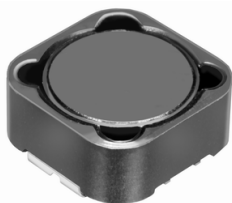


SMD Power Inductor CDRH125/LD



RoHS

Halogen
Free



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.
- Halogen Free available.

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.

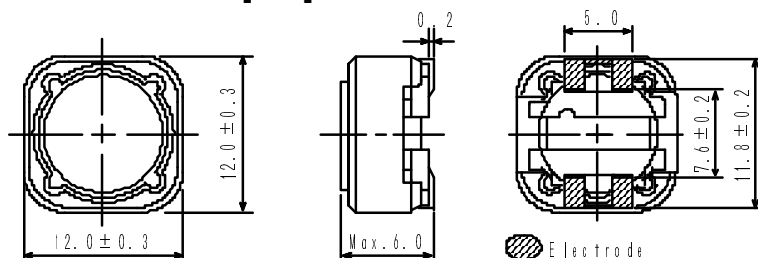
Packaging

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

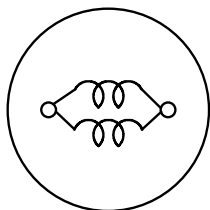
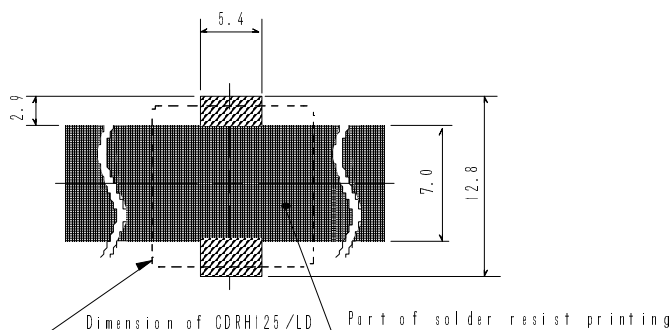
Applications

- Ideally used in Notebook PC, LCD TV, DVD, Game machine, STB, Projector etc. as converter inductors.

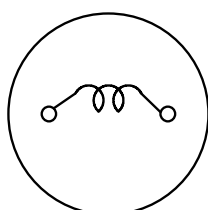
Dimension - [mm]



Land pattern and Schematics - [mm]

