SMD Power Inductor

CDRH125/LD

Recommended Type

Description

- Ferrite drum core construction
- Magnetically shielded
- L×W×H: 12.3×12.3×6.0 mm Max.
- Product weight: 2.9g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance



Environmental Data

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

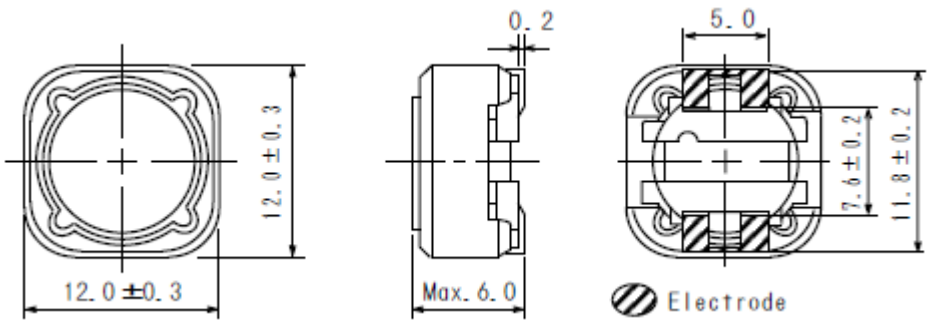
Packaging

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

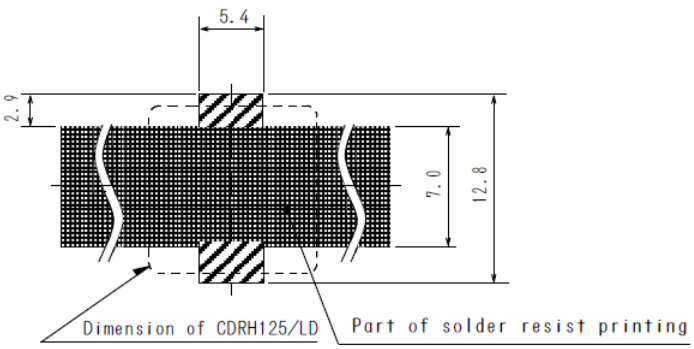
Applications

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

Dimension - [mm]

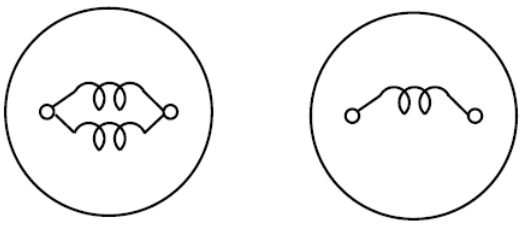


Recommended Land pattern - [mm]



