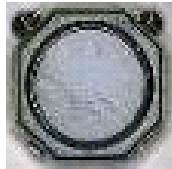


# SMD Power Inductor CDRH58D14R



Halogen Free



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.0 × 6.0 × 1.5 mm Max.
- Product weight: 0.16g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## 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.

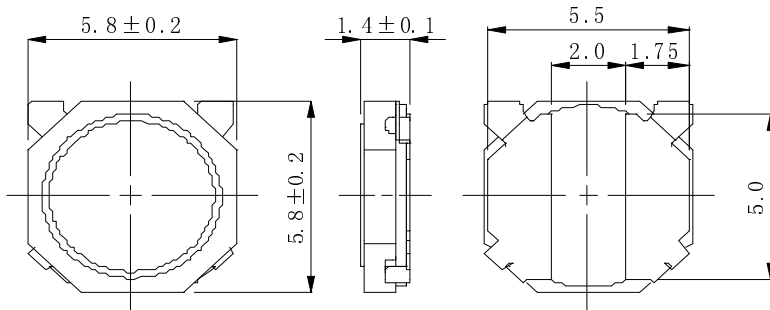
## Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 3000pcs per reel

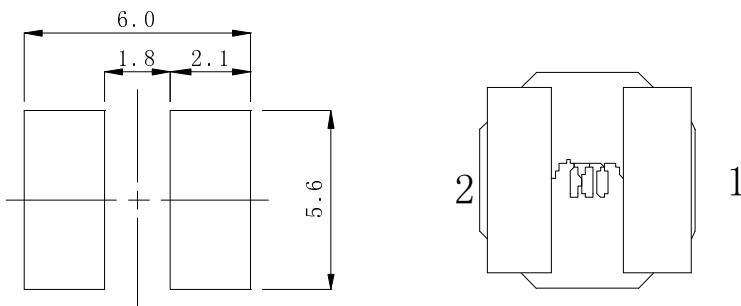
## Applications

- Ideally used in Hard Disk.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



# SMD Power Inductor CDRH58D14R



## Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [Within] ※1	D.C.R. (m $\Omega$ ) [Within] (at 20°C)	Saturation current (A) ※2	Temperature rise current (A) ※3
CDRH58D14RHF-1R0NC	A	1.0 $\pm$ 30%	16 $\pm$ 25%	3.15	4.62
CDRH58D14RHF-1R4NC	B	1.4 $\pm$ 30%	20 $\pm$ 25%	2.55	4.15
CDRH58D14RHF-2R0NC	C	2.0 $\pm$ 30%	25 $\pm$ 25%	2.13	3.75
CDRH58D14RHF-2R7NC	D	2.7 $\pm$ 30%	30 $\pm$ 25%	1.87	3.35
CDRH58D14RHF-3R3NC	E	3.3 $\pm$ 30%	44 $\pm$ 25%	1.70	2.84
CDRH58D14RHF-4R7NC	F	4.7 $\pm$ 30%	50 $\pm$ 25%	1.40	2.50
CDRH58D14RHF-6R8MC	G	6.8 $\pm$ 20%	75 $\pm$ 25%	1.16	2.06
CDRH58D14RHF-100MC	H	10 $\pm$ 20%	108 $\pm$ 20%	0.96	1.72
CDRH58D14RHF-150MC	J	15 $\pm$ 20%	159 $\pm$ 20%	0.78	1.47
CDRH58D14RHF-220MC	K	22 $\pm$ 20%	263 $\pm$ 20%	0.65	1.09
CDRH58D14RHF-330MC	L	33 $\pm$ 20%	387 $\pm$ 20%	0.54	0.88
CDRH58D14RHF-470MC	M	47 $\pm$ 20%	531 $\pm$ 20%	0.45	0.75

※1 Measuring condition Inductance at 100kHz .

※2 Saturation current: The value of DC current when the inductance decreases to 70% of its nominal.

