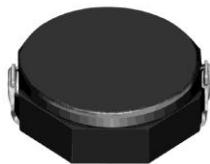




**THE DATASHEET OF  
CDRH8D28HPNP-220NC**



# SMD Power Inductor CDRH8D28HP



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 3.0 mm Max.
- Product weight: 0.57g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

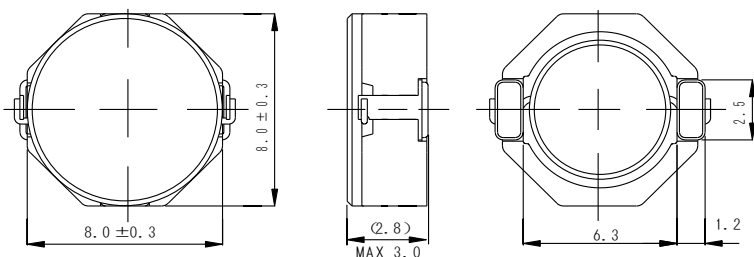
## Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

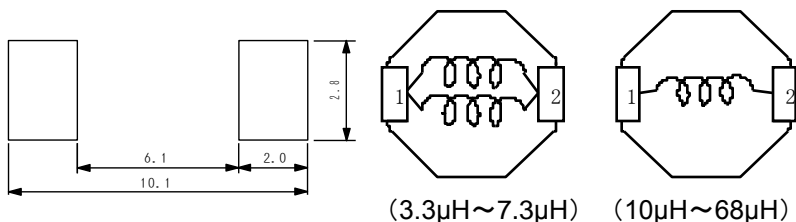
## Packaging

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Applications

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

## Electrical Characteristics

Part Name	Stamp	Inductance (µH) [ within ] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH8D28HPNP-3R3NC	3R3H	3.3 ± 30%	35(27)	6.50	4.60	3.80
CDRH8D28HPNP-4R7NC	4R7H	4.7 ± 30%	40(31)	4.50	3.60	3.60
CDRH8D28HPNP-7R3NC	7R3H	7.3 ± 30%	66(51)	4.00	3.10	2.40
CDRH8D28HPNP-100NC	100H	10 ± 30%	78(60)	3.40	2.50	2.10
CDRH8D28HPNP-150NC	150H	15 ± 30%	125(96)	2.80	2.30	1.70
CDRH8D28HPNP-220NC	220H	22 ± 30%	182(140)	2.50	1.90	1.35
CDRH8D28HPNP-330NC	330H	33 ± 30%	286(220)	1.90	1.60	1.10
CDRH8D28HPNP-470NC	470H	47 ± 30%	345(265)	1.60	1.36	1.00
CDRH8D28HPNP-680NC	680H	68 ± 30%	520(400)	1.30	1.10	0.80

※1. Inductance measuring conditions at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

