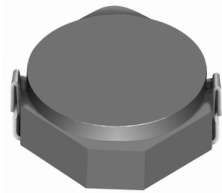


# SMD Power Inductor CDRH4D14/LD



Halogen Free



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.8 × 4.8 × 1.5 mm Max.
- Product weight: 98mg(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.

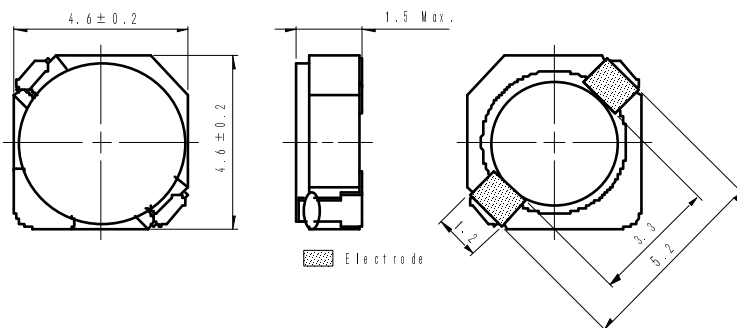
## Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1000pcs per reel

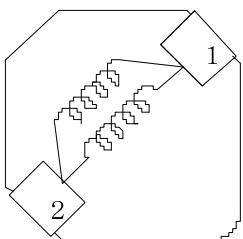
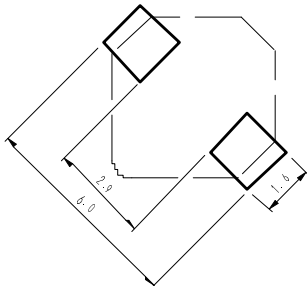
## Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, etc as DC-DC converter inductors.

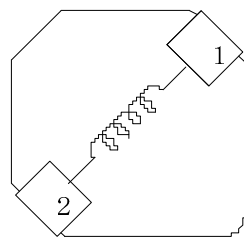
## Dimension - [mm]



## Land pattern and Schematics - [mm]



(2.2 μH~10 μH)



(15 μH~220 μH)

# SMD Power Inductor CDRH4D14/LD



## Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [within] ※1	D.C.R.( $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH4D14LDNP-2R2NC	2R2	2.2 $\pm$ 30%	40m(32m)	1.05	2.60
CDRH4D14LDNP-3R0NC	3R0	3.0 $\pm$ 30%	50m(40m)	0.98	2.30
CDRH4D14LDNP-4R7NC	4R7	4.7 $\pm$ 30%	66m(53m)	0.78	1.90
CDRH4D14LDNP-6R8NC	6R8	6.8 $\pm$ 30%	96m(77m)	0.64	1.55
CDRH4D14LDNP-100MC	100	10 $\pm$ 20%	135m(110m)	0.52	1.08
CDRH4D14LDNP-150MC	150	15 $\pm$ 20%	210m(170m)	0.42	0.88
CDRH4D14LDNP-220MC	220	22 $\pm$ 20%	300m(240m)	0.35	0.73
CDRH4D14LDNP-330MC	330	33 $\pm$ 20%	420m(340m)	0.28	0.56
CDRH4D14LDNP-470MC	470	47 $\pm$ 20%	570m(460m)	0.24	0.48
CDRH4D14LDNP-680MC	680	68 $\pm$ 20%	870m(700m)	0.21	0.41
CDRH4D14LDNP-101MC	101	100 $\pm$ 20%	1.35(1.10)	0.16	0.32
CDRH4D14LDNP-151MC	151	150 $\pm$ 20%	2.05(1.65)	0.14	0.23
CDRH4D14LDNP-221MC	221	220 $\pm$ 20%	2.65(2.15)	0.11	0.20

