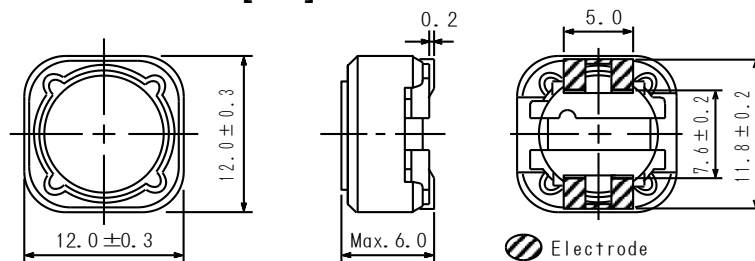


SMD Power Inductor

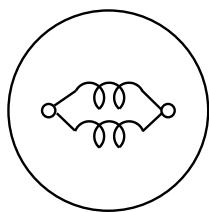
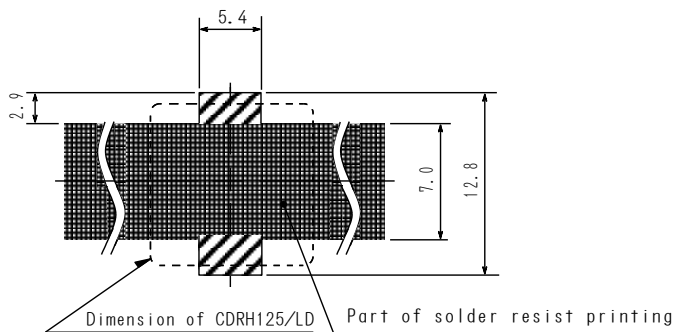
CDRH125/LD



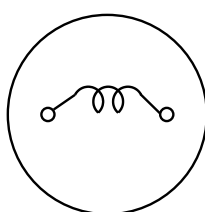
Dimension - [mm]



Land pattern and Schematics - [mm]



7.5 μ H ~ 56 μ H



68 μ H ~ 1000 μ H

Description

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

Environmental Data

- Operating temperature range: -40 $^{\circ}$ C ~ +100 $^{\circ}$ C (including coil's self temperature rise)
- Storage temperature range: -40 $^{\circ}$ C ~ +100 $^{\circ}$ C
- Solder reflow temperature: 260 $^{\circ}$ 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 converter inductors.

※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 $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).

