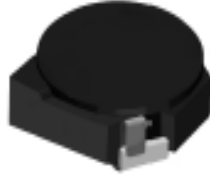


# SMD Power Inductor CDRH5D16F/LD



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.5 × 5.5 × 1.8 mm Max.
- Product weight: 163mg(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.

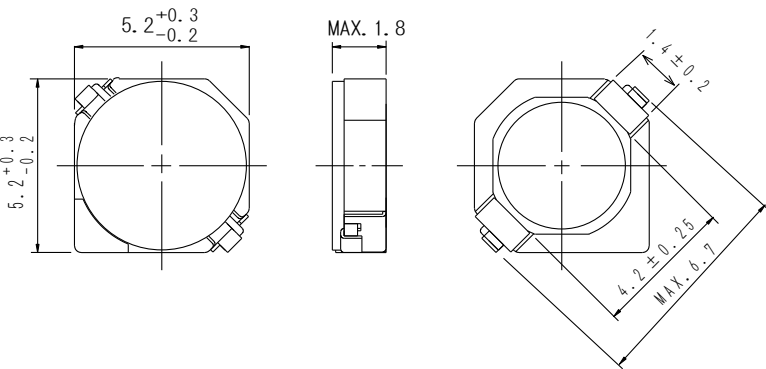
## Packaging

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

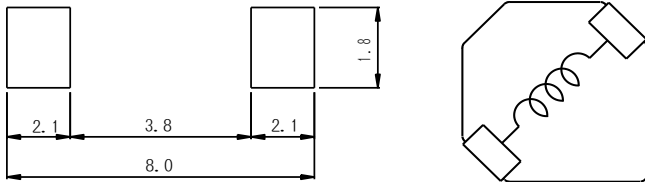
## Applications

- Ideally used in Game Machine, Notebook PC, PDA, DSC/DVC, etc. as DC-DC converter inductors.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [ within ] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) ( 20°C )	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH5D16F/LDNP-2R2NC	2R2	$2.2 \pm 25\%$	27.0(22.5)	1.80	3.80
CDRH5D16F/LDNP-2R9NC	2R9	$2.9 \pm 25\%$	32.0(26.7)	1.60	3.60
CDRH5D16F/LDNP-4R7NC	4R7	$4.7 \pm 25\%$	37.0(31.0)	1.20	2.90
CDRH5D16F/LDNP-6R8NC	6R8	$6.8 \pm 25\%$	50.0(42.0)	1.05	2.40
CDRH5D16F/LDNP-100NC	100	$10 \pm 25\%$	78.6(65.5)	0.92	1.90
CDRH5D16F/LDNP-150NC	150	$15 \pm 25\%$	110.0(92.0)	0.70	1.50
CDRH5D16F/LDNP-220NC	220	$22 \pm 25\%$	168.0(140.0)	0.61	1.20
CDRH5D16F/LDNP-330NC	330	$33 \pm 25\%$	267.0(223.0)	0.50	0.90
CDRH5D16F/LDNP-470NC	470	$47 \pm 25\%$	363.0(303.0)	0.40	0.82

※1. Inductance measuring condition: at 100kHz.

