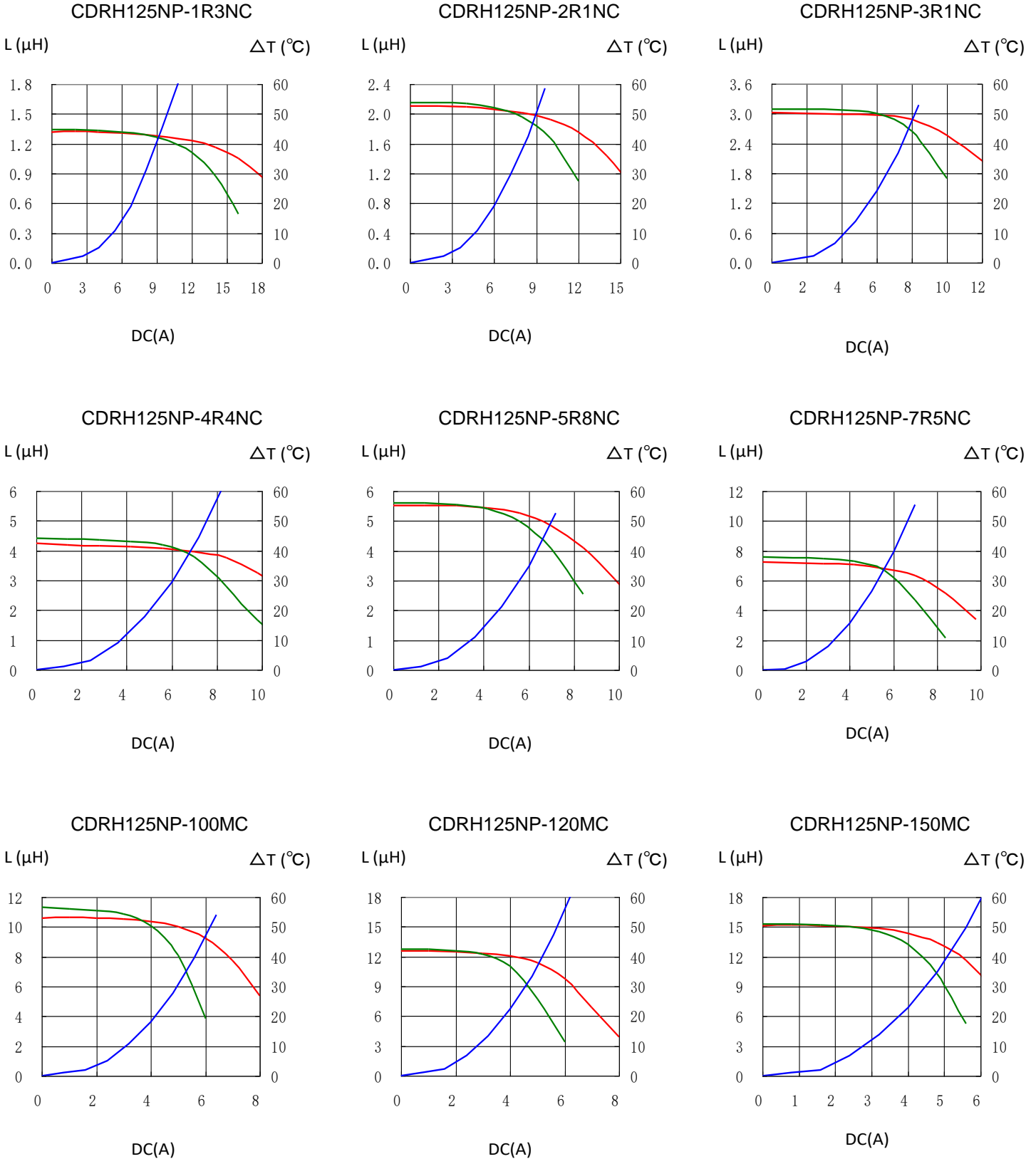
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### Saturation Current & Temperature Rise Graph

