

# SMD Power Inductor CDRH4D18C



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.1 × 5.1 × 2.0 mm Max.
- Product weight: 135mg(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.

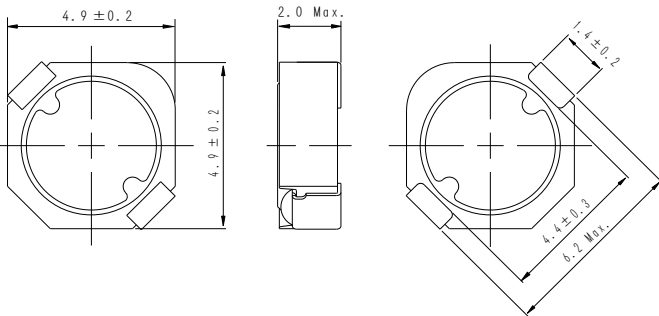
## Packaging

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

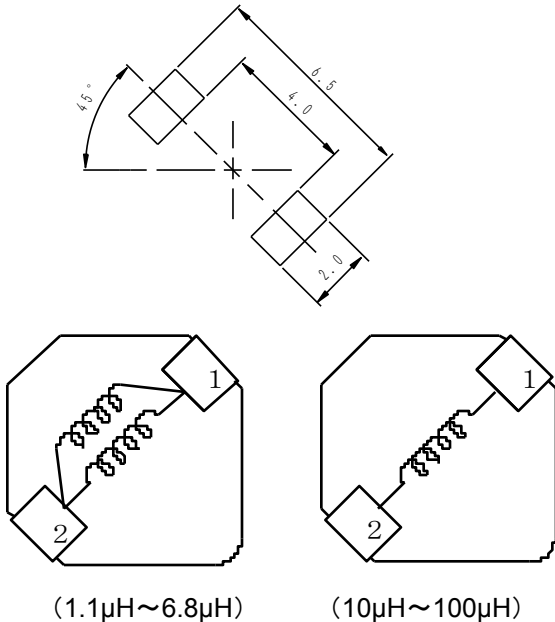
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]





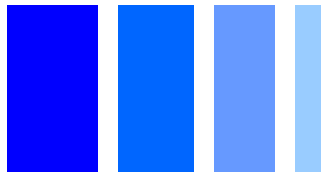
### Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu\text{H}$ ) [within] ※1	D.C.R.( $\Omega$ ) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH4D18CNP-1R1PC	A	1.1 $\pm$ 25%	29m(23m)	2.4
CDRH4D18CNP-2R2PC	B	2.2 $\pm$ 25%	39m(31m)	1.7
CDRH4D18CNP-3R0PC	C	3.0 $\pm$ 25%	61m(49m)	1.5
CDRH4D18CNP-4R7PC	D	4.7 $\pm$ 25%	110m(88m)	1.15
CDRH4D18CNP-6R8PC	E	6.8 $\pm$ 25%	125m(100m)	1.05
CDRH4D18CNP-100PC	F	10 $\pm$ 25%	156m(125m)	830m
CDRH4D18CNP-150PC	G	15 $\pm$ 25%	194m(155m)	700m
CDRH4D18CNP-220PC	H	22 $\pm$ 25%	323m(258m)	600m
CDRH4D18CNP-330PC	I	33 $\pm$ 25%	550m(440m)	460m
CDRH4D18CNP-470PC	J	47 $\pm$ 25%	783m(626m)	410m
CDRH4D18CNP-680PC	K	68 $\pm$ 25%	1.16(925m)	305m
CDRH4D18CNP-101PC	L	100 $\pm$ 25%	1.51(1.21)	250m

※1. Inductance measuring condition: at 100kHz.

