

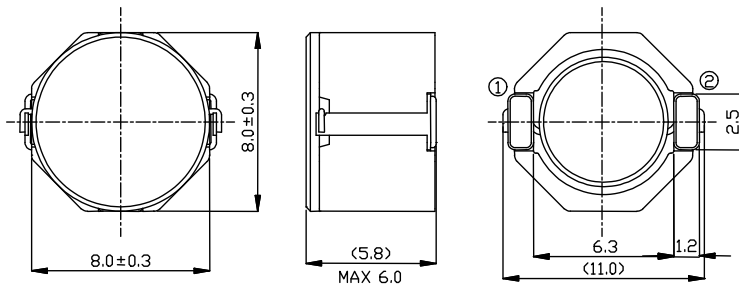
SMD Power Inductor CDRH8D58/LD



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 6.0 mm Max.
- Product weight: 1.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



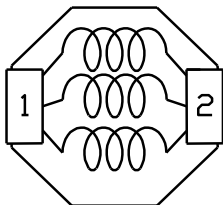
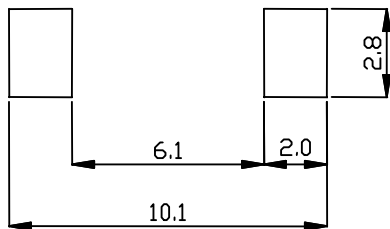
Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

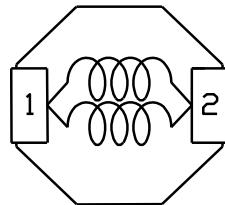
Packaging

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

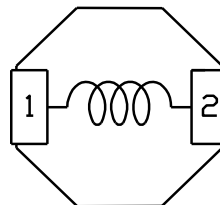
Land pattern and Schematics - [mm]



($2.8 \mu\text{H} \sim 10 \mu\text{H}$)



($15.0 \mu\text{H} \sim 47.0 \mu\text{H}$)



($68 \mu\text{H} \sim 100 \mu\text{H}$)

Applications

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

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Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH8D58/LDNP-2R8NC	2R8	2.8 \pm 30%	15.0(12)	4.7	4.0	6.90
CDRH8D58/LDNP-3R9NC	3R9	3.9 \pm 30%	16.3(13)	4.1	3.5	6.30
CDRH8D58/LDNP-5R0NC	5R0	5.0 \pm 30%	17.5(14)	3.8	3.1	6.00
CDRH8D58/LDNP-6R2NC	6R2	6.2 \pm 30%	20.0(16)	3.3	2.7	5.50
CDRH8D58/LDNP-100NC	100	10 \pm 30%	25.6(20.5)	2.6	2.2	4.50
CDRH8D58/LDNP-150NC	150	15 \pm 30%	36.3(29.0)	2.3	1.9	3.60
CDRH8D58/LDNP-220NC	220	22 \pm 30%	45.3(36.2)	1.7	1.4	3.30
CDRH8D58/LDNP-330NC	330	33 \pm 30%	65.3(52.2)	1.5	1.3	2.70
CDRH8D58/LDNP-470NC	470	47 \pm 30%	90.5(72.4)	1.2	1.0	2.20
CDRH8D58/LDNP-680NC	680	68 \pm 30%	130(104)	1.0	0.9	1.70
CDRH8D58/LDNP-101NC	101	100 \pm 30%	175(140)	0.8	0.7	1.40

※1. Inductance measuring conditions at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

