



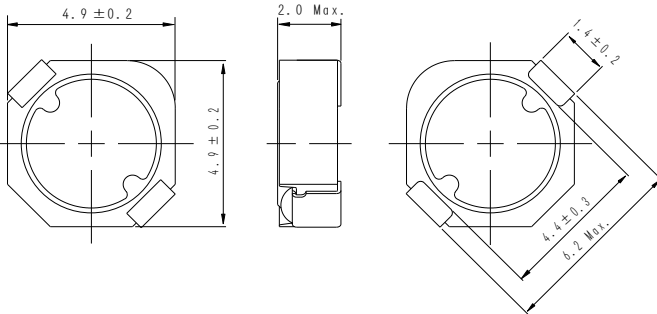
**THE DATASHEET OF  
CDRH4D18CLDNP-470PC**



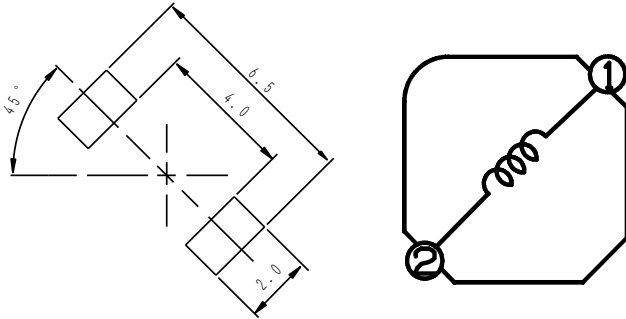
# SMD Power Inductor CDRH4D18C/LD



## Dimension - [mm]



## Land pattern and Schematics - [mm]



## 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.



### Electrical Characteristics

Part No.	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH4D18CLDNP-1R1PC	A	1.1 $\pm$ 25%	24(19)	2.10	3.50
CDRH4D18CLDNP-2R2PC	B	2.2 $\pm$ 25%	31(25)	1.30	2.80
CDRH4D18CLDNP-3R3PC	C	3.3 $\pm$ 25%	49(39)	1.10	2.20
CDRH4D18CLDNP-4R7PC	D	4.7 $\pm$ 25%	61(49)	0.90	2.00
CDRH4D18CLDNP-6R3PC	E	6.3 $\pm$ 25%	74(59)	0.75	1.60
CDRH4D18CLDNP-100PC	F	10 $\pm$ 25%	110(88)	0.60	1.20
CDRH4D18CLDNP-150PC	G	15 $\pm$ 25%	151(121)	0.50	1.05
CDRH4D18CLDNP-220PC	H	22 $\pm$ 25%	202(162)	0.42	0.90
CDRH4D18CLDNP-330PC	I	33 $\pm$ 25%	327(262)	0.35	0.69
CDRH4D18CLDNP-470PC	J	47 $\pm$ 25%	456(365)	0.31	0.57
CDRH4D18CLDNP-680PC	K	68 $\pm$ 25%	632(506)	0.26	0.46
CDRH4D18CLDNP-101PC	L	100 $\pm$ 25%	962(770)	0.20	0.35

※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.