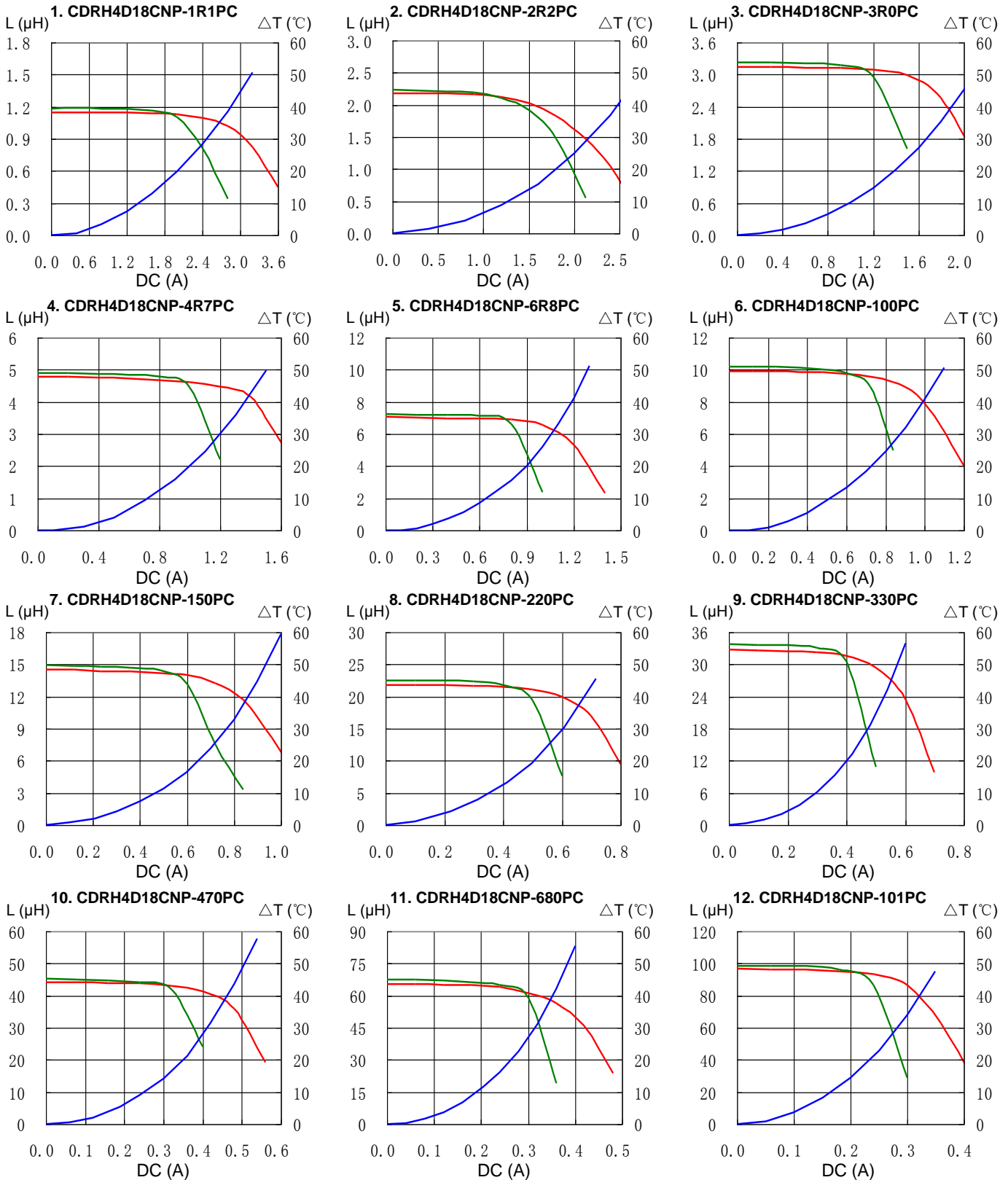
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

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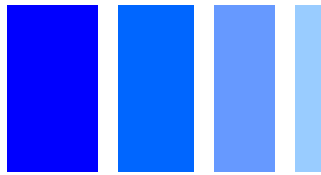


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

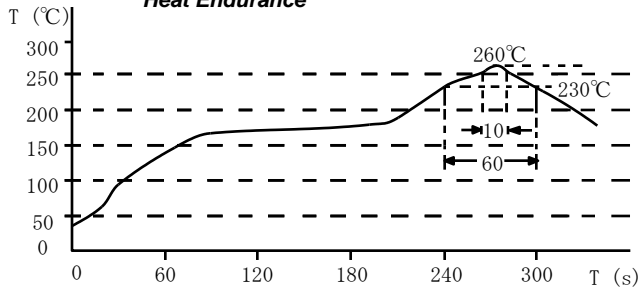


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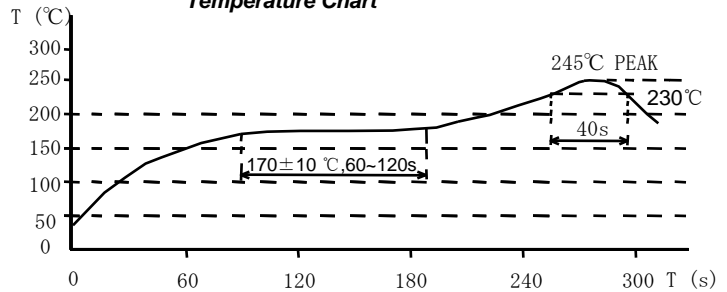


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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