No vias and traces in the restricted area underneath the coil

Wire Connection



7.5μH ~ 56μH　　68μH～1000μH

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Electrical Characteristics

Part Number	Stamp	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max. (Typ.) (mΩ)	Saturation Current (A) Max. (Typ.) ※2	TemperatureRise Current (A) Max.(Typ.) ※3
CDRH125/LDNP-7R5NC	7R5	7.5μH±30%	19.0m (14.7m)	5.60 (7.00)	6.40
CDRH125/LDNP-100NC	100	10μH±30%	29.0m (22.5m)	4.60 (6.00)	5.40
CDRH125/LDNP-120MC	120	12μH±20%	32.0m (24.6m)	4.20 (5.40)	5.20
CDRH125/LDNP-150MC	150	15μH±20%	35.0m (27.1m)	4.00 (5.00)	5.00
CDRH125/LDNP-180MC	180	18μH±20%	41.0m (31.8m)	3.56 (4.50)	4.60
CDRH125/LDNP-220MC	220	22μH±20%	44.0m (33.9m)	3.28 (4.20)	4.50
CDRH125/LDNP-270MC	270	27μH±20%	52.0m (41.5m)	3.00 (3.70)	4.20
CDRH125/LDNP-330MC	330	33μH±20%	65.0m (50.0m)	2.60 (3.25)	3.80
CDRH125/LDNP-390MC	390	39μH±20%	75.0m (60.0m)	2.40 (3.00)	3.40
CDRH125/LDNP-470MC	470	47μH±20%	95.0m (72.5m)	2.30 (2.90)	2.70
CDRH125/LDNP-560MC	560	56μH±20%	125m (95.4m)	2.00 (2.50)	2.60
CDRH125/LDNP-680MC	680	68μH±20%	0.14 (0.11)	1.85 (2.25)	2.40
CDRH125/LDNP-820MC	820	82μH±20%	0.157 (0.121)	1.70 (2.10)	2.30
CDRH125/LDNP-101MC	101	100μH±20%	0.187 (0.144)	1.60 (2.00)	2.15
CDRH125/LDNP-121MC	121	120μH±20%	0.228 (0.175)	1.37 (1.70)	1.90
CDRH125/LDNP-151MC	151	150μH±20%	0.28 (0.218)	1.26 (1.60)	1.75
CDRH125/LDNP-181MC	181	180μH±20%	0.335 (0.259)	1.14 (1.45)	1.48
CDRH125/LDNP-221MC	221	220μH±20%	0.395 (0.303)	1.08 (1.35)	1.40
CDRH125/LDNP-271MC	271	270μH±20%	0.52 (0.403)	0.94 (1.20)	1.25
CDRH125/LDNP-331MC	331	330μH±20%	0.71 (0.547)	0.85 (1.10)	1.05
CDRH125/LDNP-391MC	391	390μH±20%	0.8 (0.614)	0.77 (0.98)	1.00
CDRH125/LDNP-471MC	471	470μH±20%	0.92 (0.711)	0.72 (0.90)	0.95
CDRH125/LDNP-561MC	561	560μH±20%	1.2 (0.956)	0.67 (0.83)	0.85
CDRH125/LDNP-681MC	681	680μH±20%	1.35 (1.08)	0.57 (0.71)	1.78
CDRH125/LDNP-821MC	821	820μH±20%	1.40 (1.17)	0.51 (0.62)	1.72
CDRH125/LDNP-102MC	102	1000μH±20%	1.95 (1.62)	0.46 (0.58)	0.60

※1. Measured frequency (Inductance≦10μH at 7.96MHz; Inductance>10μH at 100kHz)

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

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

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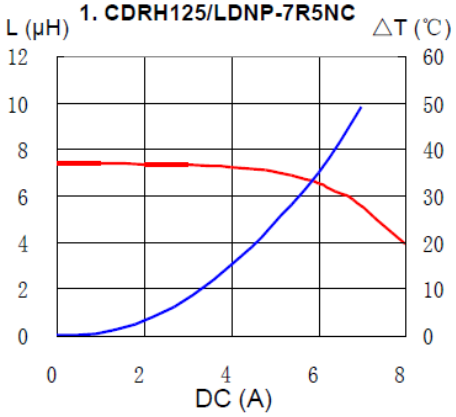
CDRH125/LD

Recommended Type

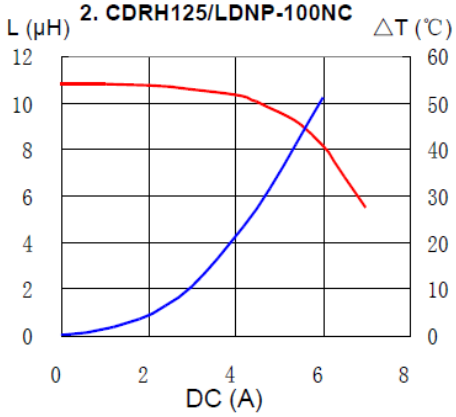
Saturation Current & Temperature Rise Graph