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

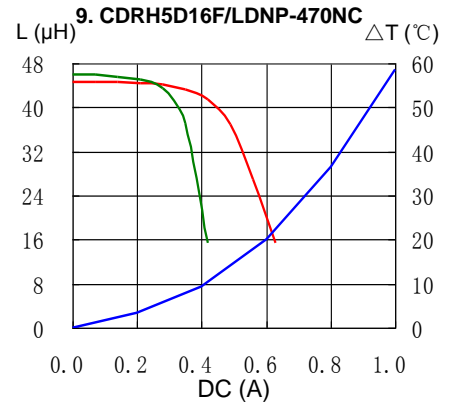
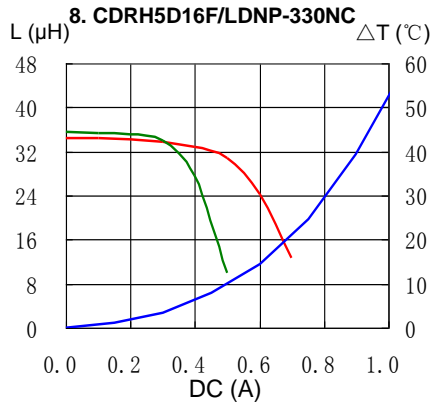
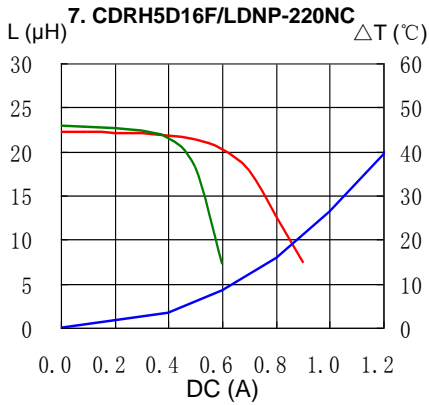
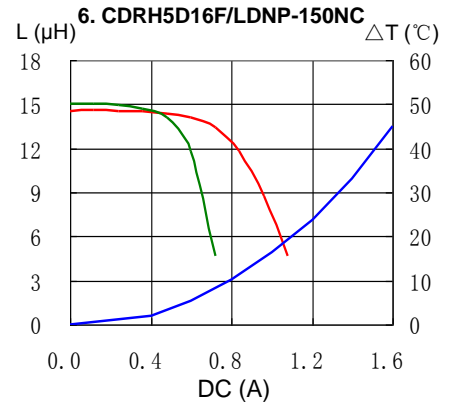
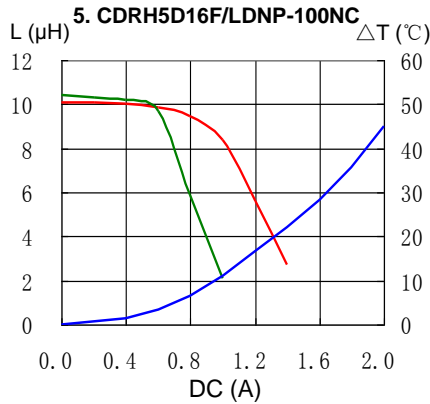
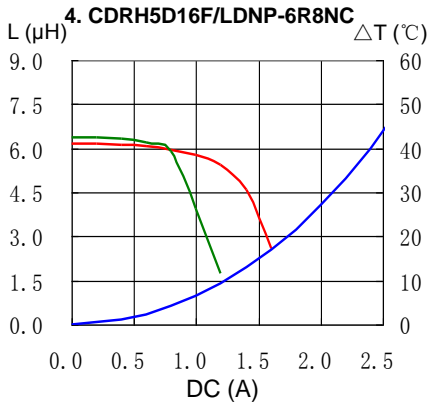
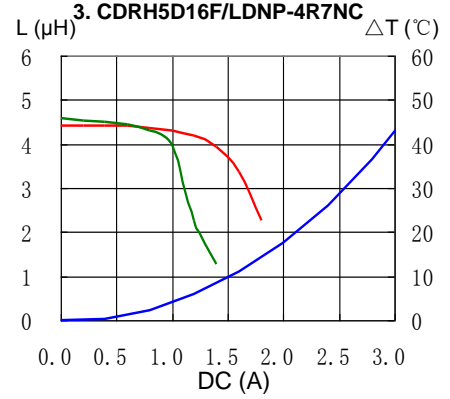
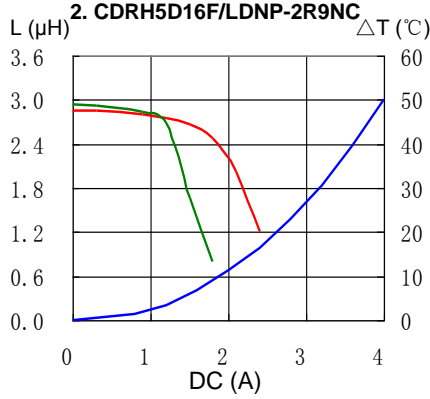
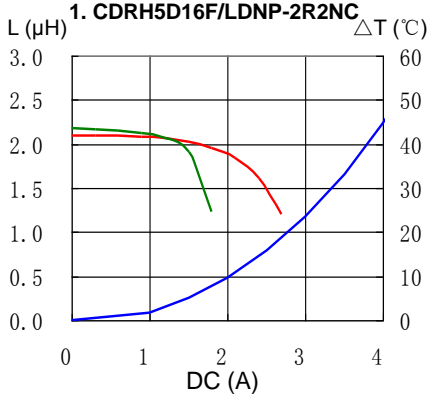
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

# SMD Power Inductor CDRH5D16F/LD



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

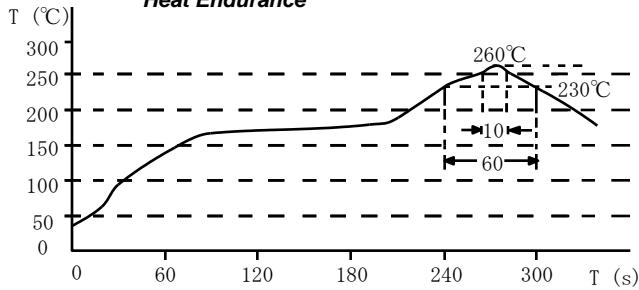


# SMD Power Inductor CDRH5D16F/LD

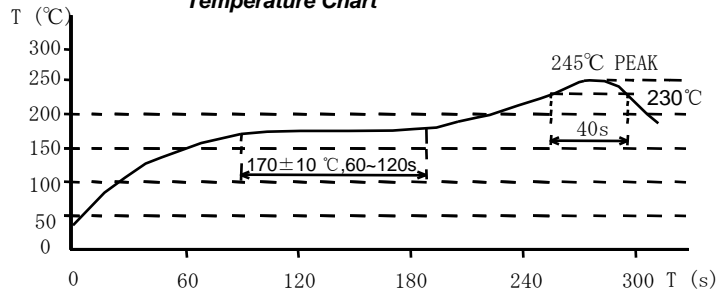


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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