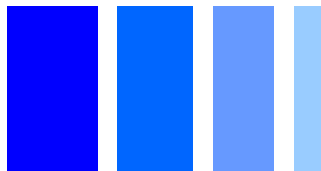


7.5 μH ~ 56 μH



68 μH ~ 1000 μH

SMD Power Inductor CDRH125/LD



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [within] ※1	D.C.R (Ω) [Max.] (Typ.)	Rated Current (A) ※2
CDRH125/LDNP-7R5NC	7R5	7.5 $\pm$ 30%	14.7m(19.0m)	5.60
CDRH125/LDNP-100NC	100	10 $\pm$ 30%	22.5m(29.0m)	4.60
CDRH125/LDNP-120MC	120	12 $\pm$ 20%	24.6m(32.0m)	4.20
CDRH125/LDNP-150MC	150	15 $\pm$ 20%	27.1m(35.0m)	4.00
CDRH125/LDNP-180MC	180	18 $\pm$ 20%	31.8m(41.0m)	3.56
CDRH125/LDNP-220MC	220	22 $\pm$ 20%	33.9m(44.0m)	3.28
CDRH125/LDNP-270MC	270	27 $\pm$ 20%	41.5m(52.0m)	3.00
CDRH125/LDNP-330MC	330	33 $\pm$ 20%	50.0m(65.0m)	2.60
CDRH125/LDNP-390MC	390	39 $\pm$ 20%	60.0m(75.0m)	2.40
CDRH125/LDNP-470MC	470	47 $\pm$ 20%	72.5m(95.0m)	2.30
CDRH125/LDNP-560MC	560	56 $\pm$ 20%	95.4m(125m)	2.00
CDRH125/LDNP-680MC	680	68 $\pm$ 20%	0.110(0.140)	1.85
CDRH125/LDNP-820MC	820	82 $\pm$ 20%	0.121(0.157)	1.70
CDRH125/LDNP-101MC	101	100 $\pm$ 20%	0.144(0.187)	1.60
CDRH125/LDNP-121MC	121	120 $\pm$ 20%	0.175(0.228)	1.37
CDRH125/LDNP-151MC	151	150 $\pm$ 20%	0.218(0.280)	1.26
CDRH125/LDNP-181MC	181	180 $\pm$ 20%	0.259(0.335)	1.14
CDRH125/LDNP-221MC	221	220 $\pm$ 20%	0.303(0.395)	1.08
CDRH125/LDNP-271MC	271	270 $\pm$ 20%	0.403(0.520)	0.94
CDRH125/LDNP-331MC	331	330 $\pm$ 20%	0.547(0.710)	0.85
CDRH125/LDNP-391MC	391	390 $\pm$ 20%	0.614(0.800)	0.77
CDRH125/LDNP-471MC	471	470 $\pm$ 20%	0.711(0.920)	0.72
CDRH125/LDNP-561MC	561	560 $\pm$ 20%	0.956(1.20)	0.67
CDRH125/LDNP-681MC	681	680 $\pm$ 20%	1.08(1.35)	0.57
CDRH125/LDNP-821MC	821	820 $\pm$ 20%	1.17(1.40)	0.51
CDRH125/LDNP-102MC	102	1000 $\pm$ 20%	1.62(1.95)	0.46

※1. Inductance measuring condition: Inductance $\leq$ 10 μ H at 7.96MHz; Inductance > 10 μ H at 100kHz

