

SMD Power Inductor CDRH125/LD



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.

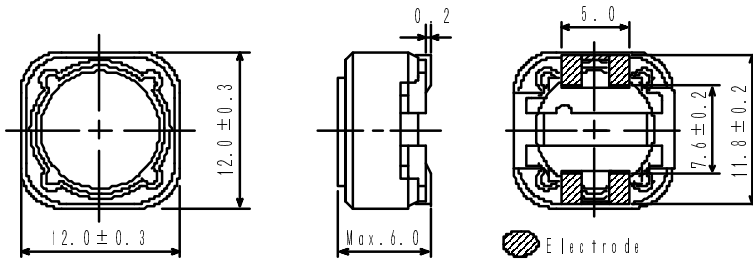
Packaging

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

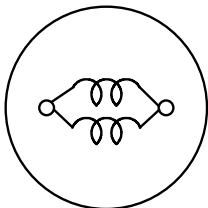
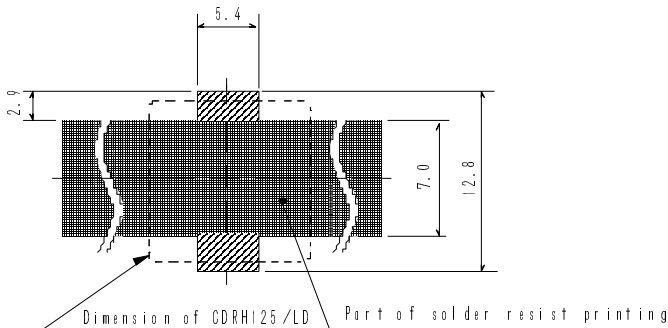
Applications

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

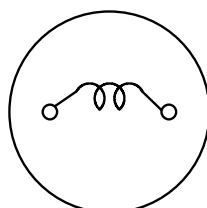
Dimension - [mm]



Land pattern and Schematics - [mm]



7.5 μH ~ 56 μH



68 μH ~ 1000 μH

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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%	19.0m(14.7m)	5.60
CDRH125/LDNP-100NC	100	10 \pm 30%	29.0m(22.5m)	4.60
CDRH125/LDNP-120MC	120	12 \pm 20%	32.0m(24.6m)	4.20
CDRH125/LDNP-150MC	150	15 \pm 20%	35.0m(27.1m)	4.00
CDRH125/LDNP-180MC	180	18 \pm 20%	41.0m(31.8m)	3.56
CDRH125/LDNP-220MC	220	22 \pm 20%	44.0m(33.9m)	3.28
CDRH125/LDNP-270MC	270	27 \pm 20%	52.0m(41.5m)	3.00
CDRH125/LDNP-330MC	330	33 \pm 20%	65.0m(50.0m)	2.60
CDRH125/LDNP-390MC	390	39 \pm 20%	75.0m(60.0m)	2.40
CDRH125/LDNP-470MC	470	47 \pm 20%	95.0m(72.5m)	2.30
CDRH125/LDNP-560MC	560	56 \pm 20%	125m(95.4m)	2.00
CDRH125/LDNP-680MC	680	68 \pm 20%	0.140(0.11)	1.85
CDRH125/LDNP-820MC	820	82 \pm 20%	0.157(0.121)	1.70
CDRH125/LDNP-101MC	101	100 \pm 20%	0.187(0.144)	1.60
CDRH125/LDNP-121MC	121	120 \pm 20%	0.228(0.175)	1.37
CDRH125/LDNP-151MC	151	150 \pm 20%	0.280(0.218)	1.26
CDRH125/LDNP-181MC	181	180 \pm 20%	0.335(0.259)	1.14
CDRH125/LDNP-221MC	221	220 \pm 20%	0.395(0.303)	1.08
CDRH125/LDNP-271MC	271	270 \pm 20%	0.520(0.403)	0.94
CDRH125/LDNP-331MC	331	330 \pm 20%	0.710(0.547)	0.85
CDRH125/LDNP-391MC	391	390 \pm 20%	0.800(0.614)	0.77
CDRH125/LDNP-471MC	471	470 \pm 20%	0.920(0.711)	0.72
CDRH125/LDNP-561MC	561	560 \pm 20%	1.20(0.956)	0.67
CDRH125/LDNP-681MC	681	680 \pm 20%	1.35(1.08)	0.57
CDRH125/LDNP-821MC	821	820 \pm 20%	1.40(1.17)	0.51
CDRH125/LDNP-102MC	102	1000 \pm 20%	1.95(1.62)	0.46