— L (20°C)    — L (100°C)    —  $\Delta T$



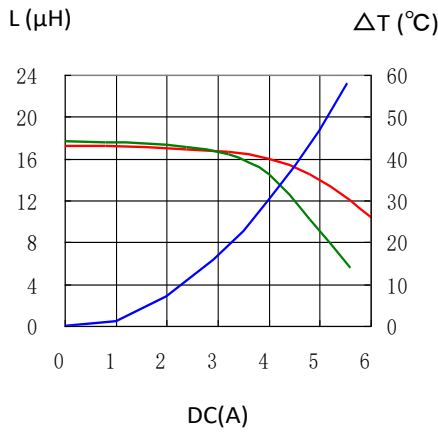
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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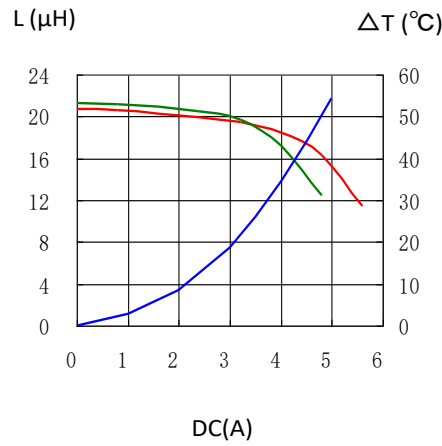
## CDRH125



