

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.

Environmental Data

- Operating temperature range: -40°C ~ +105°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C
- Solder reflow temperature: 260 °C peak.

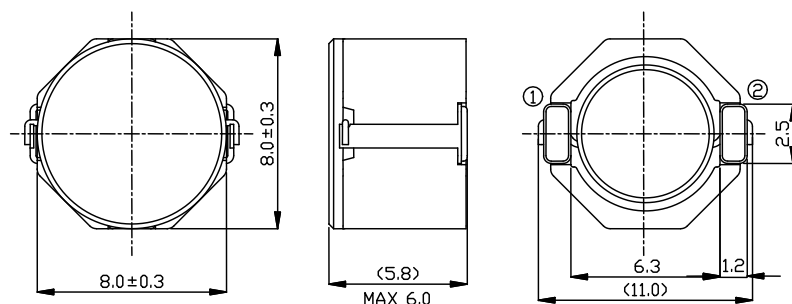
Packaging

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

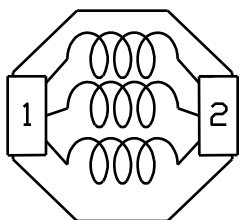
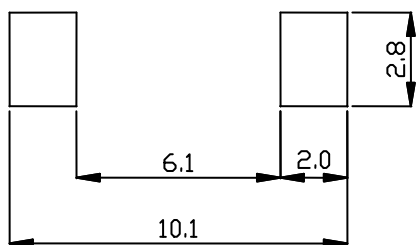
Applications

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

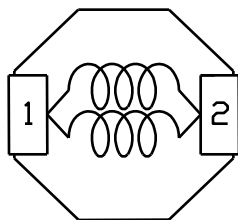
Dimension - [mm]



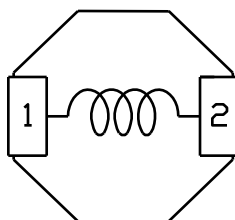
Land pattern and Schematics - [mm]



(2.8μH ~ 10μH)



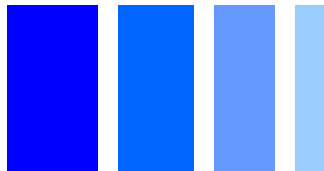
(15.0μH ~ 47.0μH)



(68μH ~ 100μH)

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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 $\Delta t = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)