L (20℃)　△T

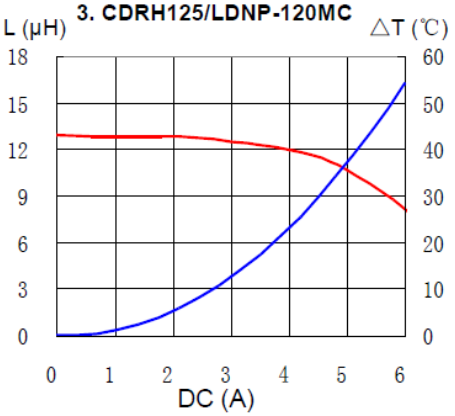
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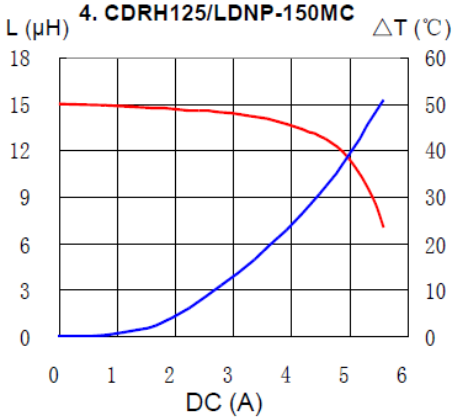
2. CDRH125/LDNP-100NC