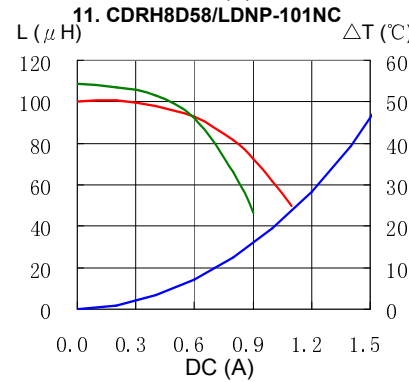
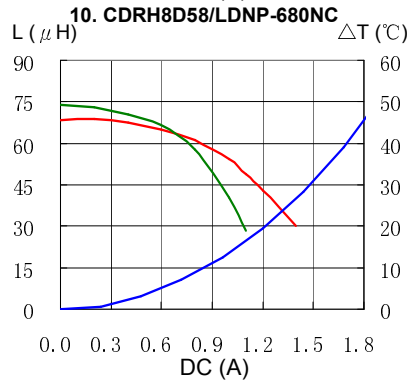
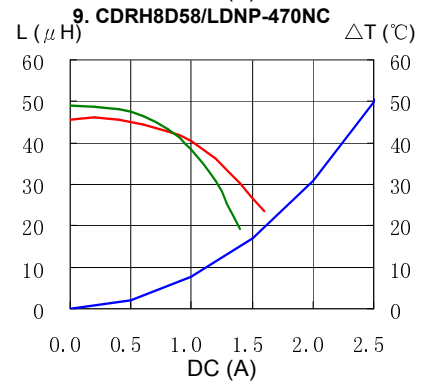
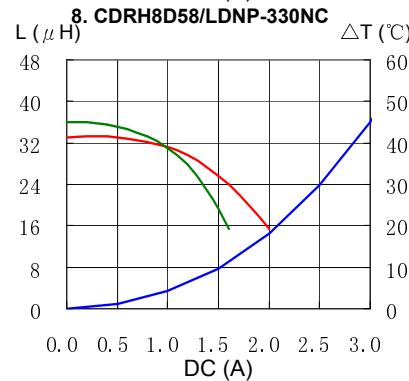
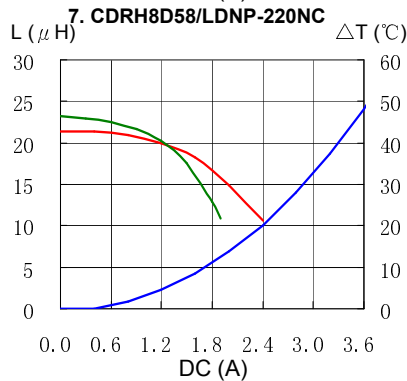
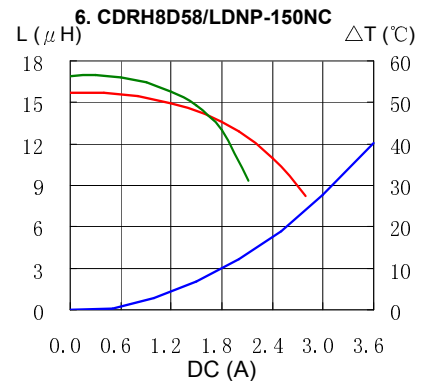
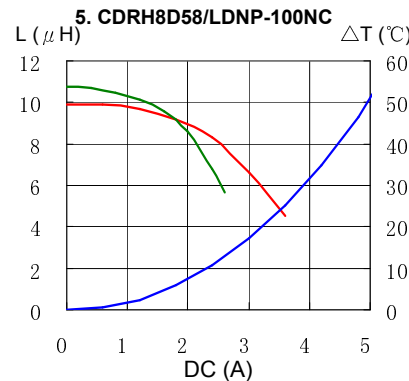
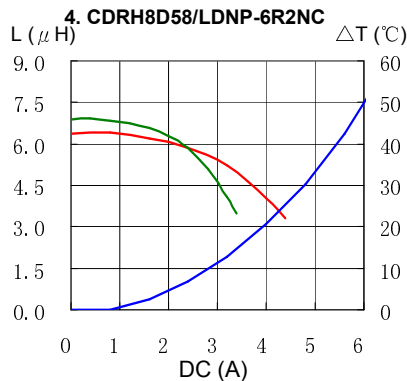
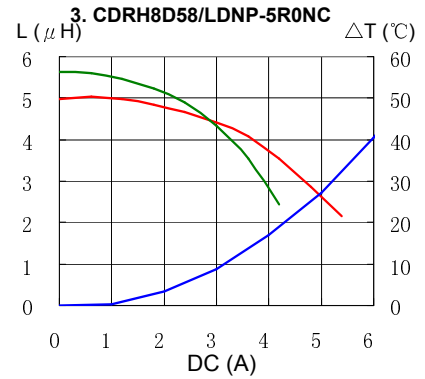
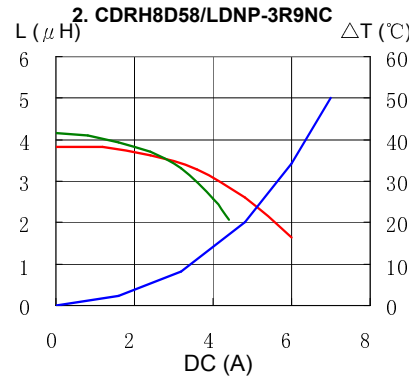
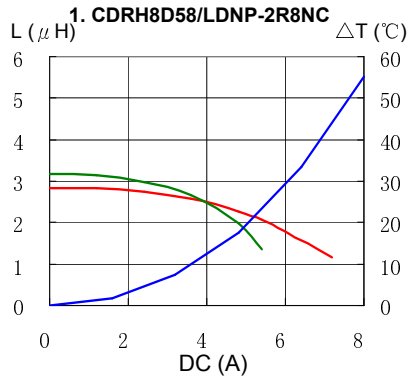
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

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Saturation Current & Temperature Rise Graph

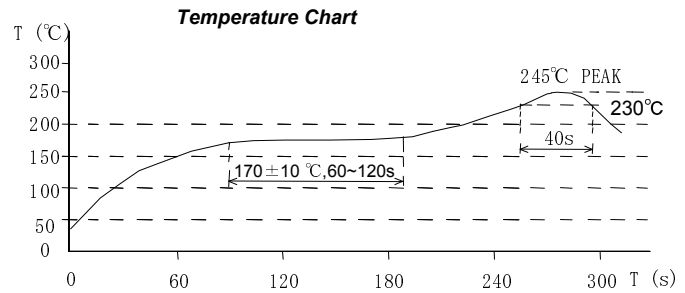
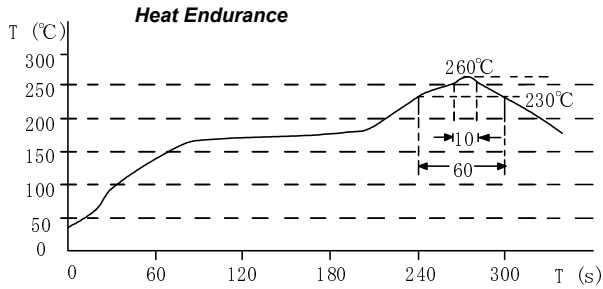
— L (20°C) — L (100°C) — ΔT



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Solder Reflow Condition



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