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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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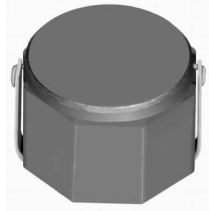
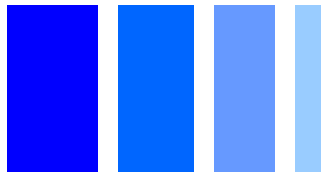
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# SMD Power Inductor CDRH8D58/LD



## 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.

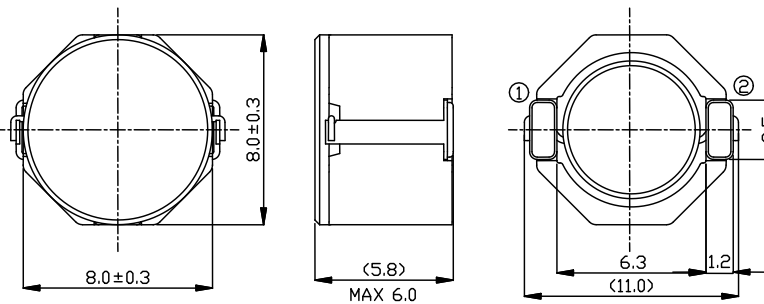
## Packaging

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

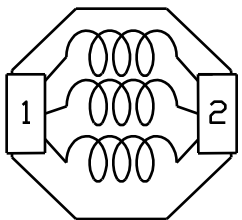
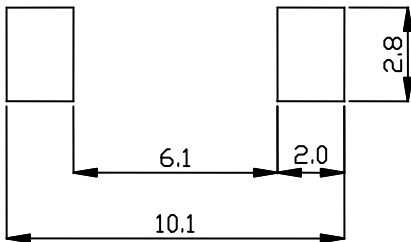
## Applications

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

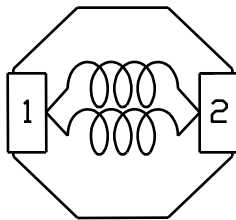
## Dimension - [mm]



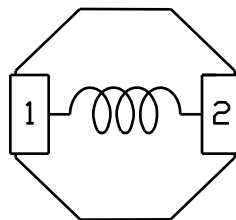
## Land pattern and Schematics - [mm]



(2.8μH~10μH)



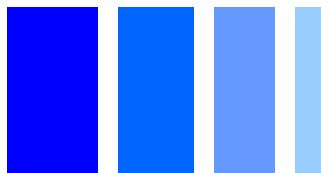
(15.0μH~47.0μH)



(68μH~100μH)

# SMD Power Inductor

## CDRH8D58/LD



### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [ within ] ※1	D.C.R. (m $\Omega$ ) 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.

