

SMD Power Inductor CDRH125/L125



Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 6.0 mm Max.
- Product weight: 3.0g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.
- Qualified to AEC-Q200.

Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

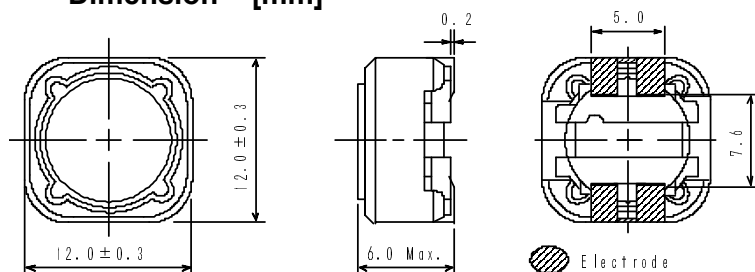
Packaging

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

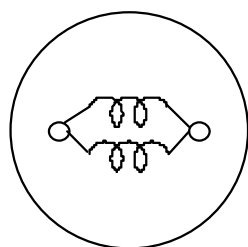
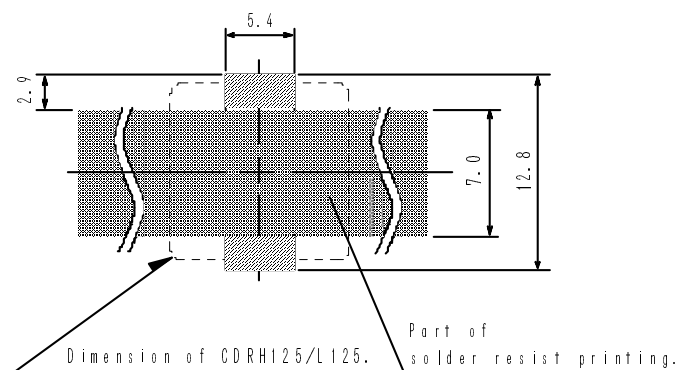
Applications

- Automotive.

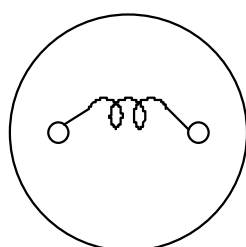
Dimension - [mm]



Land pattern and Schematics - [mm]



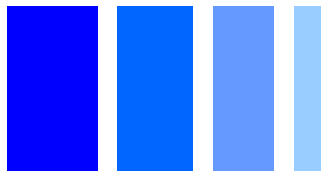
(1.2 μ H ~ 47 μ H)



(68 μ H ~ 1.0mH)

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Electrical Characteristics

Part Name	Stamp	Inductance (μ H) ※1	D.C.R.(Ω) Max.(Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 125°C	
CDRH125L125NP-1R2NC	1R2	1.2 $\pm$ 30%	8.5m(6.8m)	14.20	11.60	9.00
CDRH125L125NP-1R8NC	1R8	1.8 $\pm$ 30%	10.6m(8.5m)	12.60	10.10	8.00
CDRH125L125NP-2R7NC	2R7	2.7 $\pm$ 30%	12.8m(10.2m)	10.20	8.20	7.40
CDRH125L125NP-3R9NC	3R9	3.9 $\pm$ 30%	15.0m(12.0m)	8.20	6.70	6.80
CDRH125L125NP-5R1NC	5R1	5.1 $\pm$ 30%	17.5m(14.0m)	7.20	5.90	6.50
CDRH125L125NP-6R8NC	6R8	6.8 $\pm$ 30%	20.0m(16.0m)	6.20	4.90	5.90
CDRH125L125NP-100MC	100	10 $\pm$ 20%	25.0m(20.0m)	5.20	4.10	5.30
CDRH125L125NP-150MC	150	15 $\pm$ 20%	33.8m(27.0m)	4.40	3.50	4.50
CDRH125L125NP-220MC	220	22 $\pm$ 20%	39.5m(31.5m)	3.50	2.81	3.70
CDRH125L125NP-330MC	330	33 $\pm$ 20%	59.0m(47.0m)	2.93	2.38	3.00
CDRH125L125NP-470MC	470	47 $\pm$ 20%	93.0m(74.0m)	2.44	2.00	2.42
CDRH125L125NP-680MC	680	68 $\pm$ 20%	131m(105m)	2.02	1.65	2.05
CDRH125L125NP-101MC	101	100 $\pm$ 20%	166m(133m)	1.70	1.37	1.82
CDRH125L125NP-151MC	151	150 $\pm$ 20%	271m(217m)	1.36	1.11	1.40
CDRH125L125NP-221MC	221	220 $\pm$ 20%	394m(315m)	1.12	0.90	1.15
CDRH125L125NP-331MC	331	330 $\pm$ 20%	674m(539m)	0.90	0.73	0.90
CDRH125L125NP-471MC	471	470 $\pm$ 20%	858m(686m)	0.75	0.61	0.81
CDRH125L125NP-681MC	681	680 $\pm$ 20%	1.22(1.02)	0.62	0.50	0.65
CDRH125L125NP-102MC	102	1000 $\pm$ 20%	1.90(1.58)	0.52	0.42	0.50