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

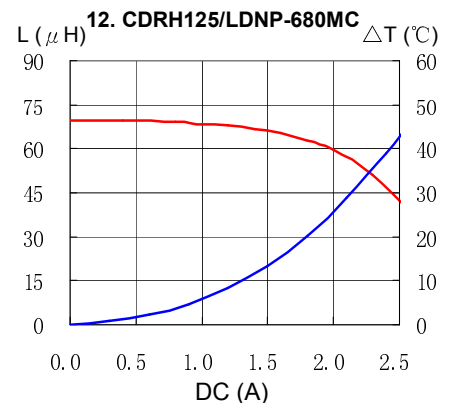
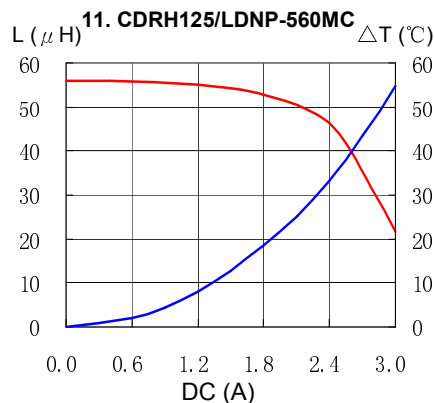
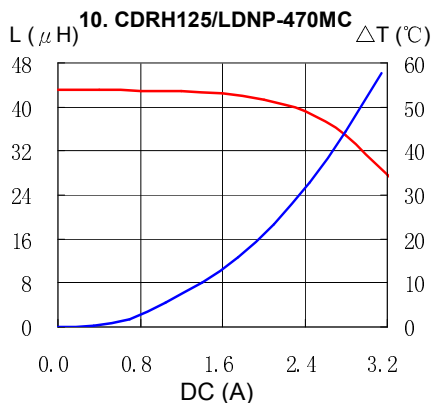
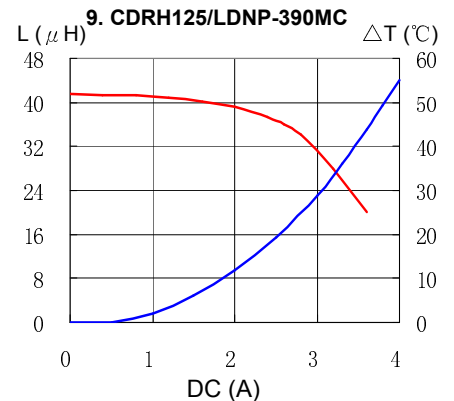
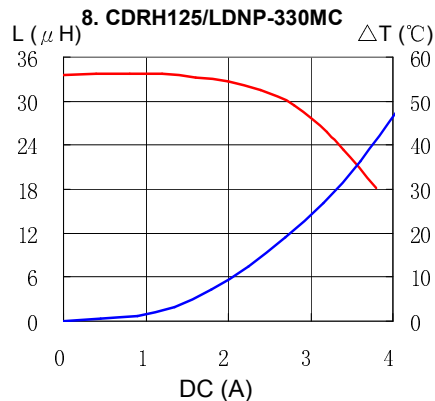
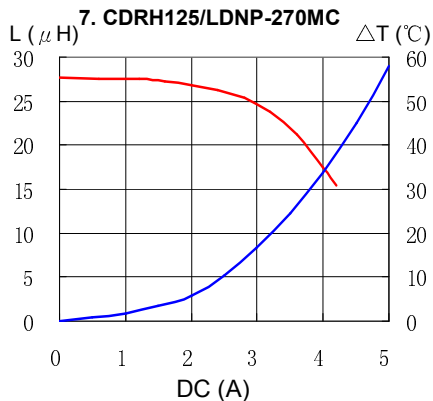
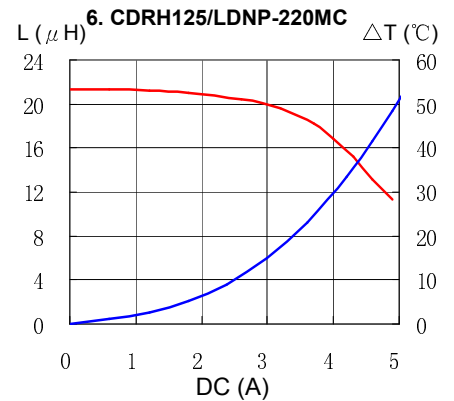