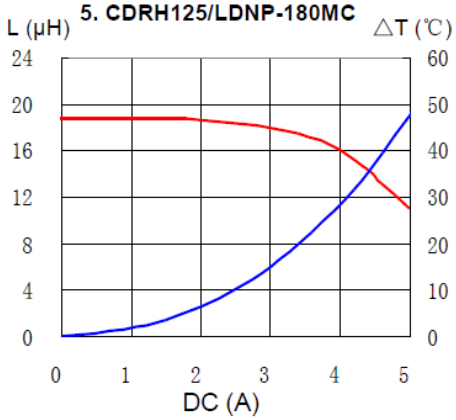
3. CDRH125/LDNP-120MC



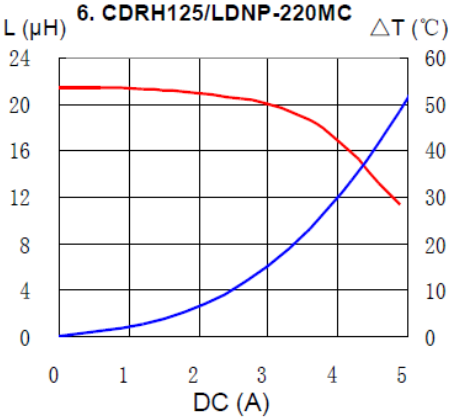
4. CDRH125/LDNP-150MC



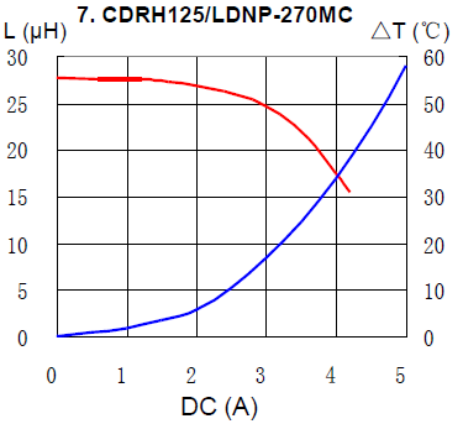
5. CDRH125/LDNP-180MC



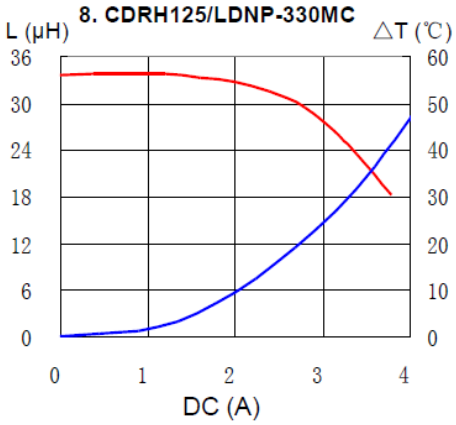
6. CDRH125/LDNP-220MC



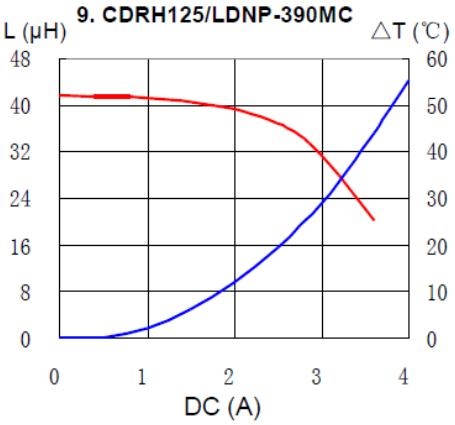
7. CDRH125/LDNP-270MC



8. CDRH125/LDNP-330MC



9. CDRH125/LDNP-390MC

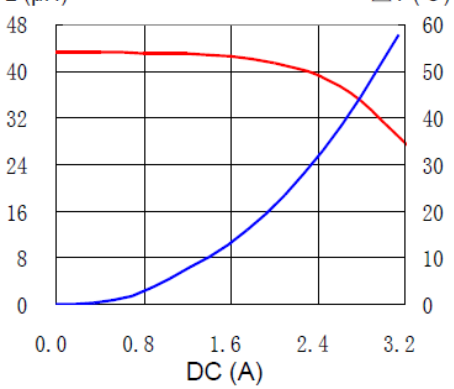


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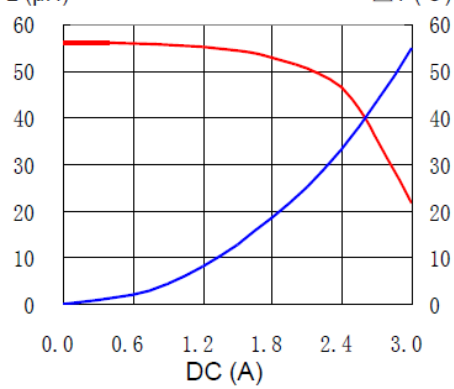
CDRH125/LD

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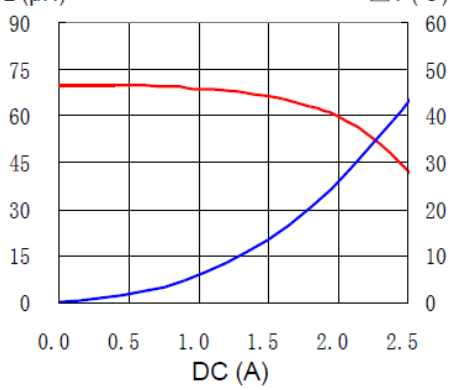
10. CDRH125/LDNP-470MC



