

# SMD Power Inductor CDRH4D28C



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.1 × 5.1 × 3.0 mm Max.
- Product weight: 0.21g(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.

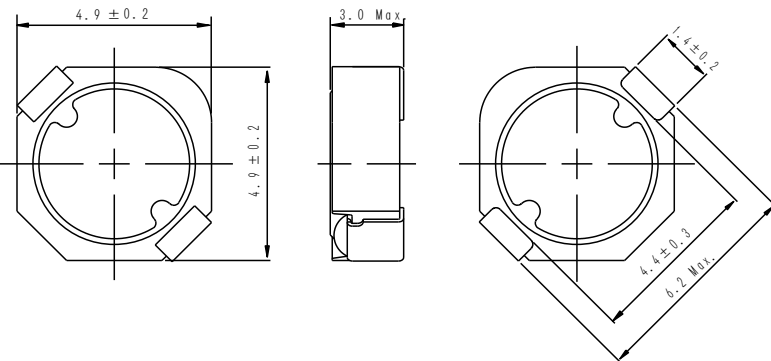
## Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000pcs per reel

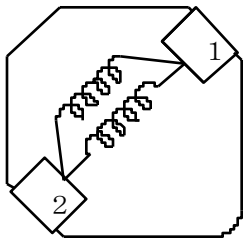
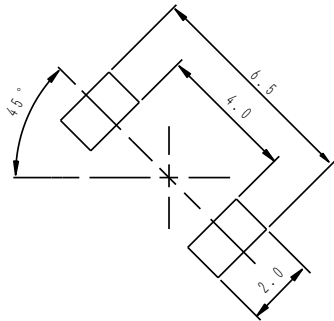
## Applications

- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors.

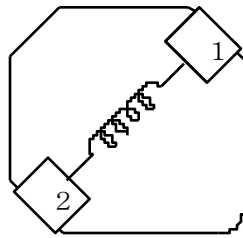
## Dimension - [mm]



## Land pattern and Schematics - [mm]



(1.1µH ~ 6.3µH)



(10µH ~ 100µH)

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## Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu\text{H}$ ) [within] ※1	D.C.R.( $\Omega$ ) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH4D28CNP-1R1PC	A	1.1 $\pm$ 25%	22m(17.5m)	3.80
CDRH4D28CNP-2R0PC	B	2.0 $\pm$ 25%	29m(23.0m)	2.60
CDRH4D28CNP-3R2PC	C	3.2 $\pm$ 25%	42m(33.3m)	2.30
CDRH4D28CNP-4R7PC	D	4.7 $\pm$ 25%	63m(50.0m)	1.80
CDRH4D28CNP-6R3PC	E	6.3 $\pm$ 25%	94m(75.0m)	1.30
CDRH4D28CNP-100PC	F	10 $\pm$ 25%	106m(85.0m)	1.26
CDRH4D28CNP-150PC	G	15 $\pm$ 25%	137m(110m)	1.05
CDRH4D28CNP-220PC	H	22 $\pm$ 25%	207m(166m)	0.85
CDRH4D28CNP-330PC	I	33 $\pm$ 25%	331m(265m)	0.70
CDRH4D28CNP-470PC	J	47 $\pm$ 25%	510m(408m)	0.54
CDRH4D28CNP-680PC	K	68 $\pm$ 25%	625m(500m)	0.49
CDRH4D28CNP-101PC	L	100 $\pm$ 25%	948m(758m)	0.40

※1. Inductance measuring condition: at 100kHz.