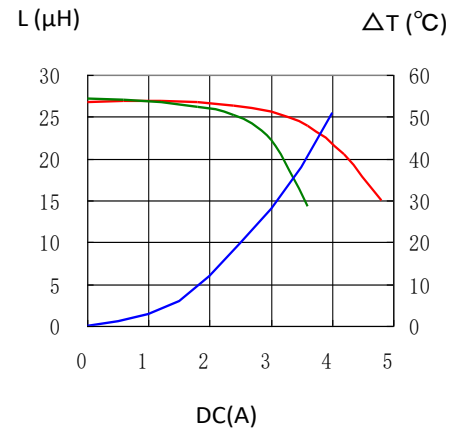
CDRH125NP-180MC



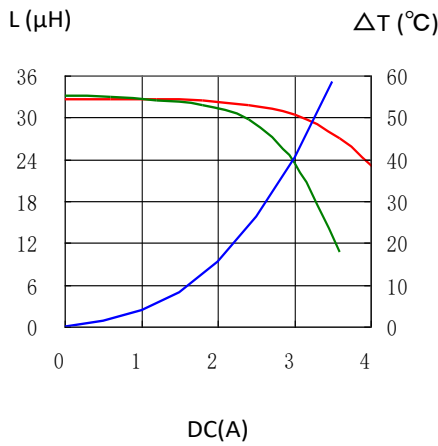
CDRH125NP-220MC



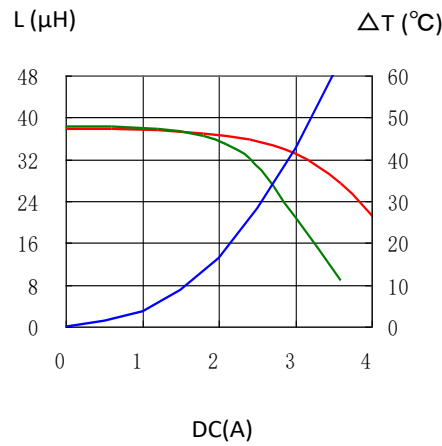
CDRH125NP-270MC



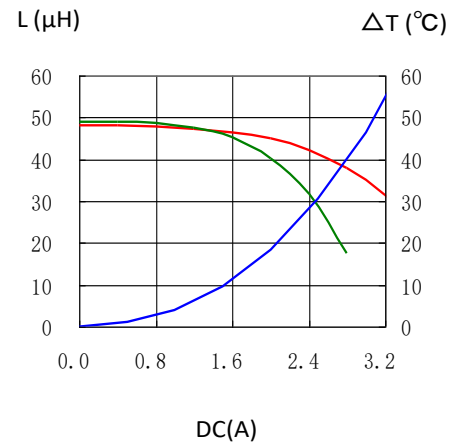
CDRH125NP-330MC



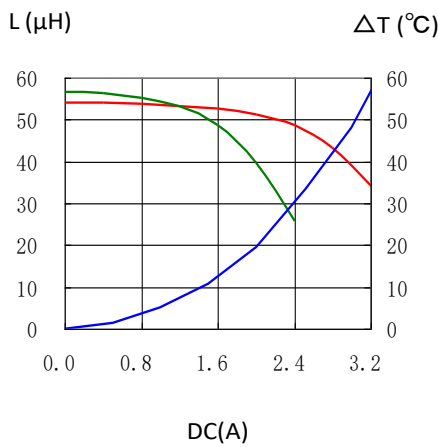
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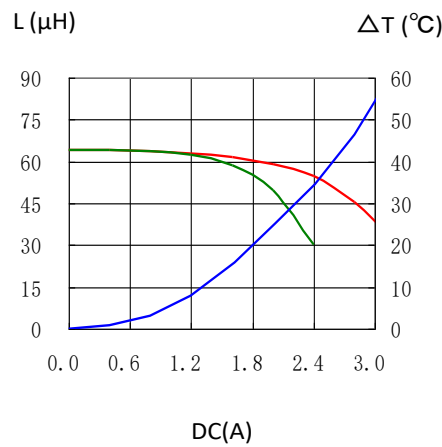
CDRH125NP-470MC



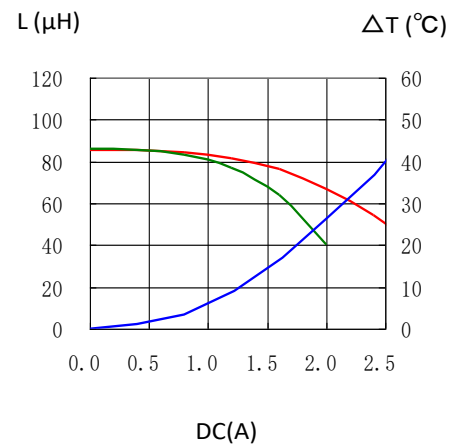
CDRH125NP-560MC



CDRH125NP-680MC



CDRH125NP-820MC

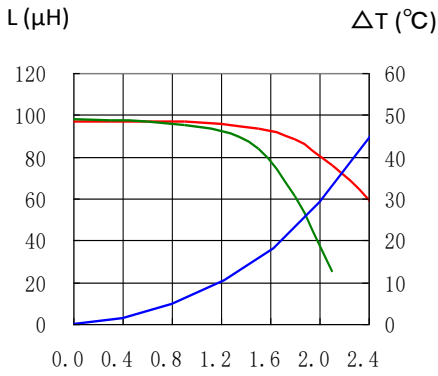


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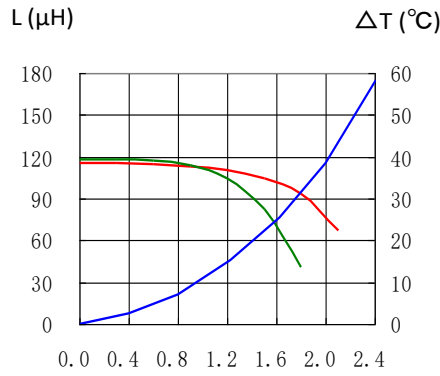


CDRH125NP-101MC



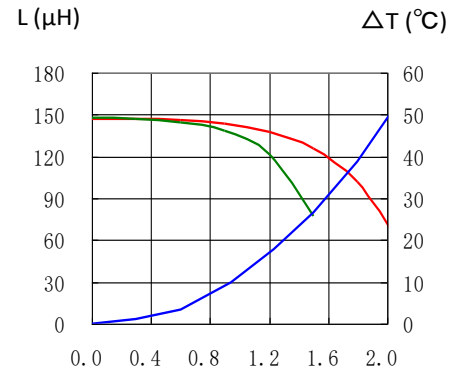
DC(A)

CDRH125NP-121MC



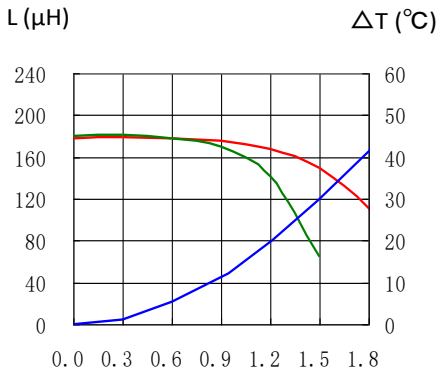
DC(A)