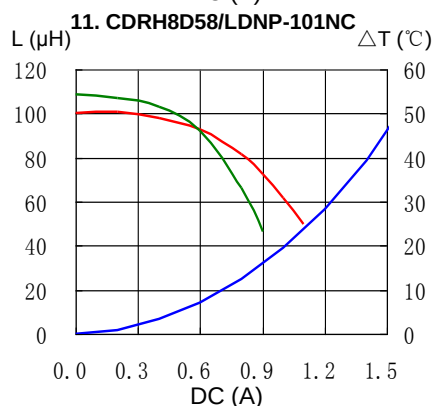
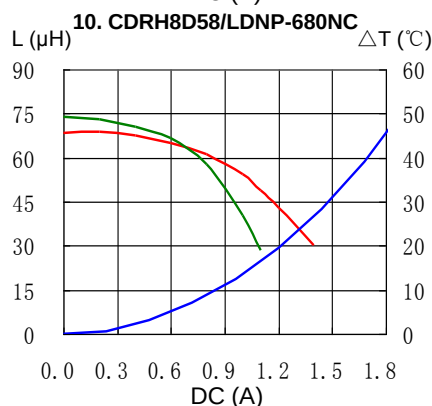
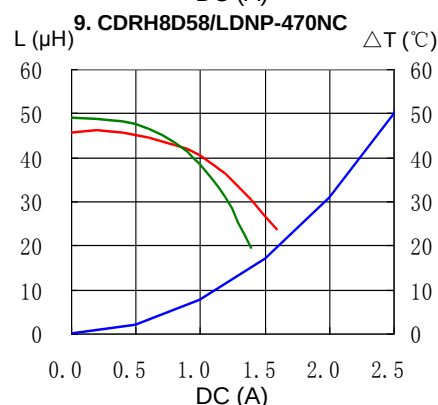
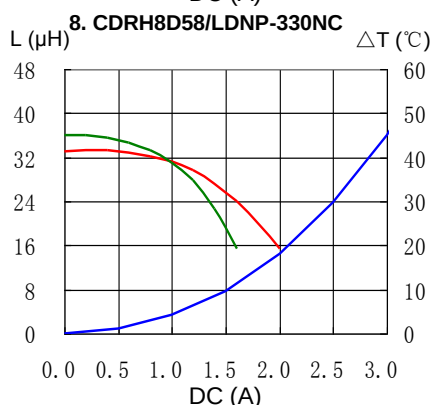
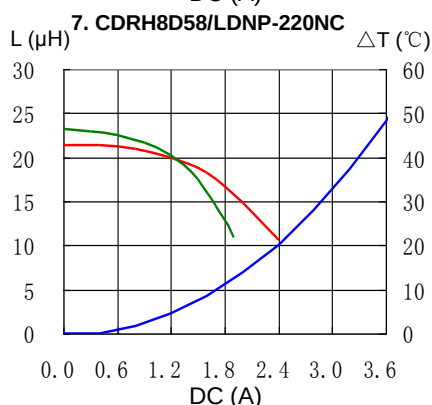
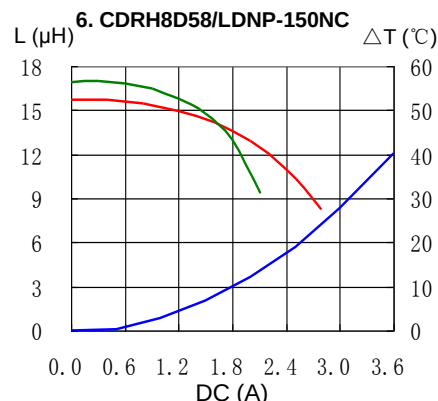
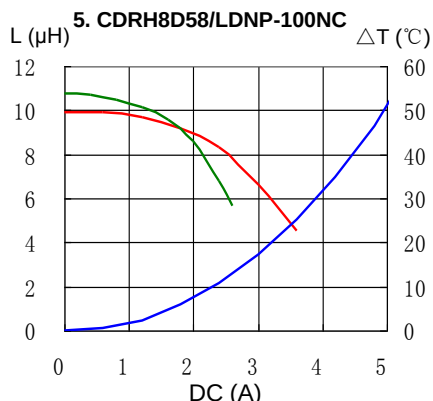
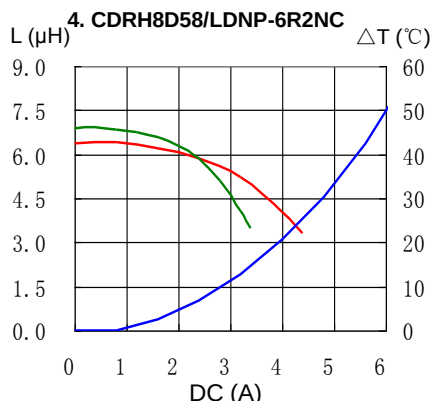
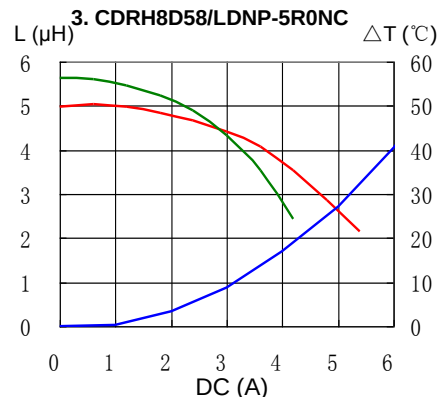
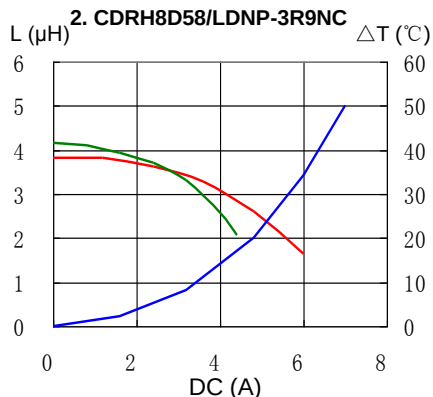
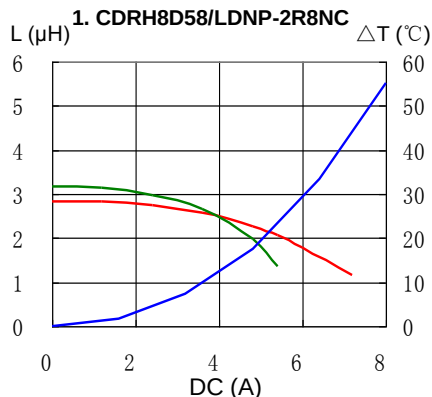
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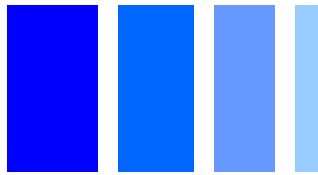


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

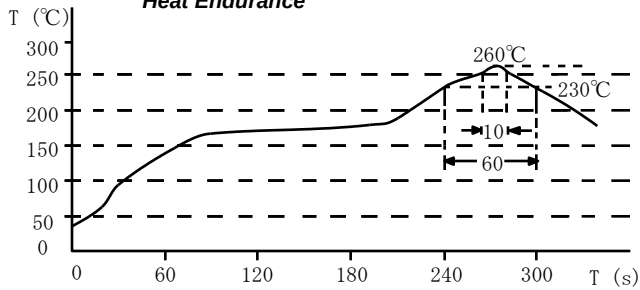


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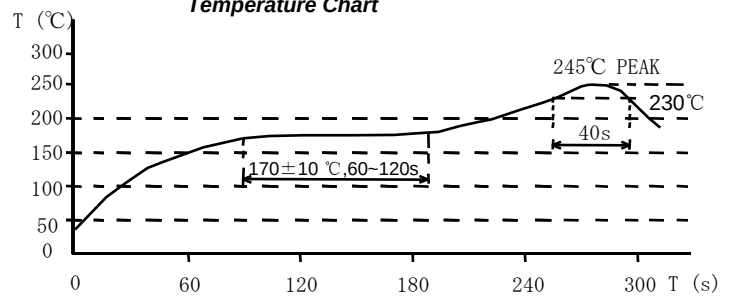


Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - <http://www.sumida.com>

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