SMD Power Inductor

CDRH125/LD



Electrical Characteristics

Part No	Stamp	Inductance [Within] ※1	D.C.R (Ω) [Typ.]	D.C.R (Ω) [Max.]	Saturation current (A)※2 Max.(Typ.)	Temperature rise current (A)※3
CDRH125/LDNP-7R5NC	7R5	7.5 $\mu\text{H} \pm 30\%$	14.7m	19.0m	5.60(7.00)	6.40
CDRH125/LDNP-100NC	100	10 $\mu\text{H} \pm 30\%$	22.5m	29.0m	4.60(6.00)	5.40
CDRH125/LDNP-120MC	120	12 $\mu\text{H} \pm 20\%$	24.6m	32.0m	4.20(5.40)	5.20
CDRH125/LDNP-150MC	150	15 $\mu\text{H} \pm 20\%$	27.1m	35.0m	4.00(5.00)	5.00
CDRH125/LDNP-180MC	180	18 $\mu\text{H} \pm 20\%$	31.8m	41.0m	3.56(4.50)	4.60
CDRH125/LDNP-220MC	220	22 $\mu\text{H} \pm 20\%$	33.9m	44.0m	3.28(4.20)	4.50
CDRH125/LDNP-270MC	270	27 $\mu\text{H} \pm 20\%$	41.5m	52.0m	3.00(3.70)	4.20
CDRH125/LDNP-330MC	330	33 $\mu\text{H} \pm 20\%$	50.0m	65.0m	2.60(3.25)	3.80
CDRH125/LDNP-390MC	390	39 $\mu\text{H} \pm 20\%$	60.0m	75.0m	2.40 (3.00)	3.40
CDRH125/LDNP-470MC	470	47 $\mu\text{H} \pm 20\%$	72.5m	95.0m	2.30(2.90)	2.70
CDRH125/LDNP-560MC	560	56 $\mu\text{H} \pm 20\%$	95.4m	125m	2.00(2.50)	2.60
CDRH125/LDNP-680MC	680	68 $\mu\text{H} \pm 20\%$	0.110	0.140	1.85(2.25)	2.40
CDRH125/LDNP-820MC	820	82 $\mu\text{H} \pm 20\%$	0.121	0.157	1.70(2.10)	2.30
CDRH125/LDNP-101MC	101	100 $\mu\text{H} \pm 20\%$	0.144	0.187	1.60(2.00)	2.15
CDRH125/LDNP-121MC	121	120 $\mu\text{H} \pm 20\%$	0.175	0.228	1.37(1.70)	1.90
CDRH125/LDNP-151MC	151	150 $\mu\text{H} \pm 20\%$	0.218	0.280	1.26(1.60)	1.75
CDRH125/LDNP-181MC	181	180 $\mu\text{H} \pm 20\%$	0.259	0.335	1.14(1.45)	1.48
CDRH125/LDNP-221MC	221	220 $\mu\text{H} \pm 20\%$	0.303	0.395	1.08(1.35)	1.40
CDRH125/LDNP-271MC	271	270 $\mu\text{H} \pm 20\%$	0.403	0.520	0.94 (1.20)	1.25
CDRH125/LDNP-331MC	331	330 $\mu\text{H} \pm 20\%$	0.547	0.710	0.85 (1.10)	1.05
CDRH125/LDNP-391MC	391	390 $\mu\text{H} \pm 20\%$	0.614	0.800	0.77 (0.98)	1.00
CDRH125/LDNP-471MC	471	470 $\mu\text{H} \pm 20\%$	0.711	0.920	0.72 (0.90)	0.95
CDRH125/LDNP-561MC	561	560 $\mu\text{H} \pm 20\%$	0.956	1.20	0.67 (0.83)	0.85
CDRH125/LDNP-681MC	681	680 $\mu\text{H} \pm 20\%$	1.08	1.35	0.57 (0.71)	1.78
CDRH125/LDNP-821MC	821	820 $\mu\text{H} \pm 20\%$	1.17	1.40	0.51 (0.62)	1.72
CDRH125/LDNP-102MC	102	1000 $\mu\text{H} \pm 20\%$	1.62	1.95	0.46 (0.58)	0.60

※1 Measured frequency (Inductance $\leq 10\mu\text{H}$ at 7.96MHz; Inductance $> 10\mu\text{H}$ 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°C)

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ (Ta=20°C).