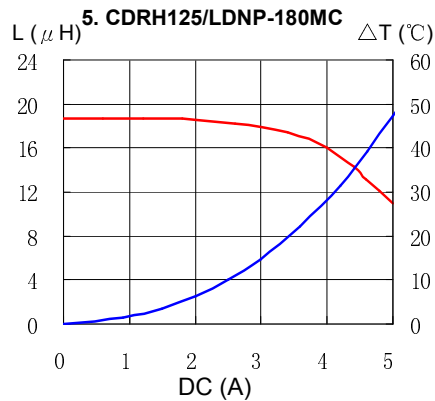
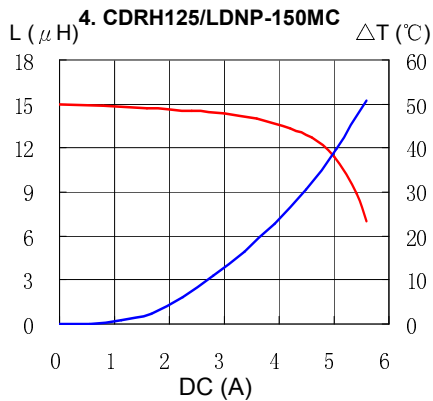
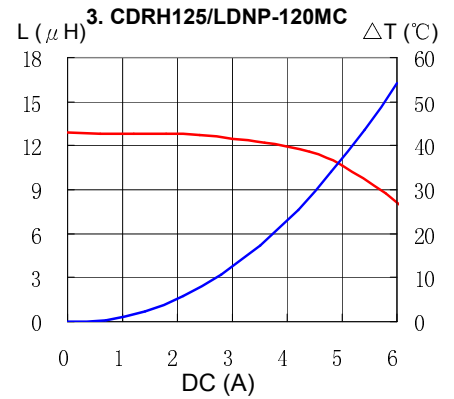
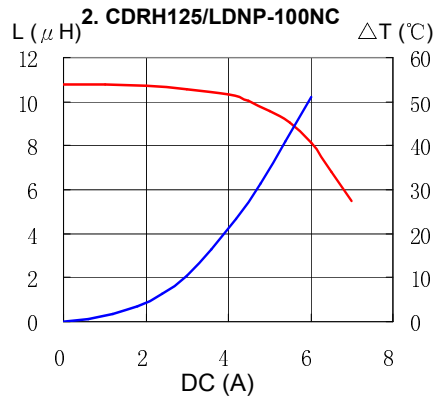
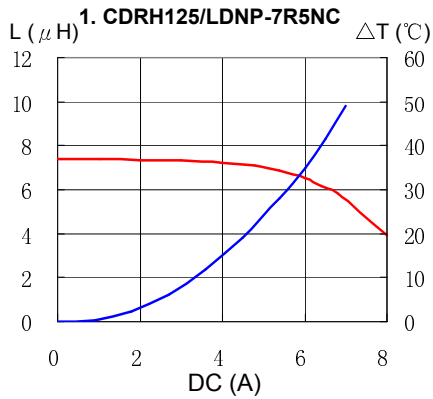
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when $\Delta t=40^{\circ}\text{C}$, whichever is lower .