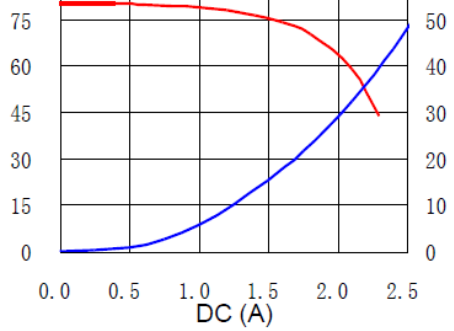
11. CDRH125/LDNP-560MC



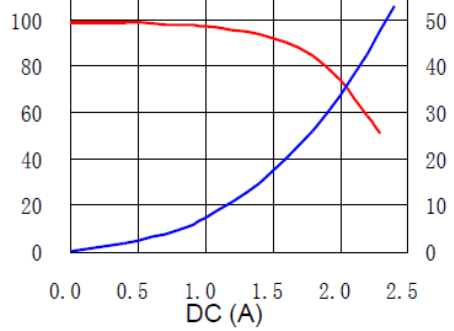
12. CDRH125/LDNP-680MC



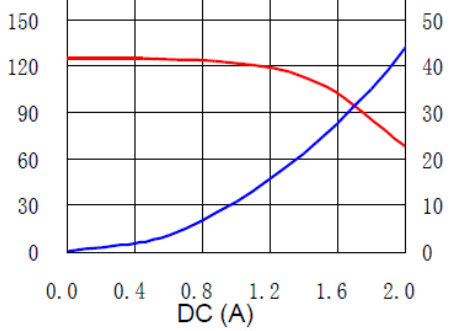
13. CDRH125/LDNP-820MC



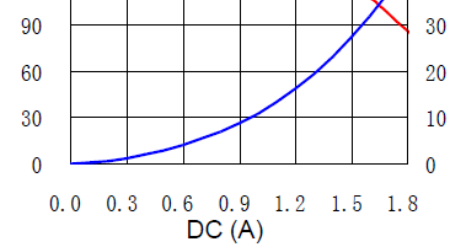
14. CDRH125/LDNP-101MC



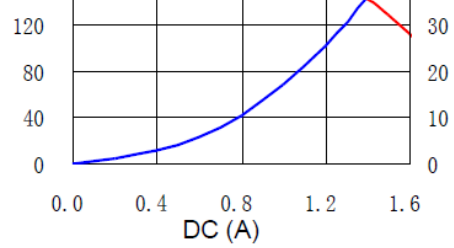
15. CDRH125/LDNP-121MC



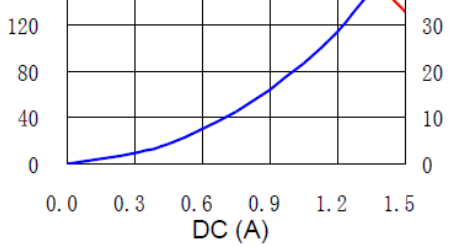
16. CDRH125/LDNP-151MC



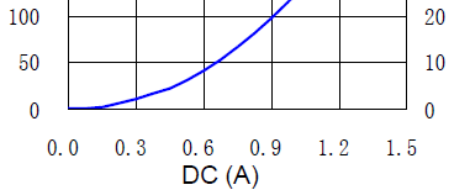
17. CDRH125/LDNP-181MC



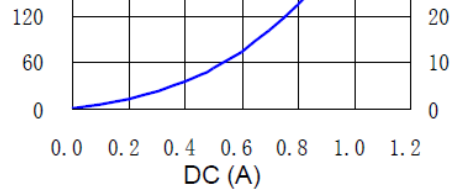
18. CDRH125/LDNP-221MC



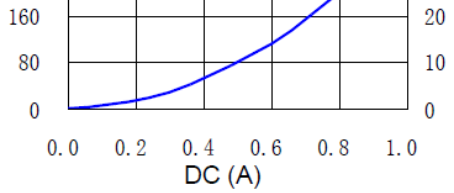
19. CDRH125/LDNP-271MC



20. CDRH125/LDNP-331MC



21. CDRH125/LDNP-391MC

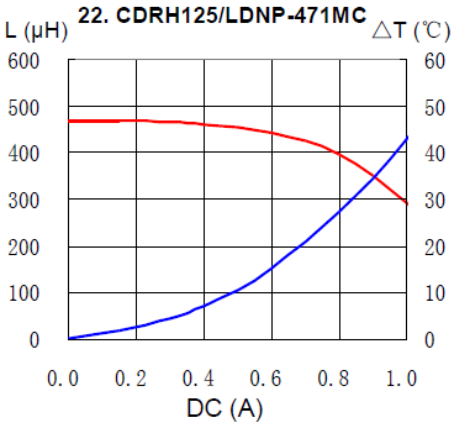


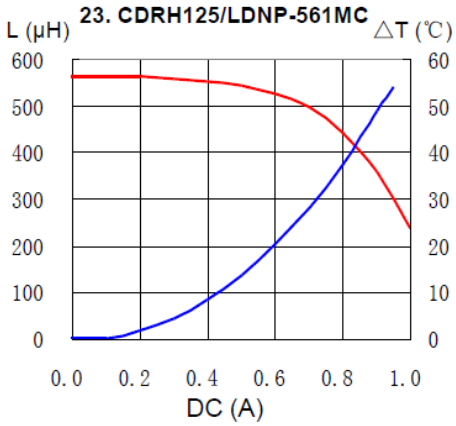
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