CDRH125NP-151MC



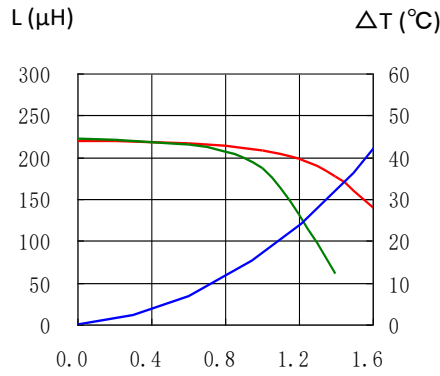
DC(A)

CDRH125NP-181MC



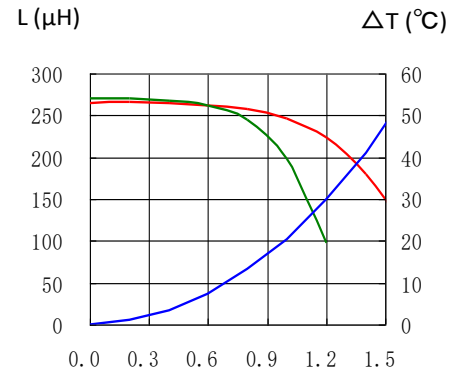
DC(A)

CDRH125NP-221MC



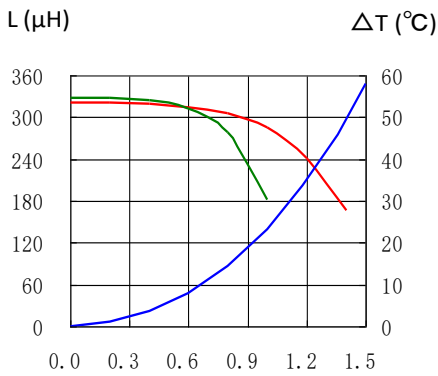
DC(A)

CDRH125NP-271MC



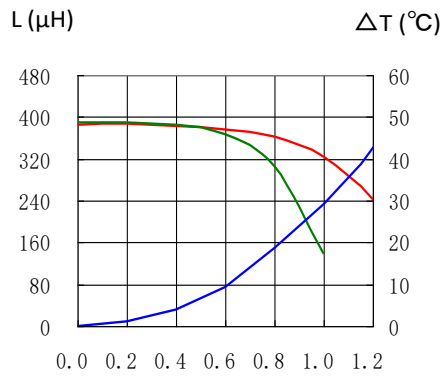
DC(A)

CDRH125NP-331MC



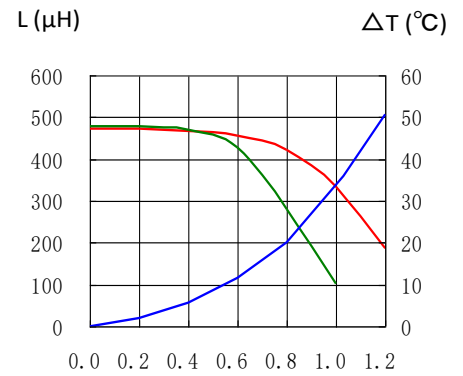
DC(A)

CDRH125NP-391MC



DC(A)