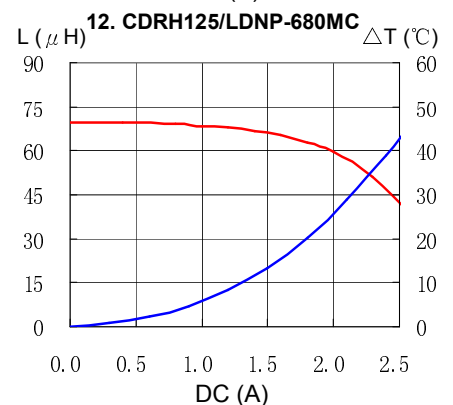
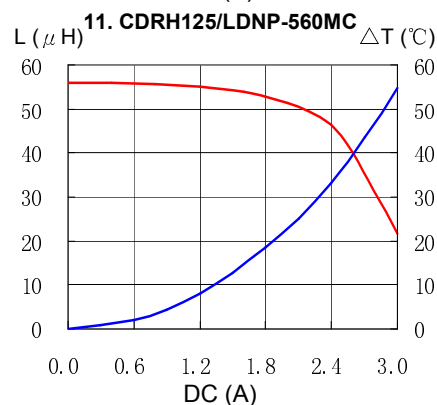
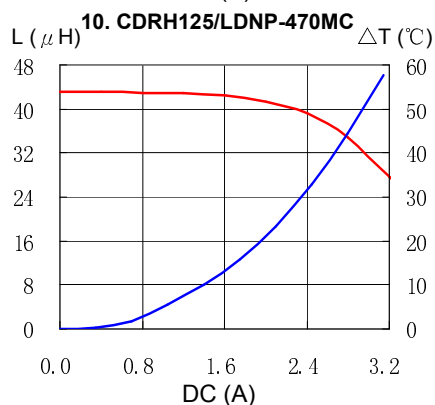
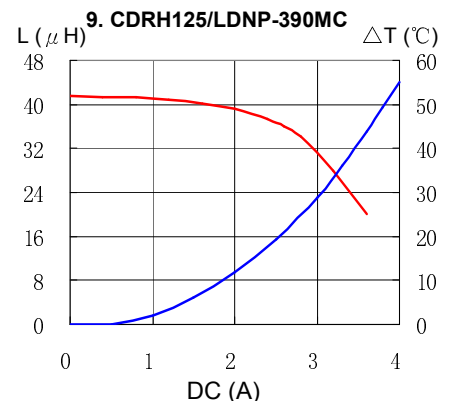
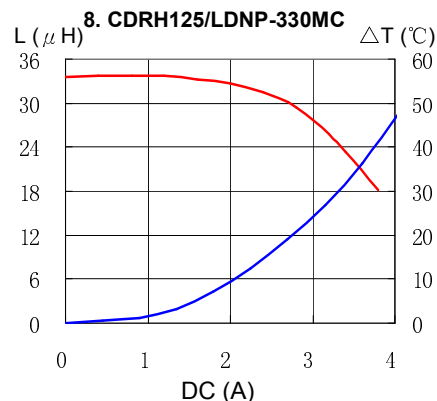
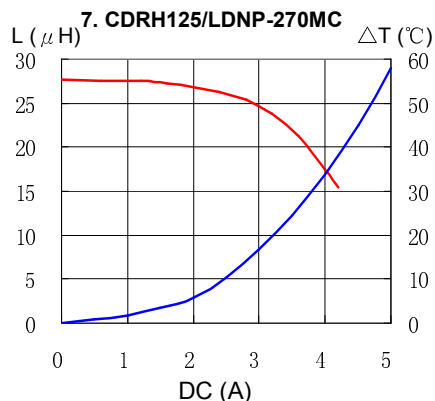
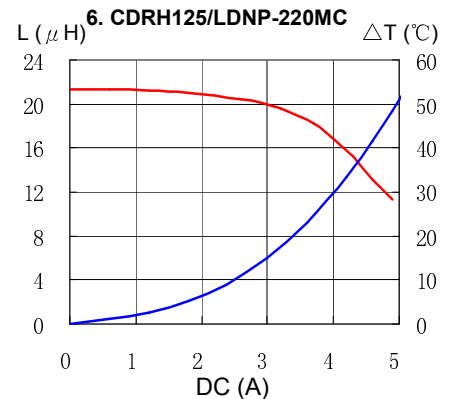