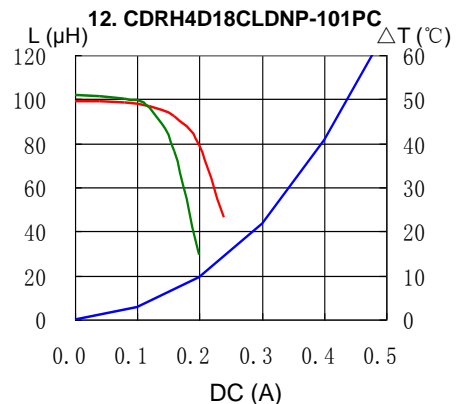
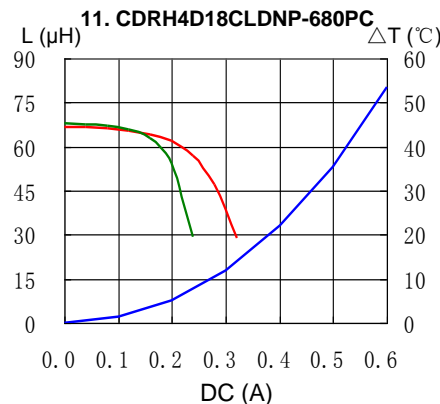
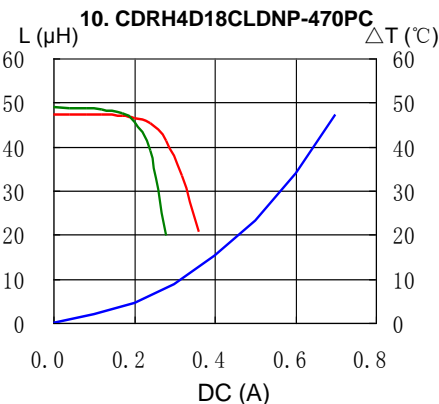
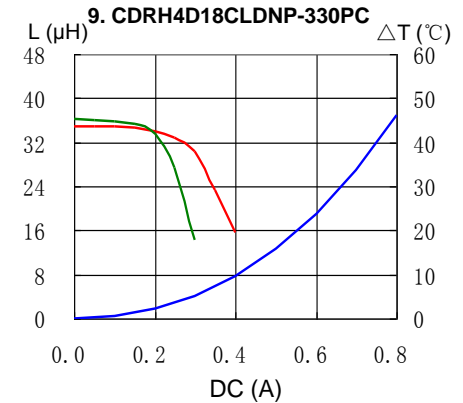
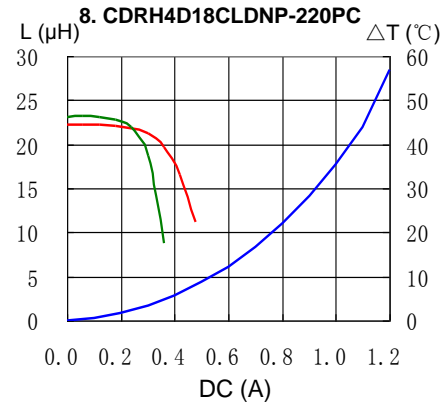
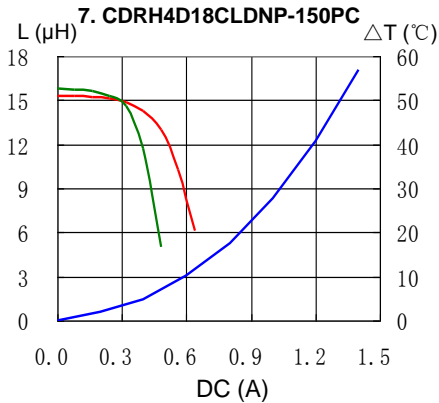
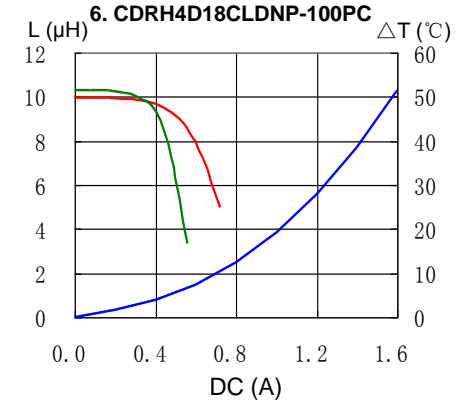
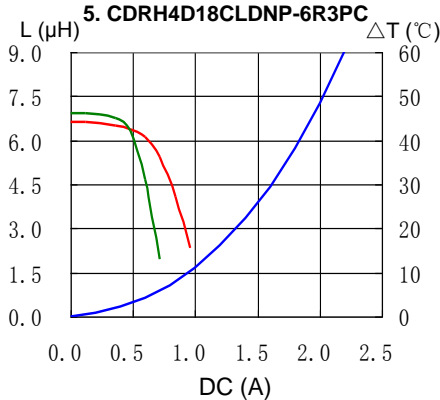
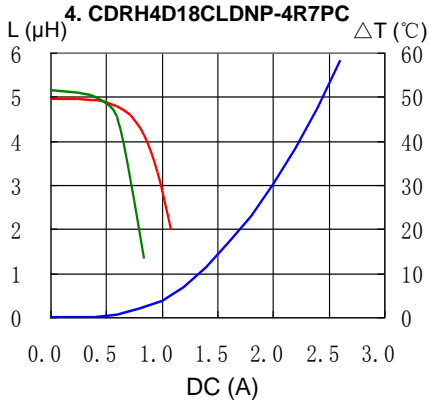
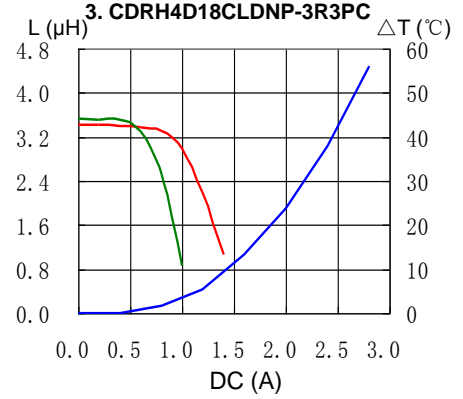
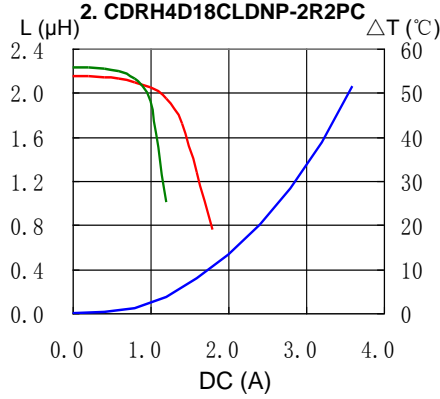
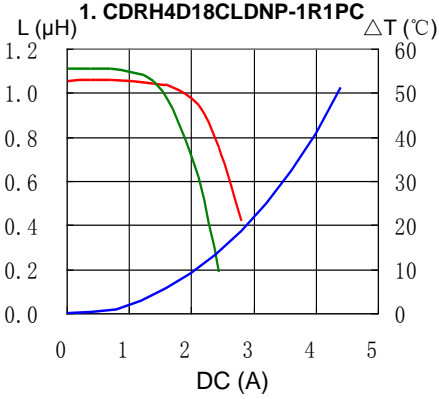
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH4D18C/LD