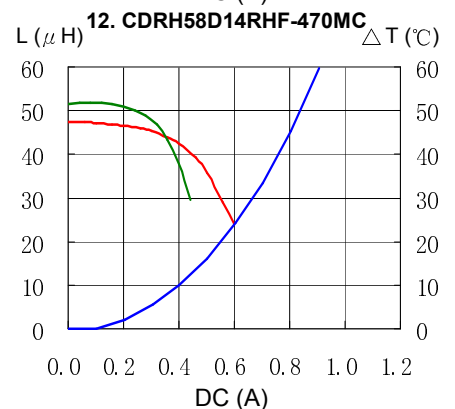
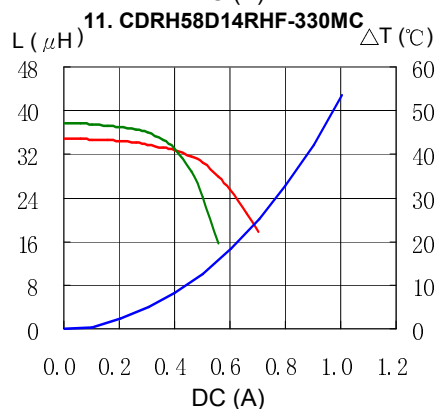
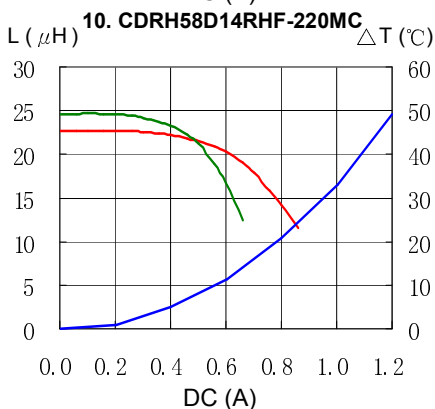
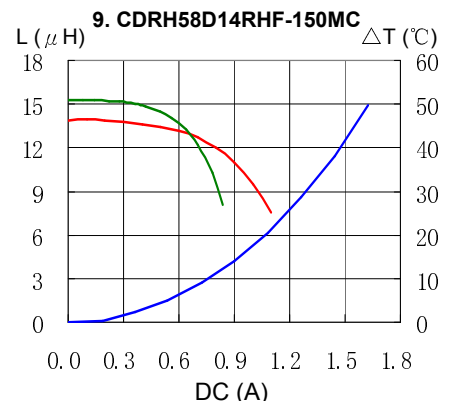
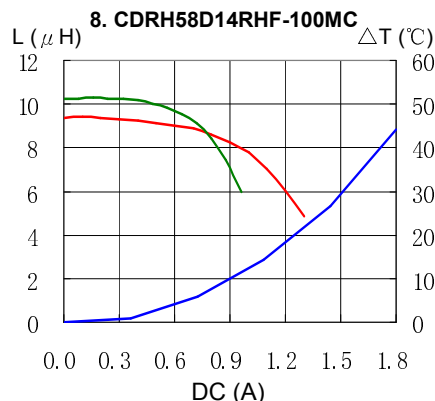
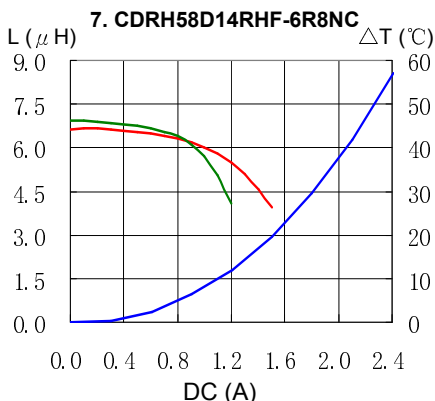
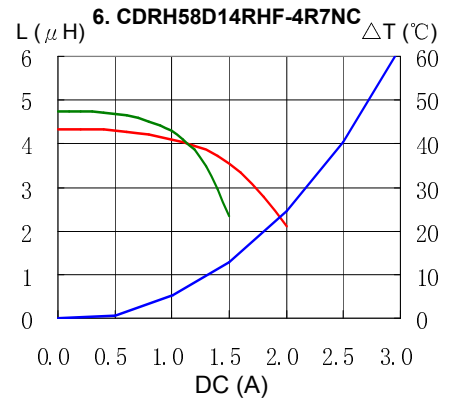
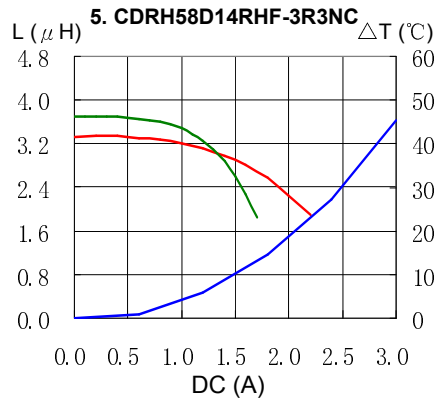
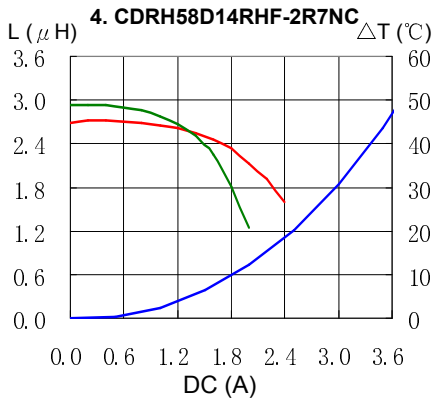
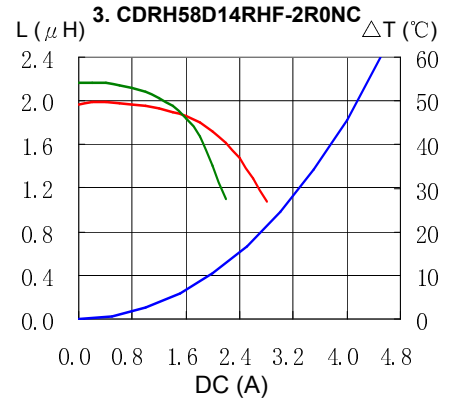
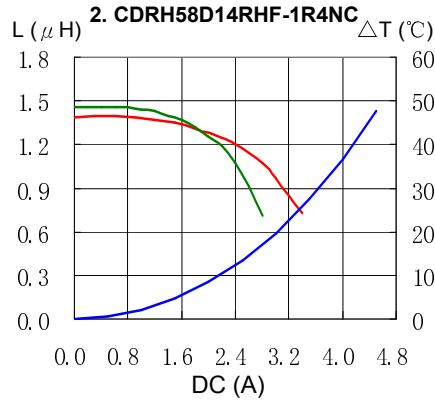
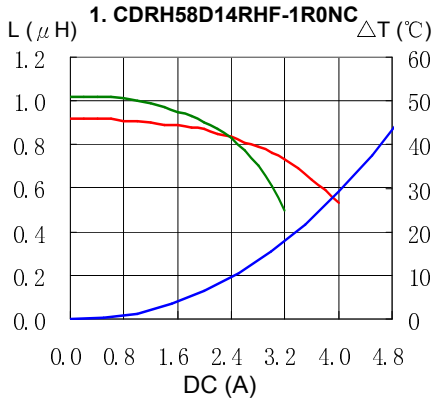
※3 Temperature rise current: The value of DC current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$ ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH58D14R