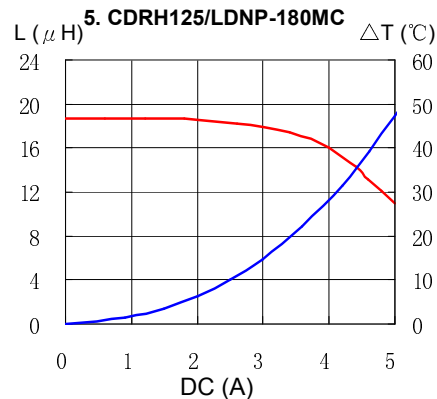
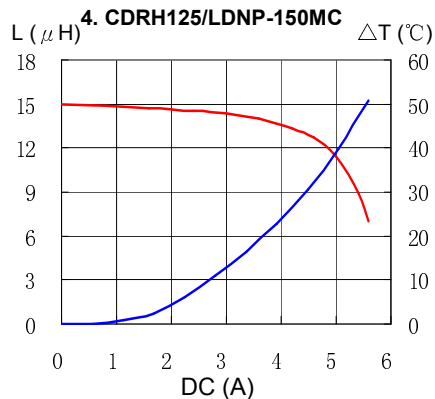
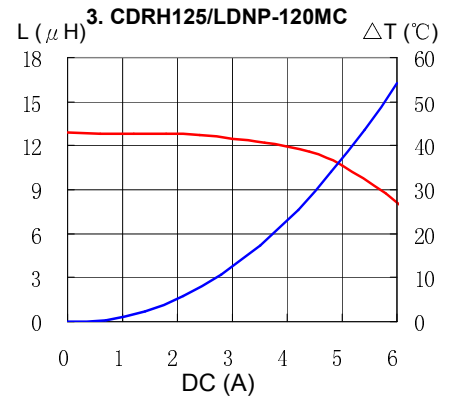
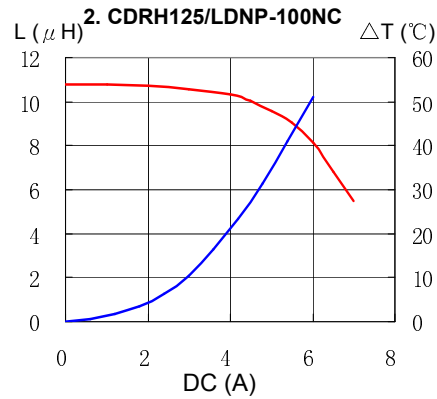
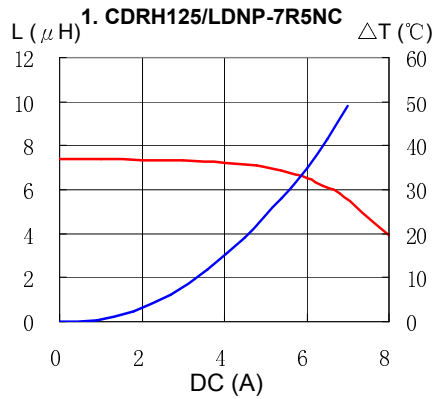
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower .

SMD Power Inductor CDRH125/LD



Saturation Current & Temperature Rise Graph

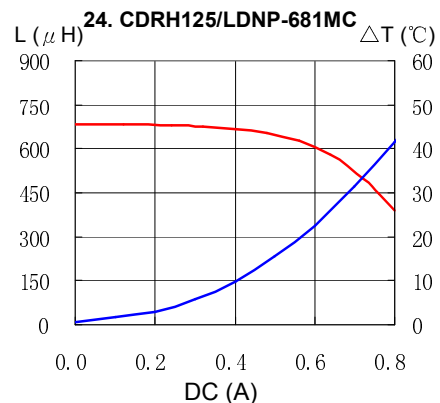
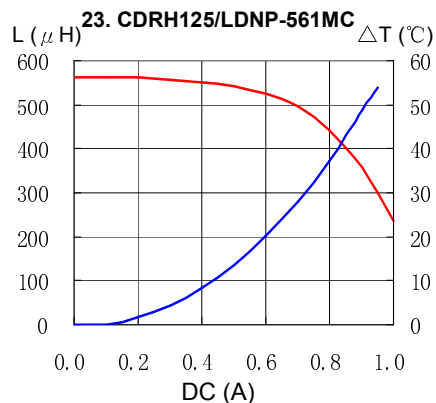
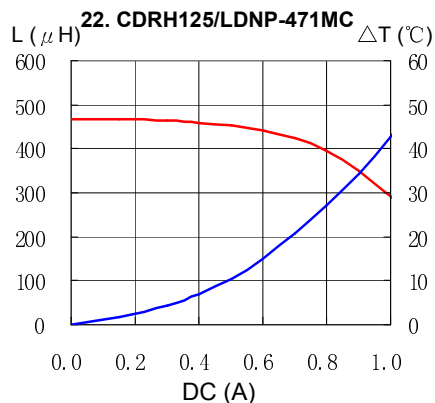
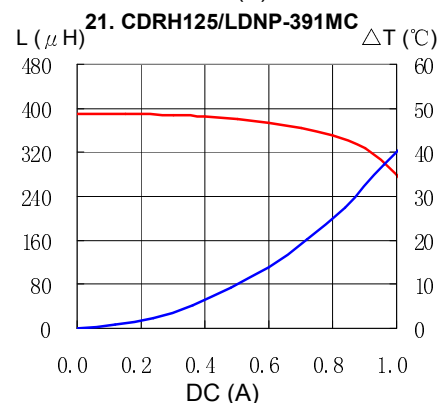
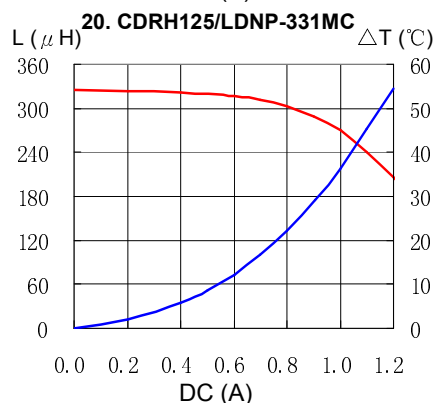
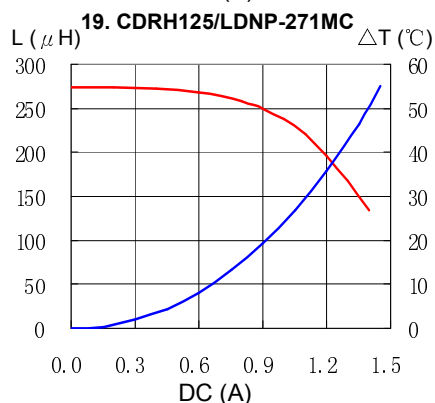
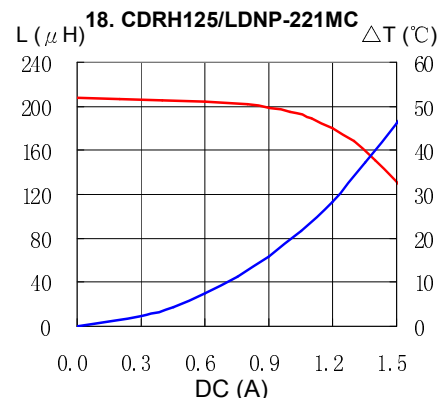
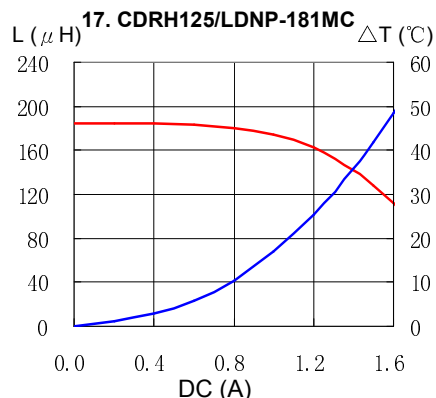
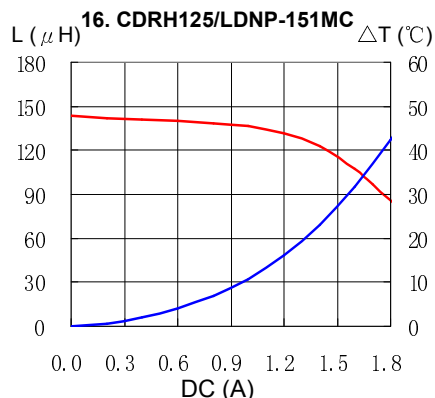
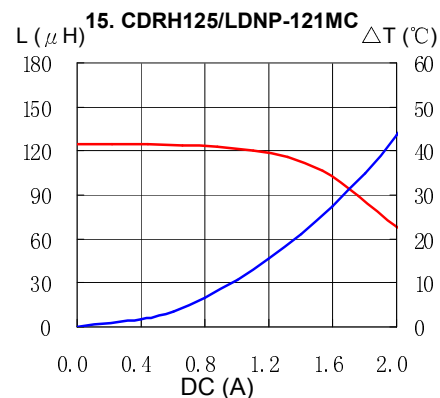
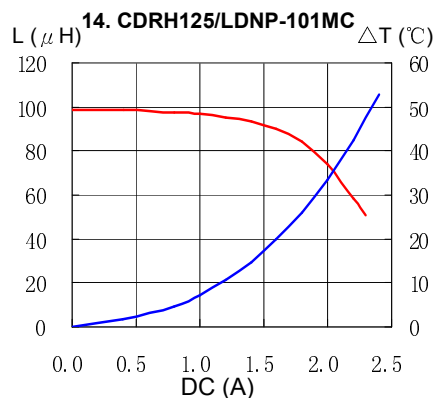
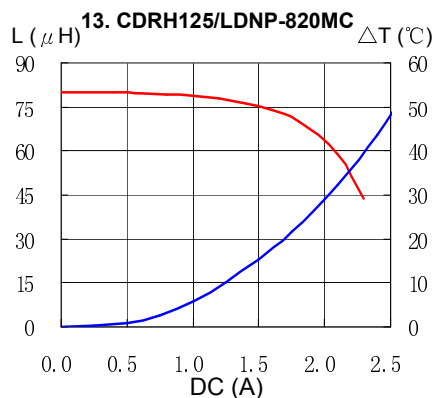
— L (20°C) — ΔT





Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

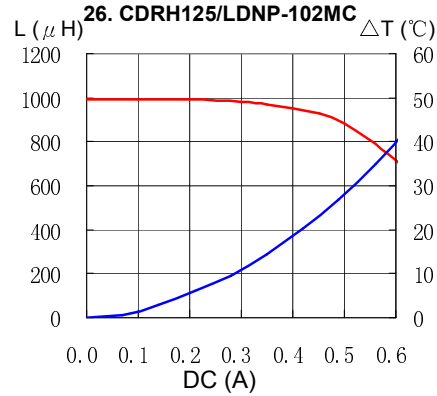
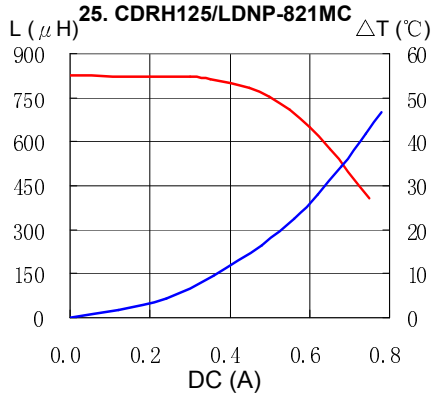


SMD Power Inductor CDRH125/LD

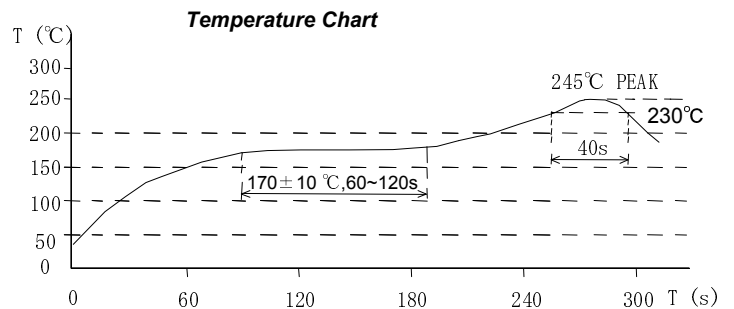
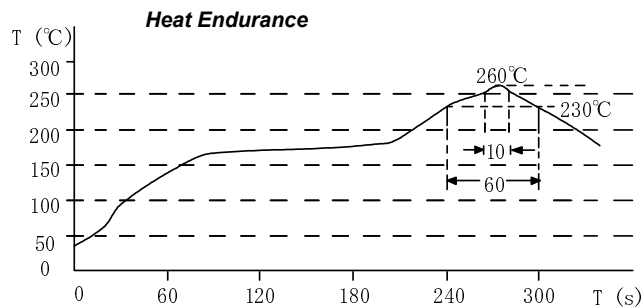


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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