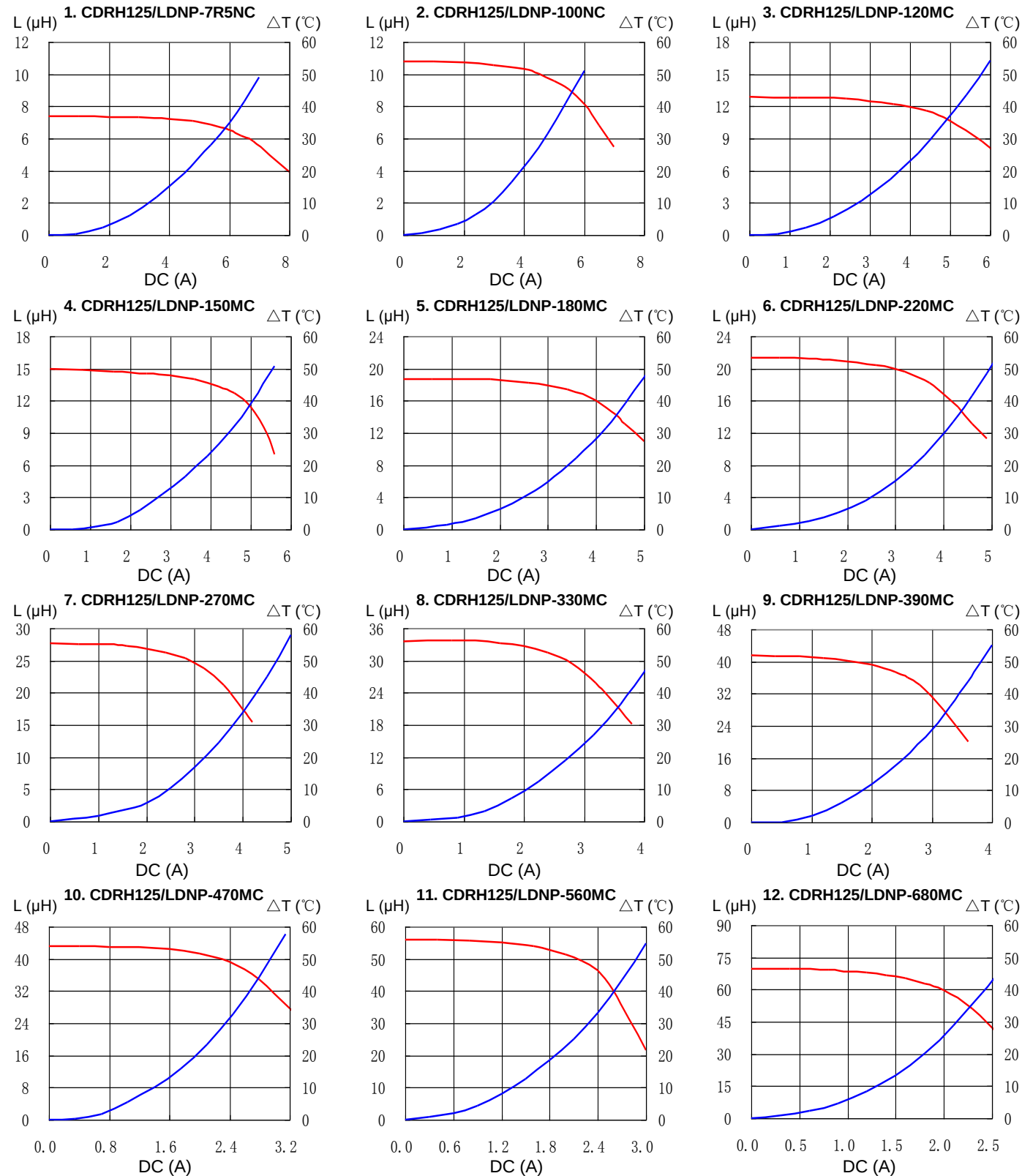
SMD Power Inductor

CDRH125/LD



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



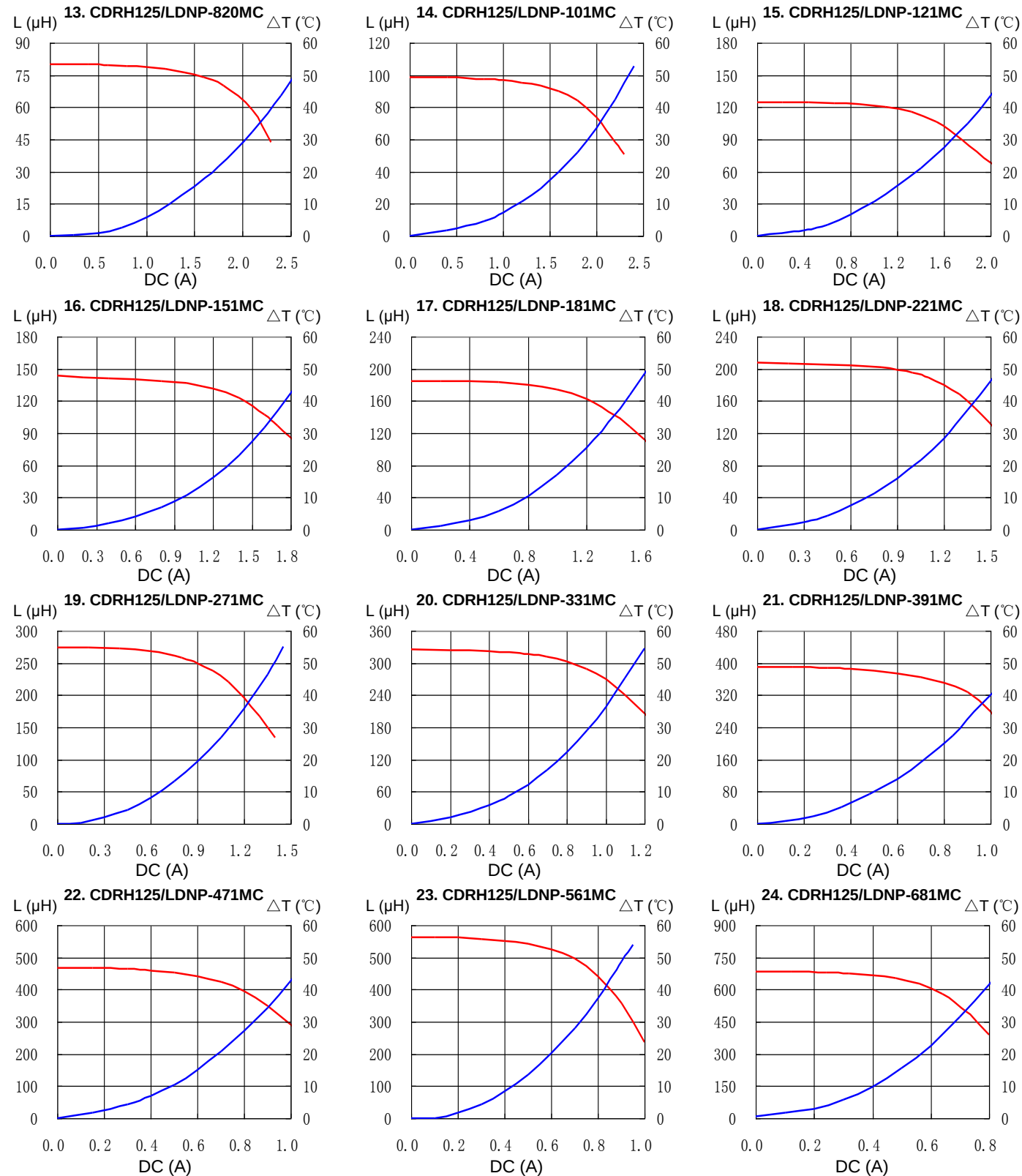
SMD Power Inductor

CDRH125/LD



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

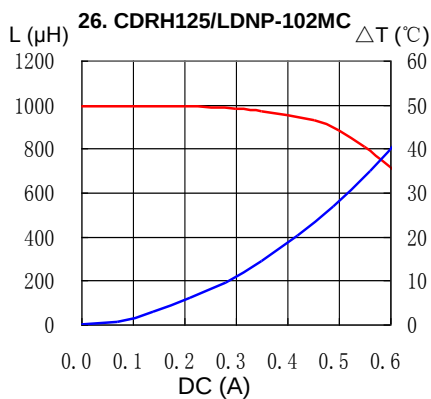