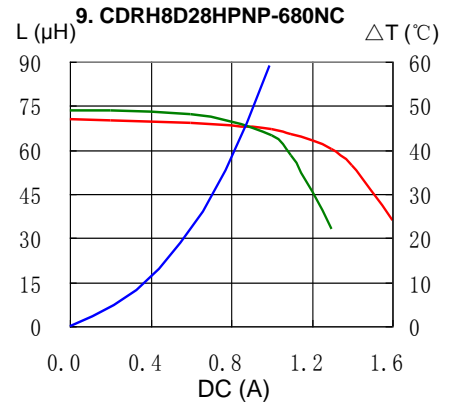
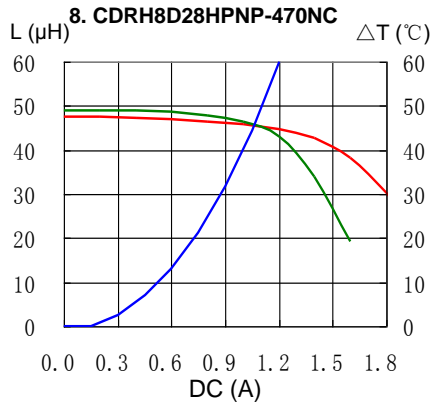
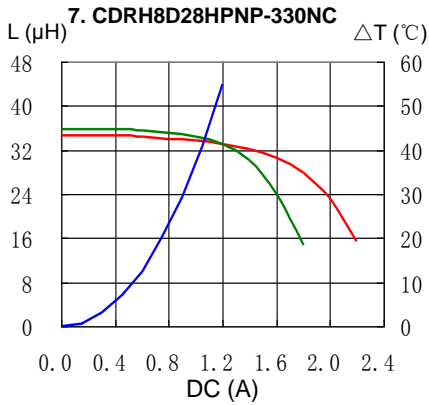
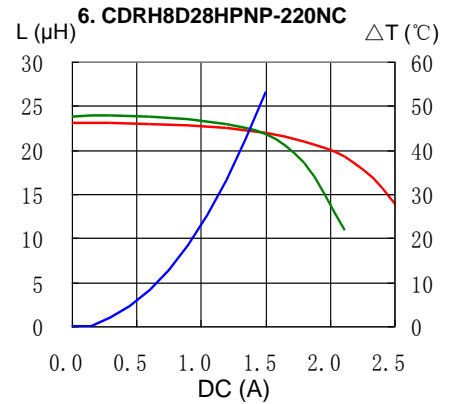
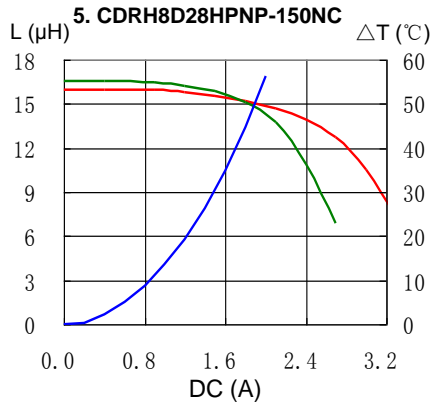
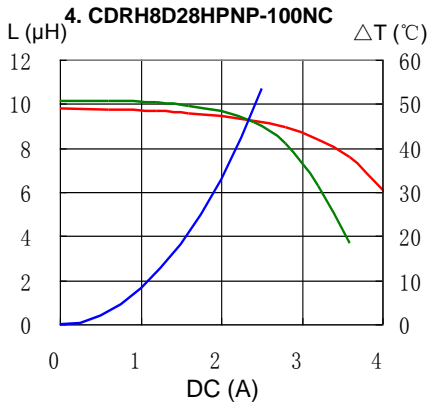
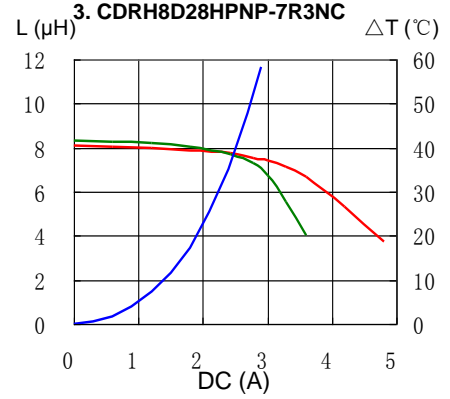
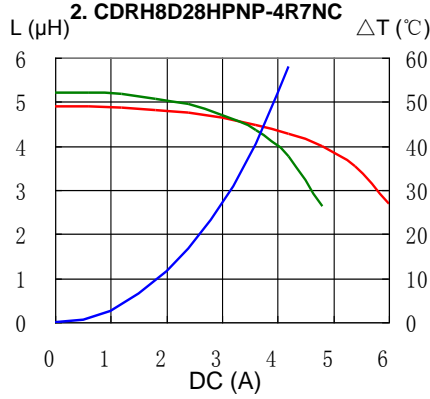
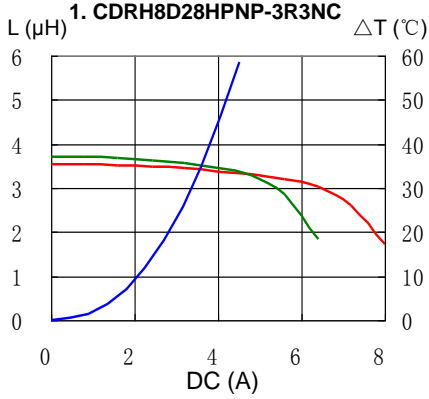
※3. Temperature rise current: The DC current at which the temperature rise is  $\Delta t = 40^\circ\text{C}$ . ( $T_a = 20^\circ\text{C}$ )

# SMD Power Inductor CDRH8D28HP



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

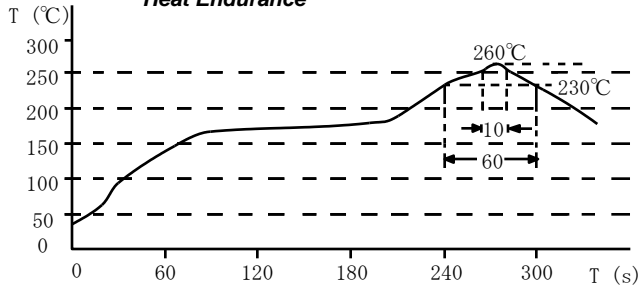


# SMD Power Inductor CDRH8D28HP

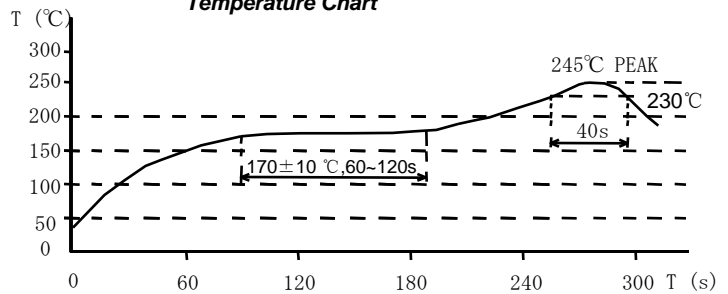


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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