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

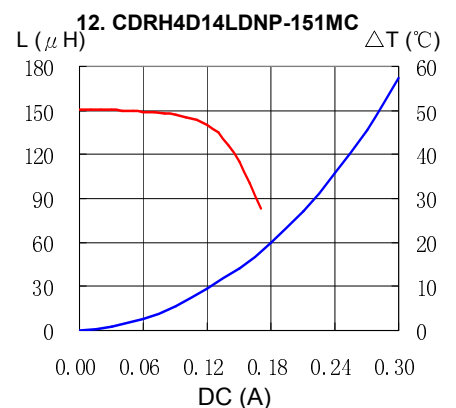
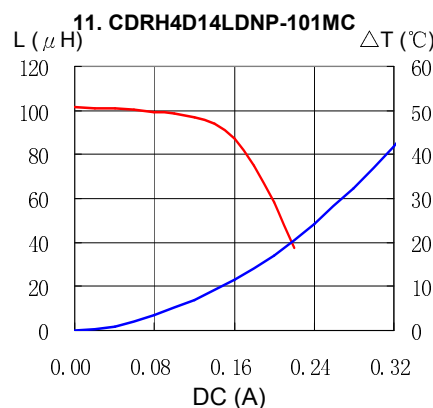
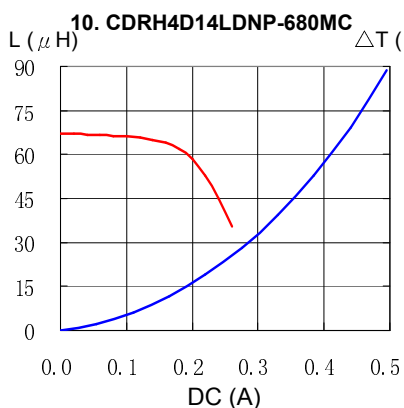
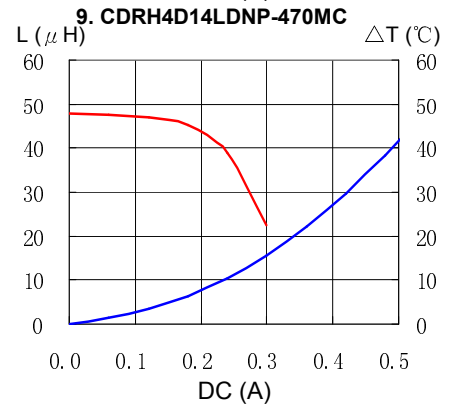
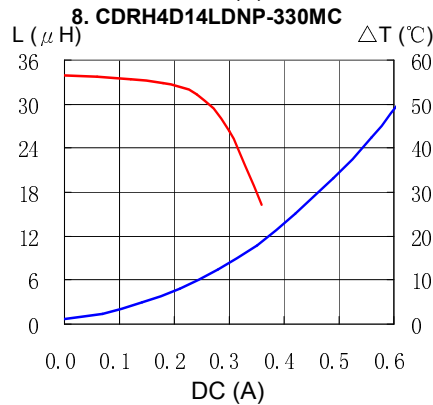
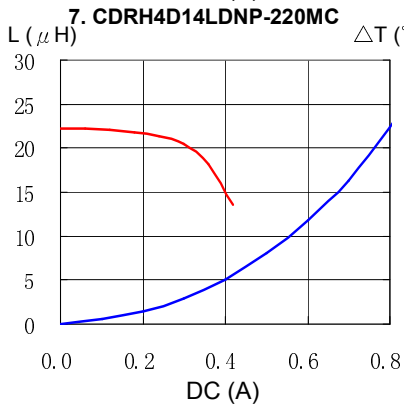
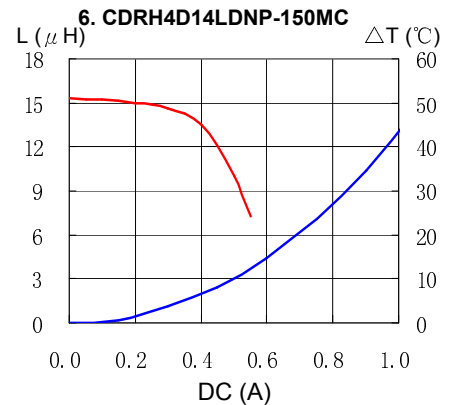
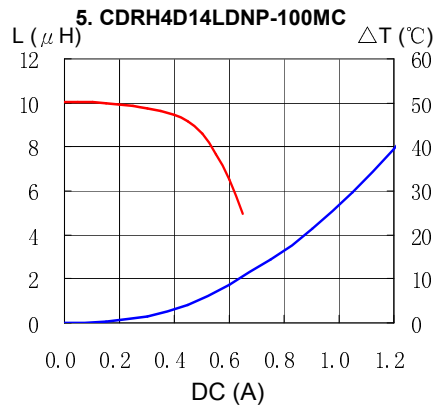
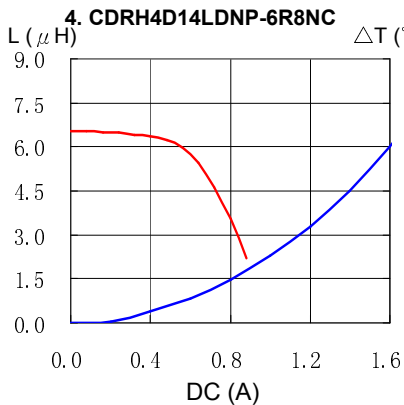
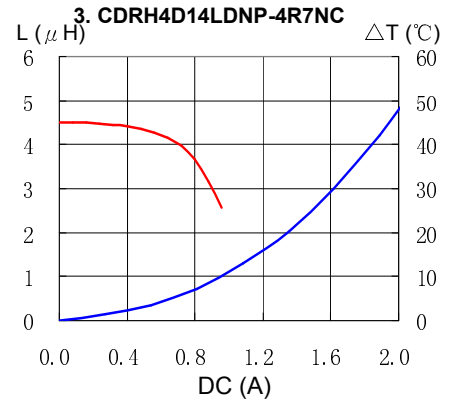
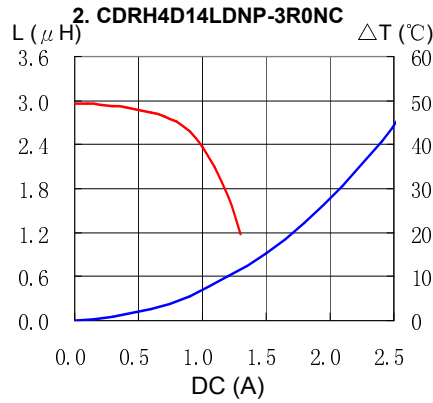
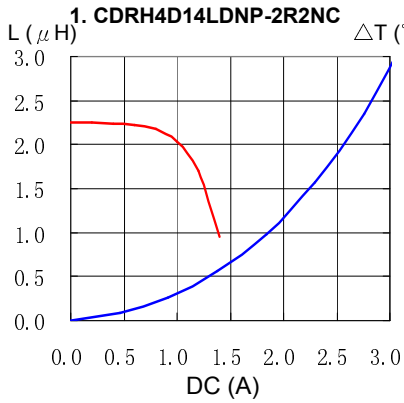
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH4D14/LD