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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

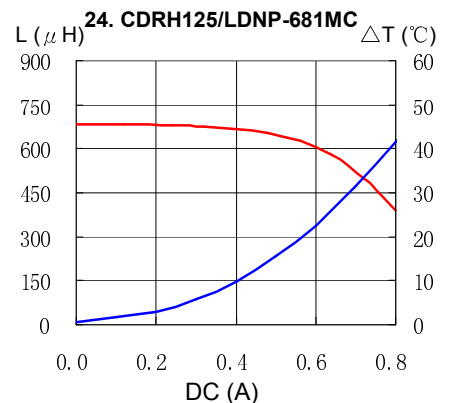
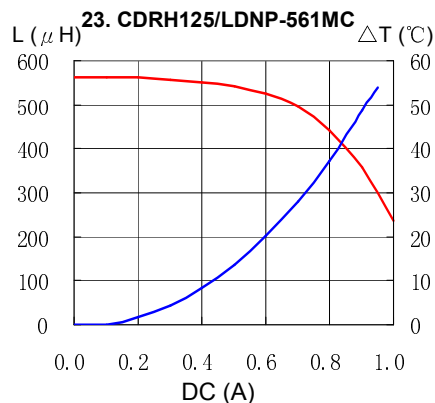
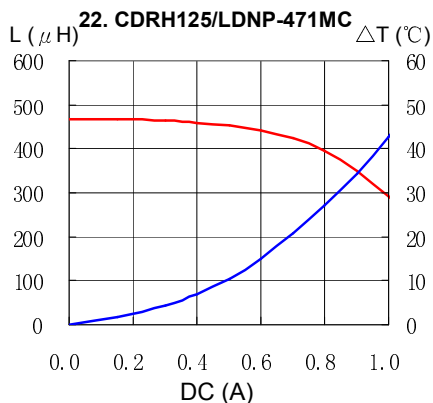
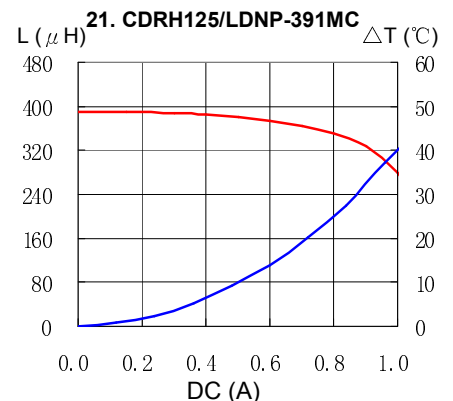
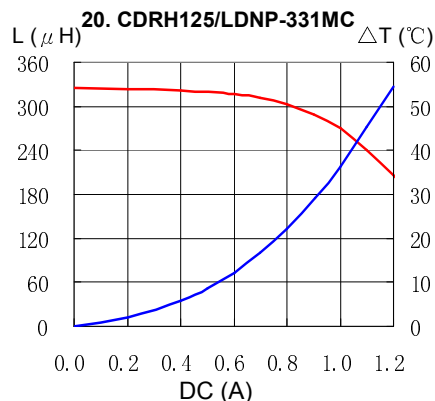
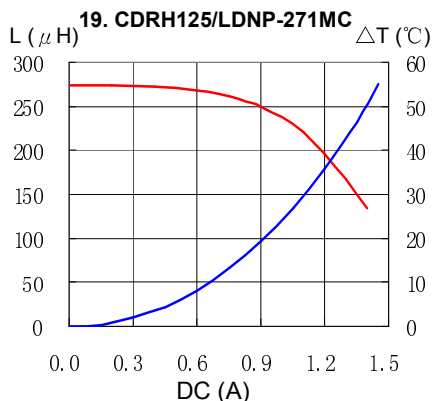
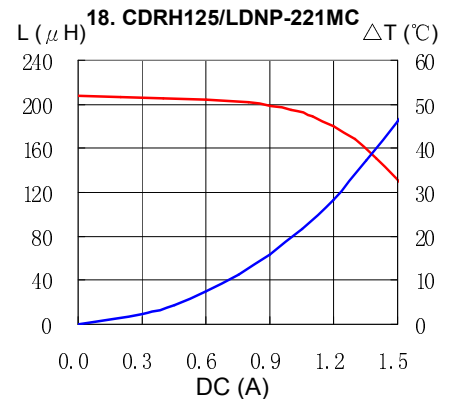
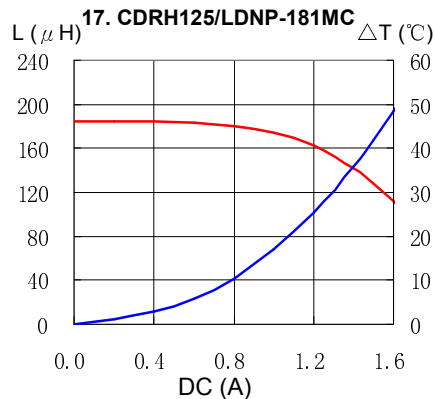
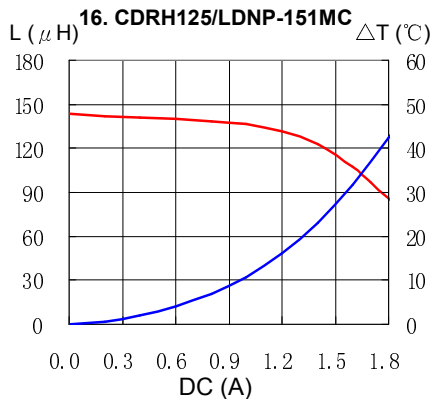
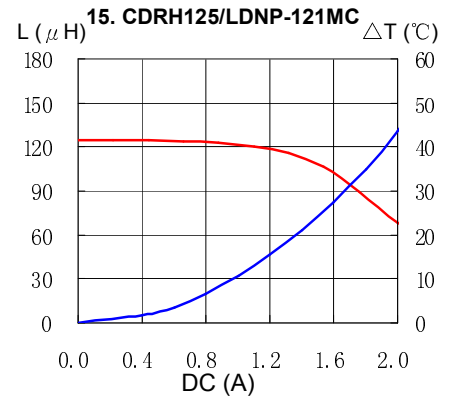
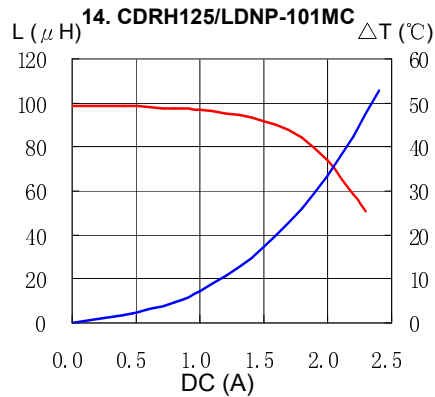
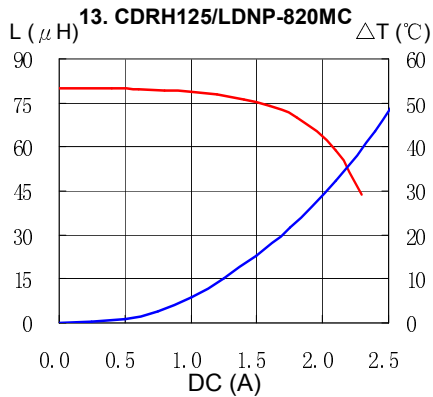