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

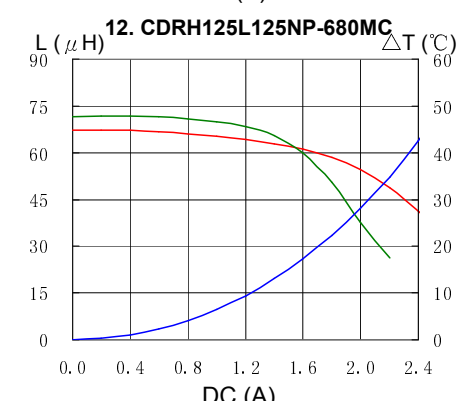
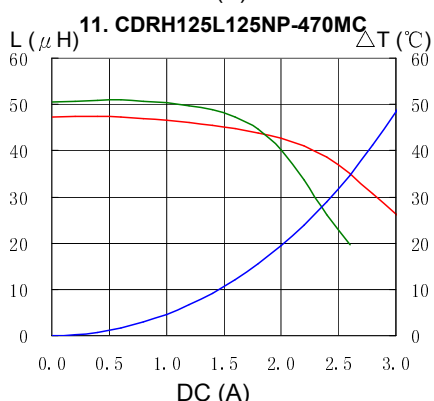
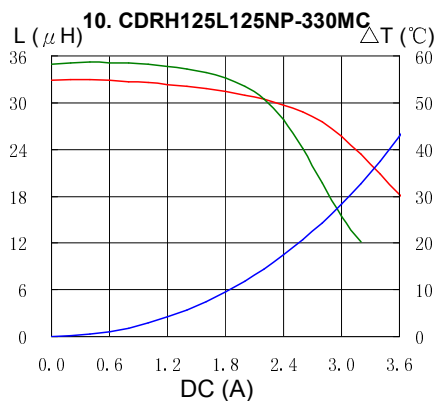
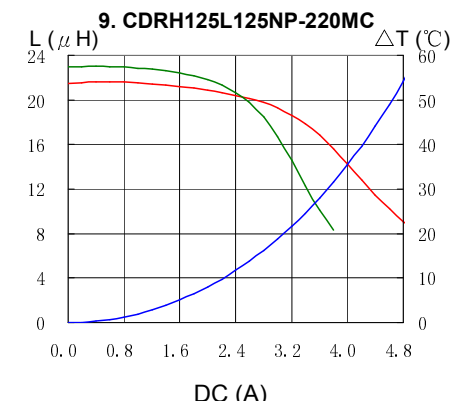
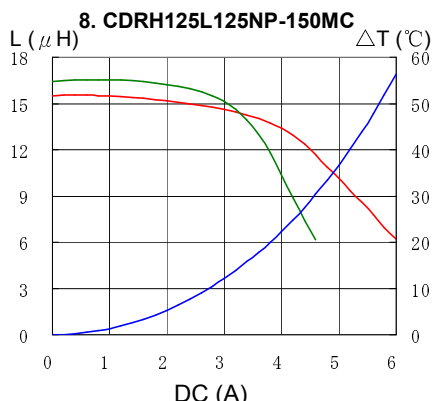
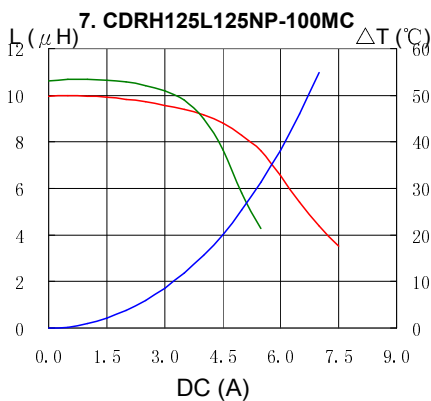
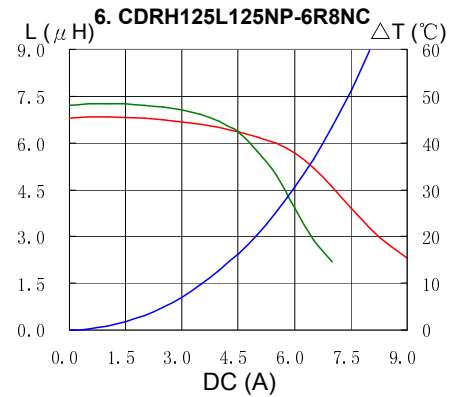
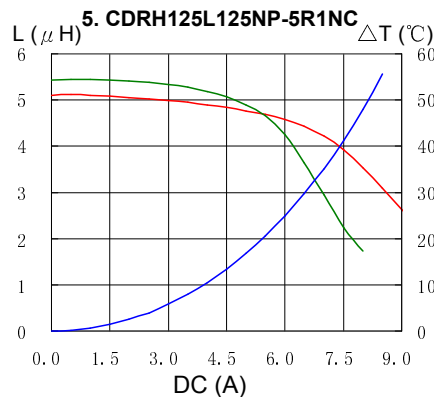
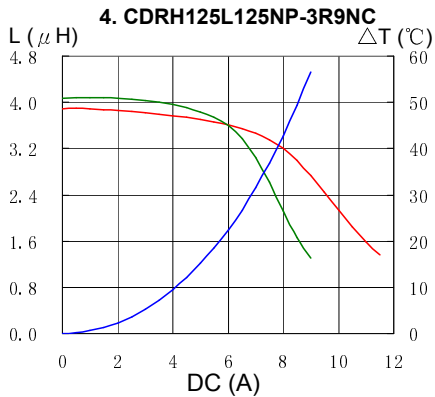
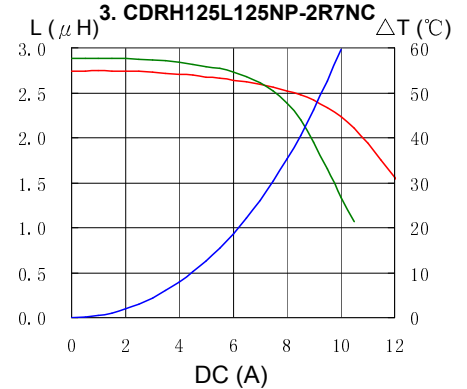
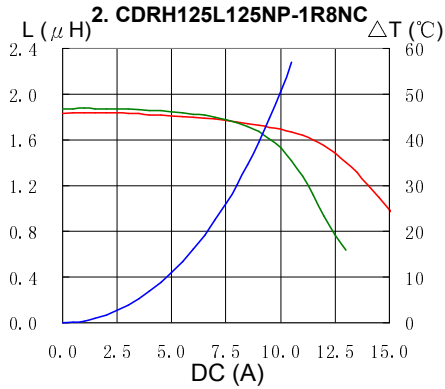
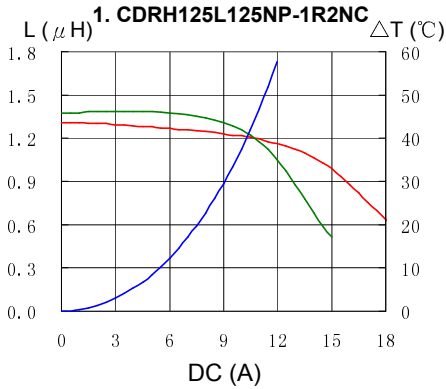
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