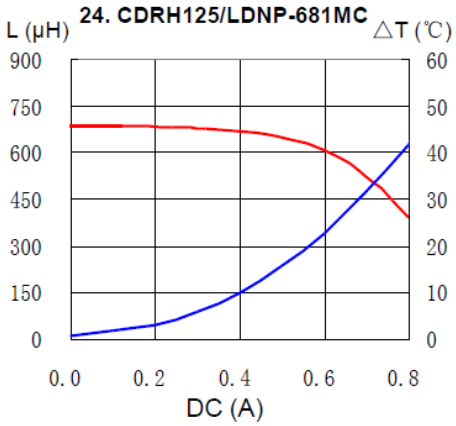
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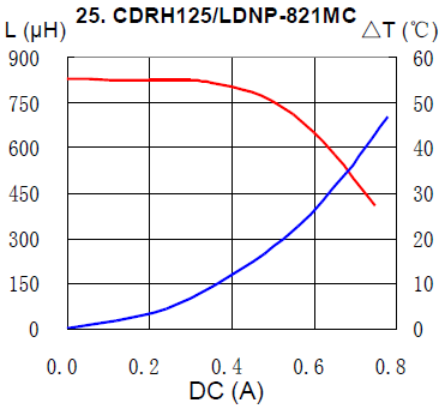
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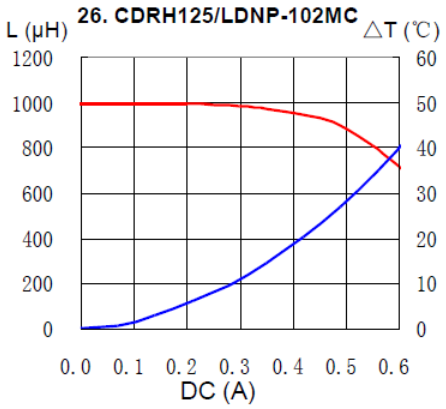
Recommended Type



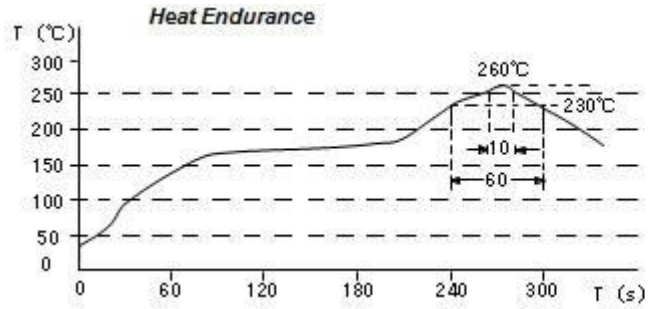


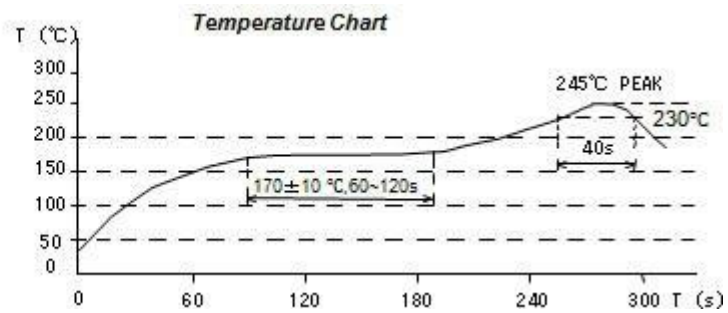






Solder Reflow Condition





For sales office information, please click here to visit our website.