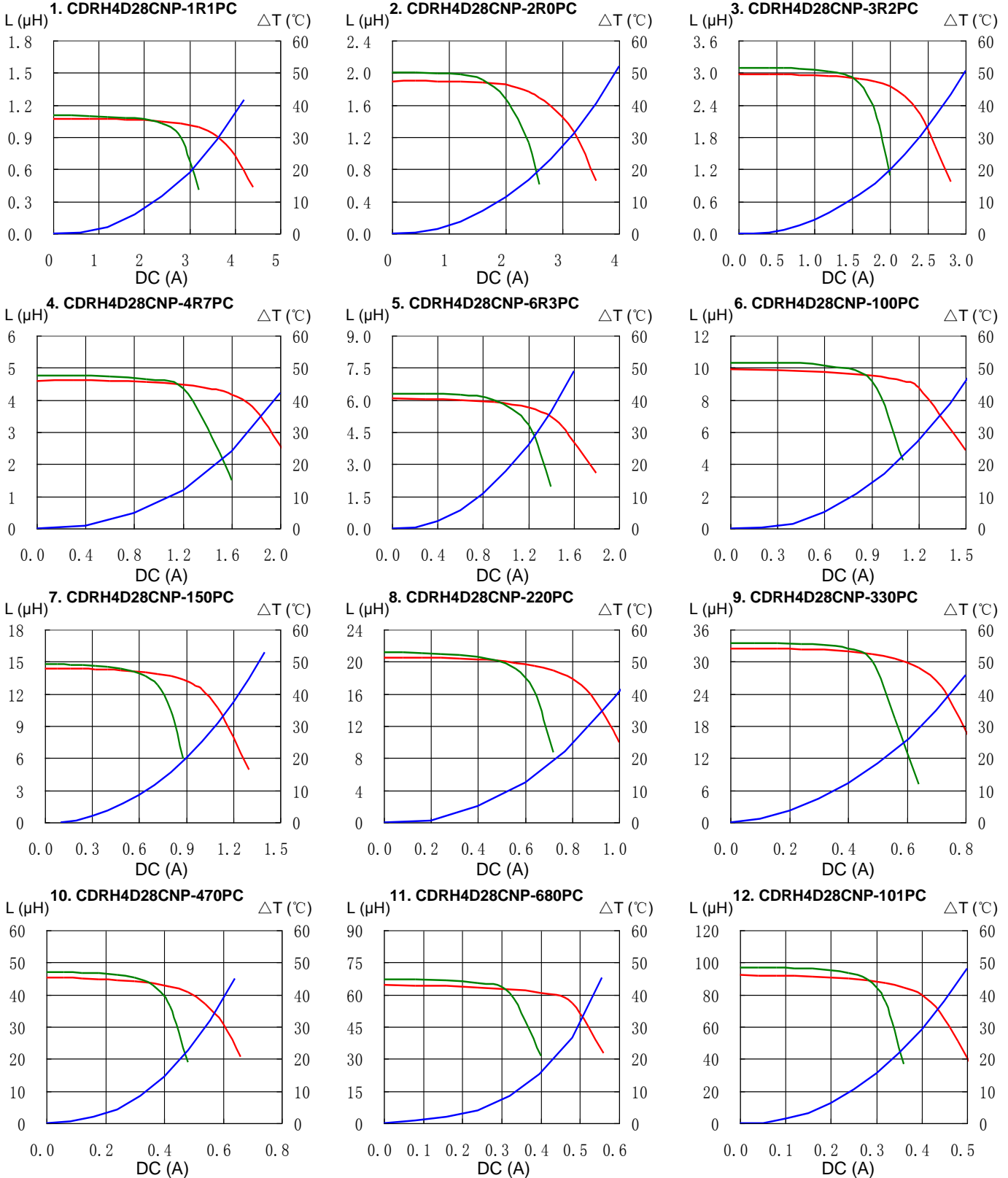
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

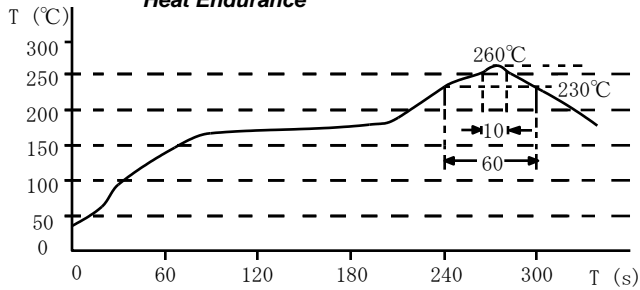


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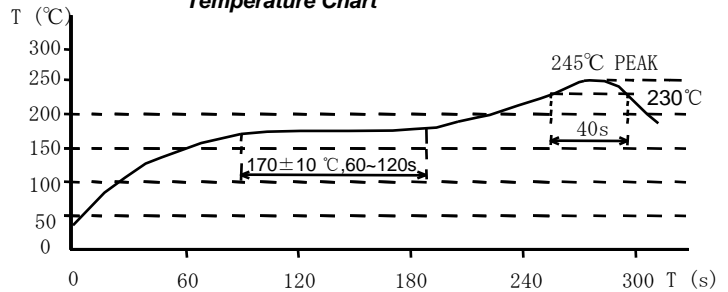


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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