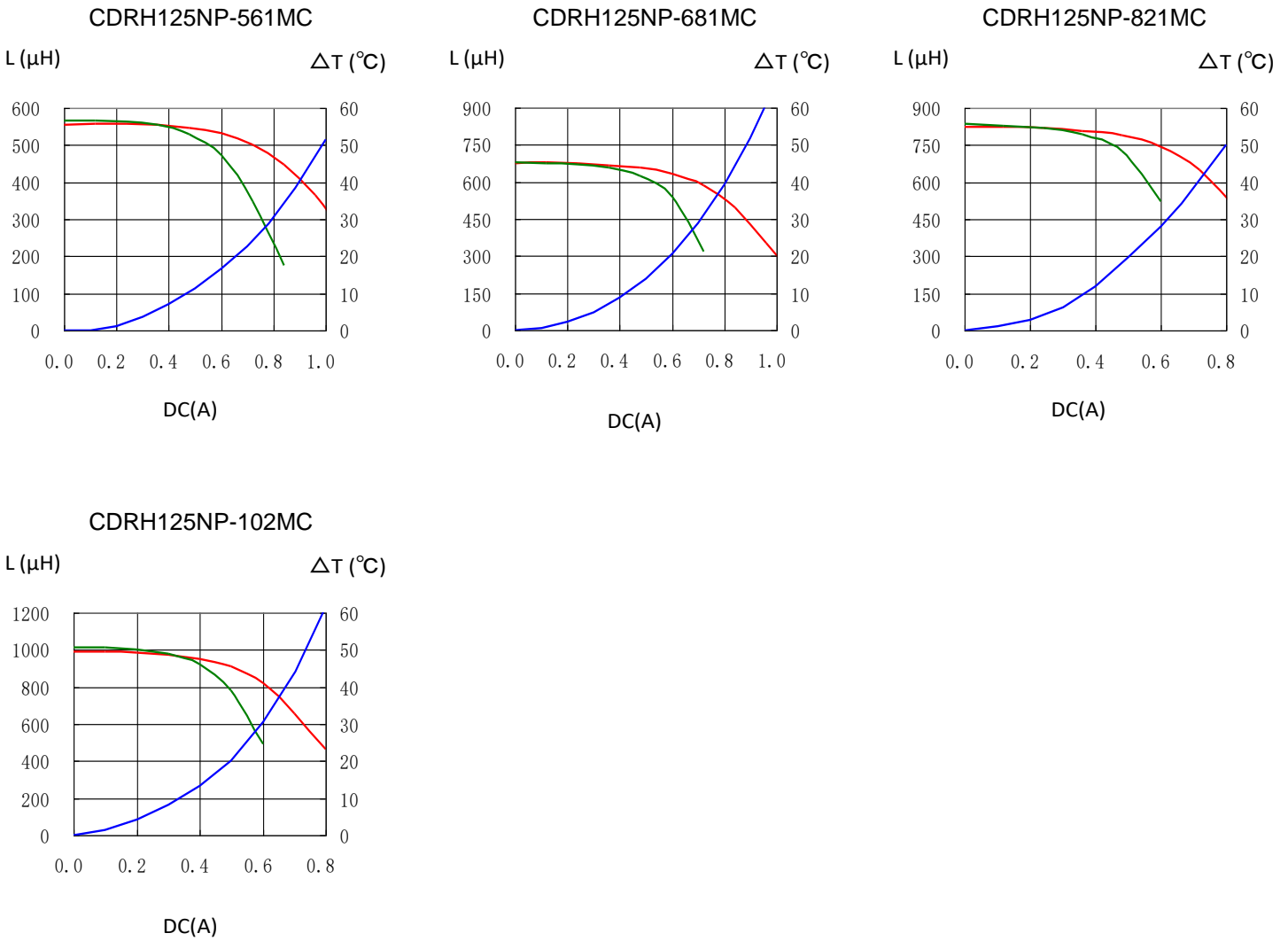
CDRH125NP-471MC



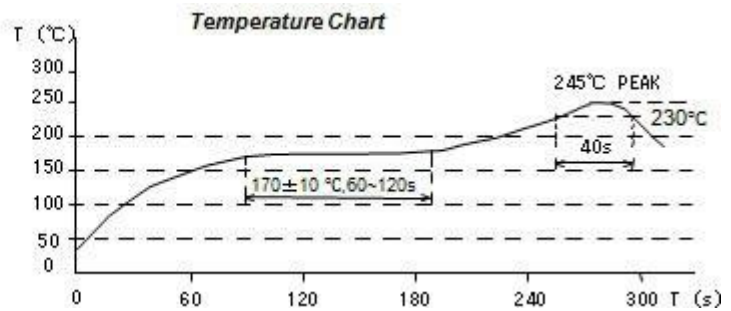
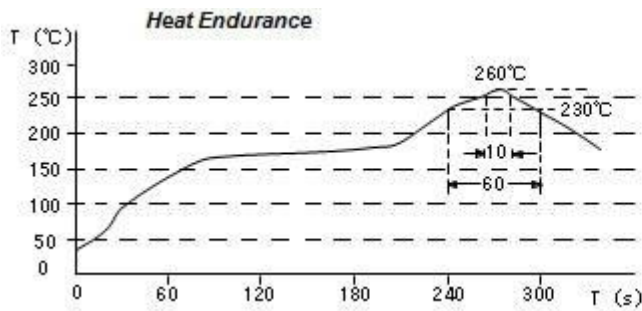
DC(A)

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### Solder Reflow Condition



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