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

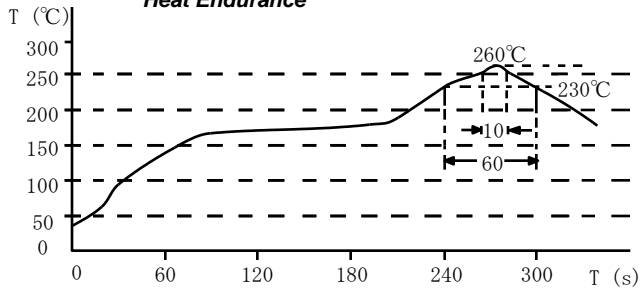


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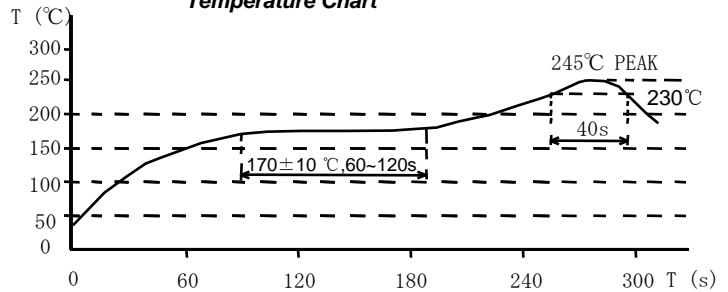


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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