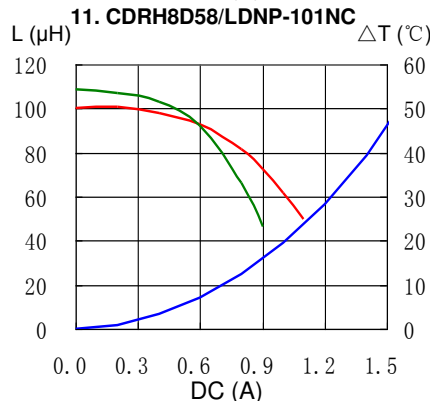
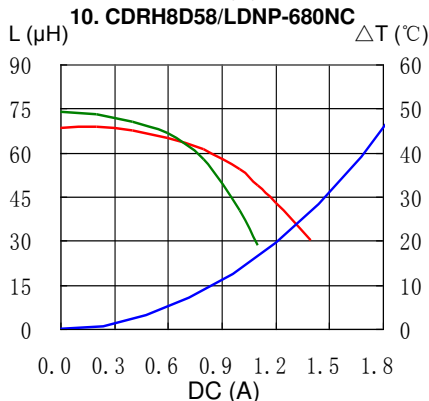
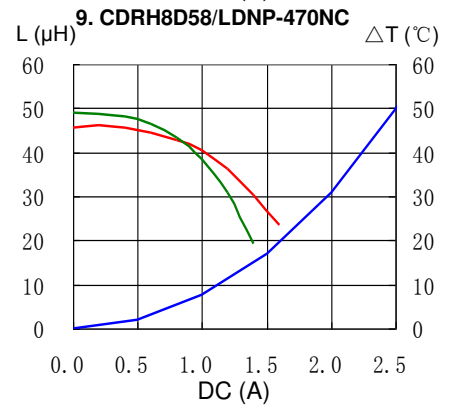
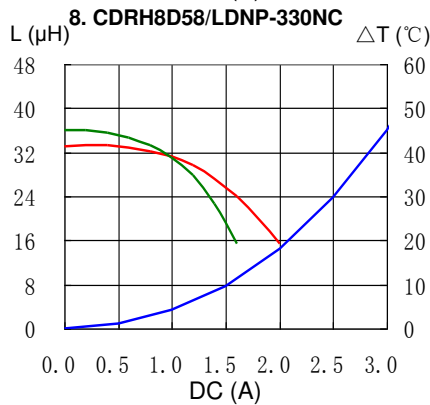
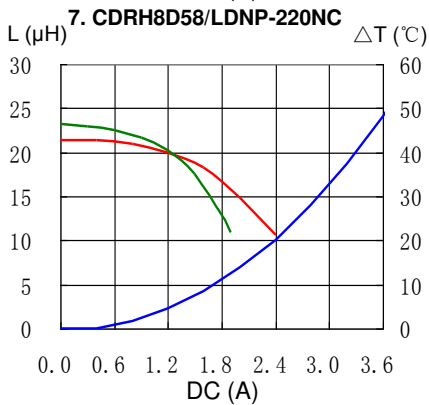
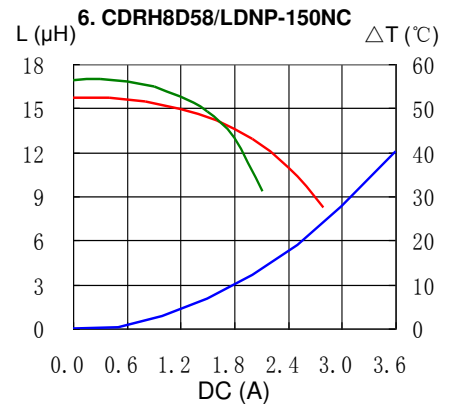
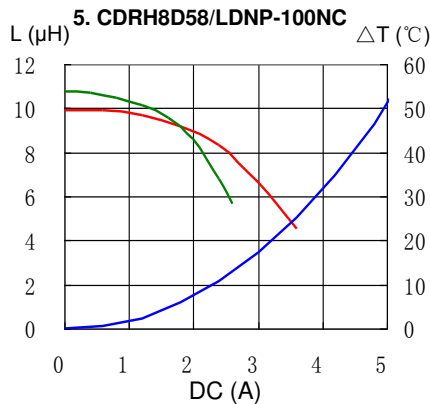
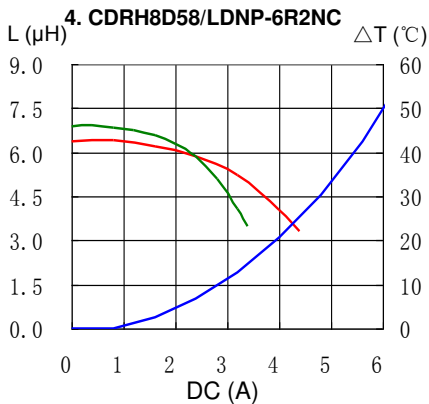
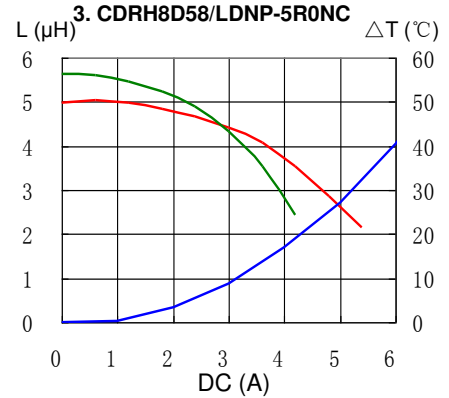
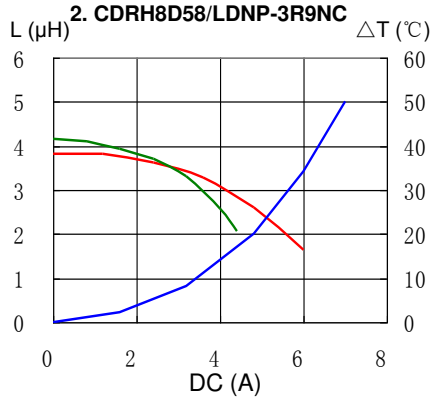
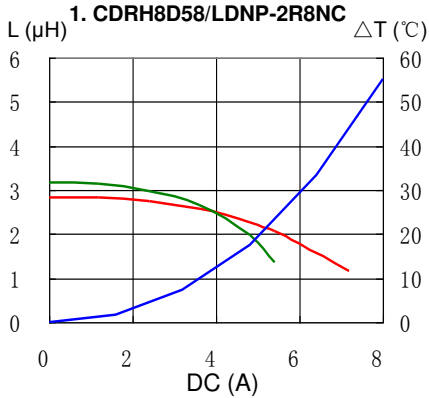
※3. Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ )

# SMD Power Inductor CDRH8D58/LD



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



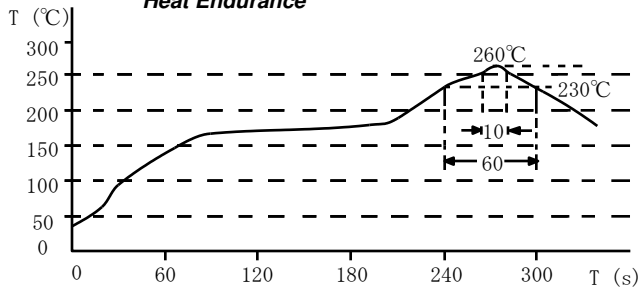


# SMD Power Inductor CDRH8D58/LD

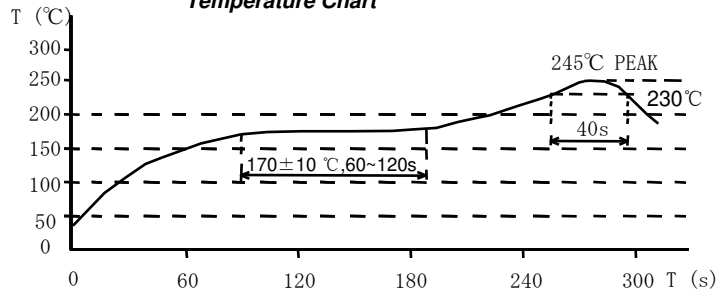


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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