## Saturation Current & Temperature Rise Graph

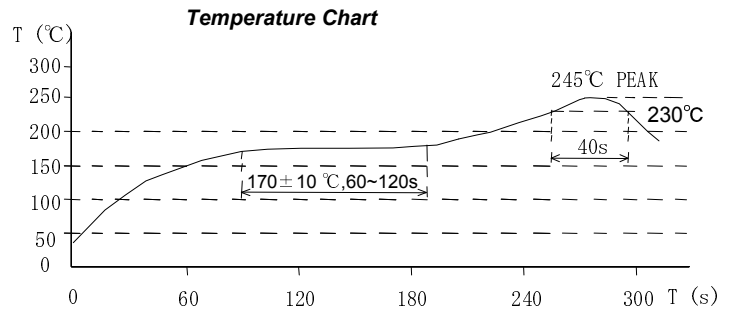
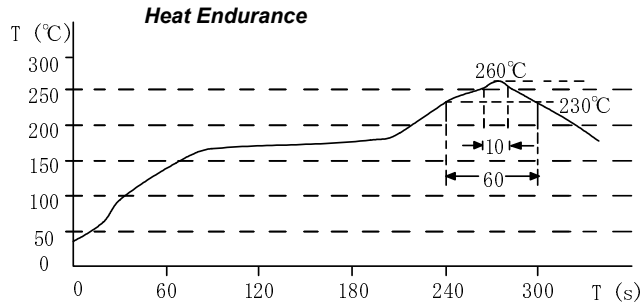
— L (20°C) — L (105°C) —  $\Delta T$



# SMD Power Inductor CDRH58D14R



## Solder Reflow Condition



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