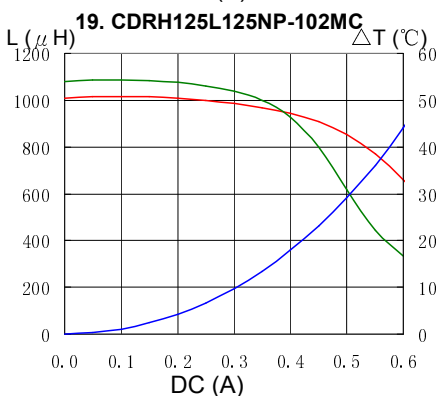
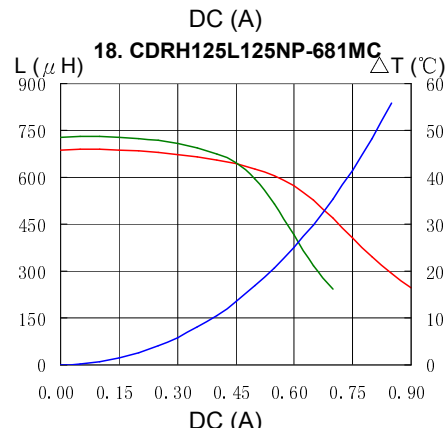
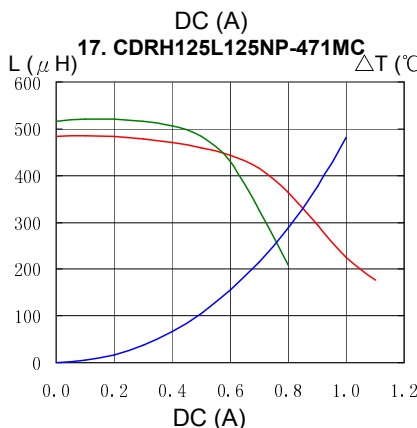
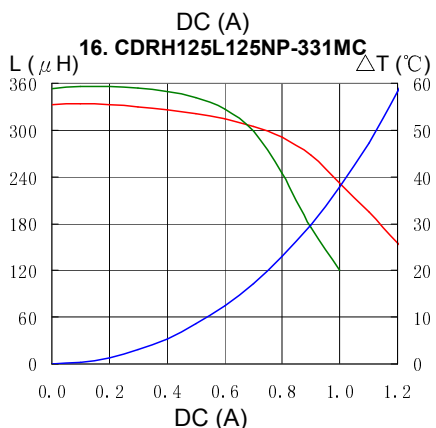
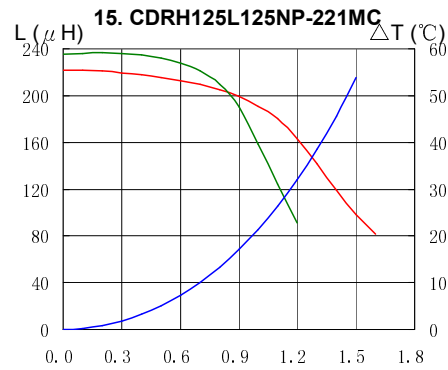
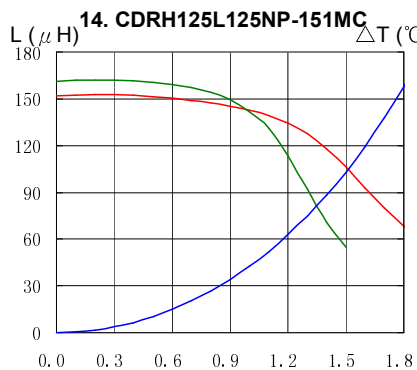
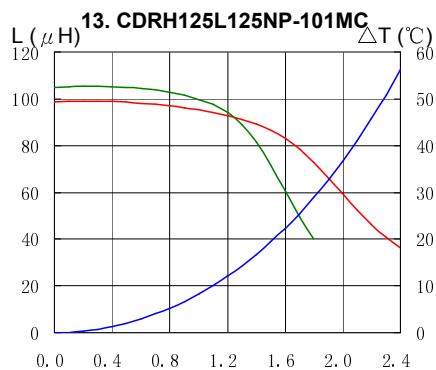
— L (20°C) — L (125°C) — ΔT