## Saturation Current & Temperature Rise Graph

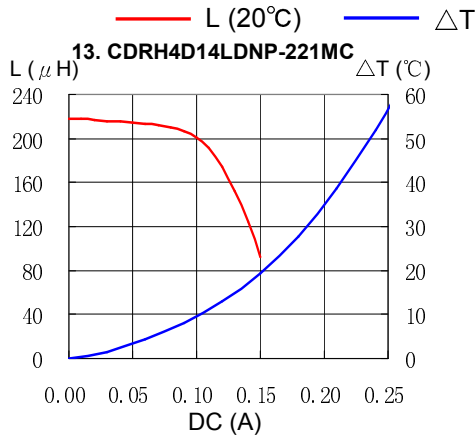
— L (20°C) —  $\Delta T$



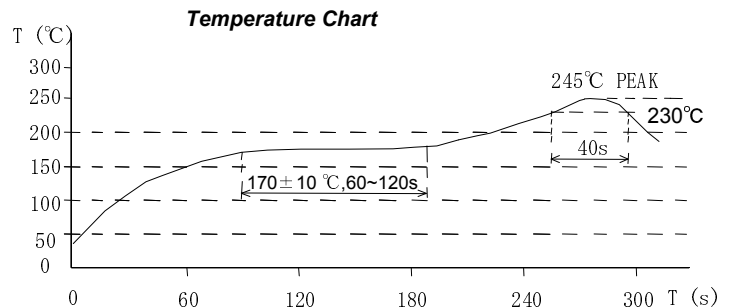
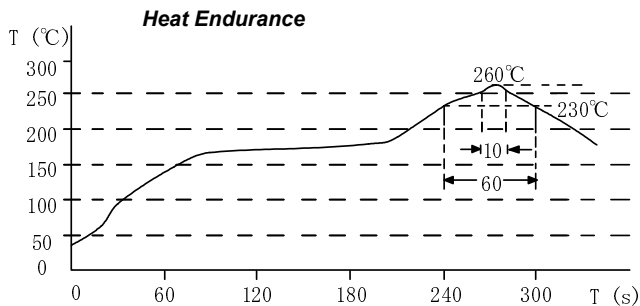
# SMD Power Inductor CDRH4D14/LD



## Saturation Current & Temperature Rise Graph



## Solder Reflow Condition



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