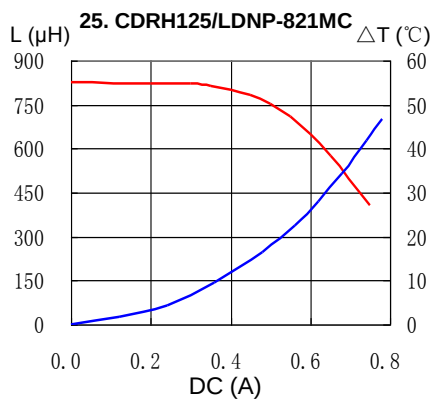


SMD Power Inductor CDRH125/LD



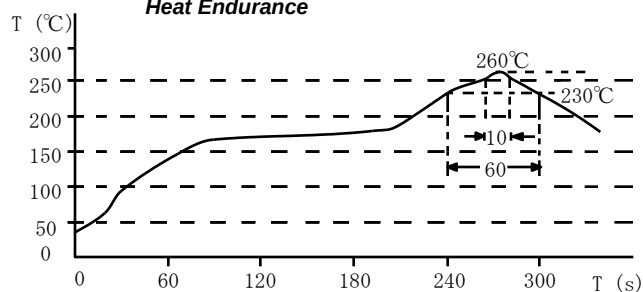
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

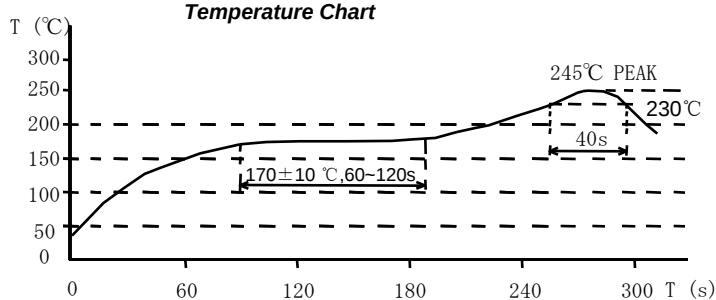


Solder Reflow Condition

Heat Endurance



Temperature Chart



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