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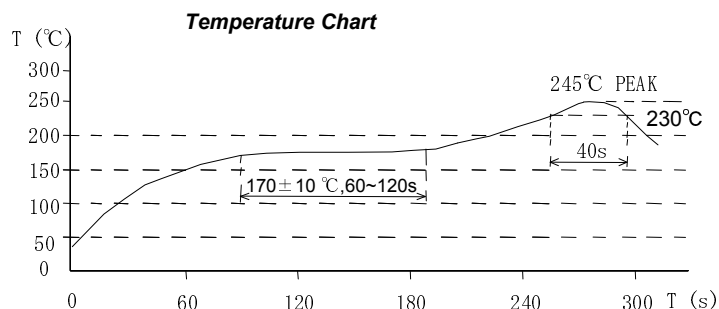
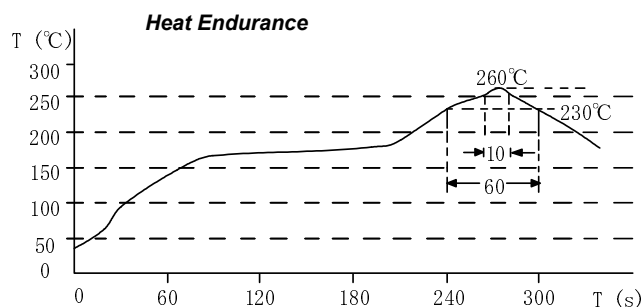
— L (20°C) — L (125°C) — ΔT



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Solder Reflow Condition



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