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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

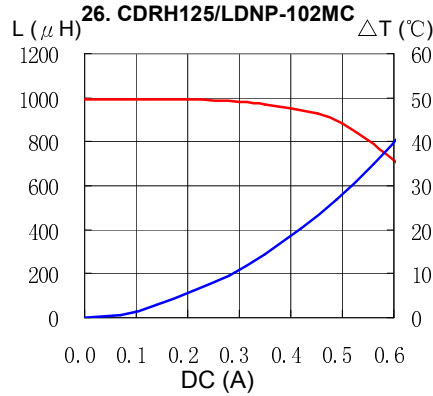
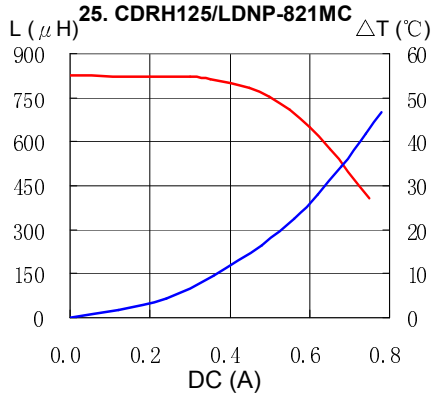


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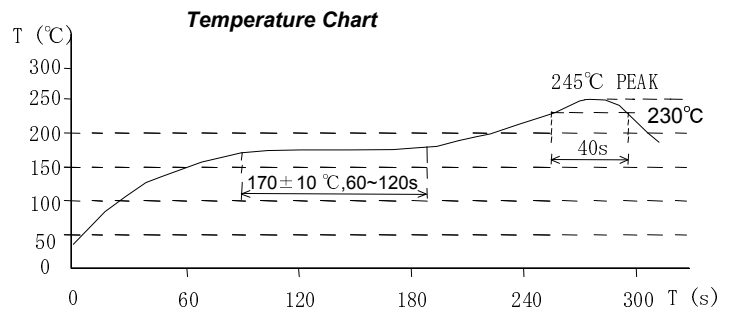
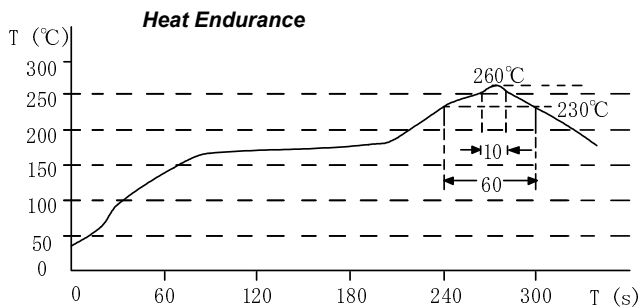


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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Hong Kong
Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)
Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago
Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai
Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul
Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Oberzell
Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen
Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore
Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt
Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei
Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose
Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com