

# SMD Power Inductor CDPH4D19F



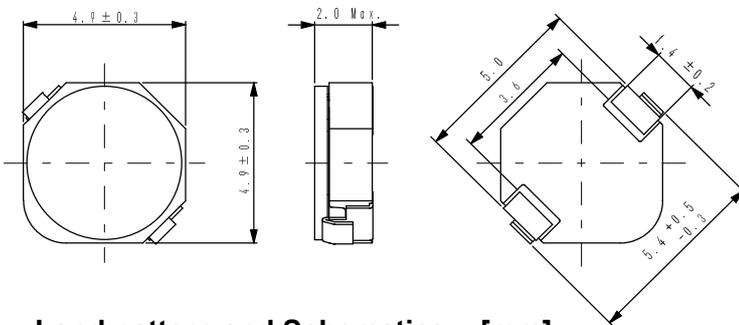
Halogen Free



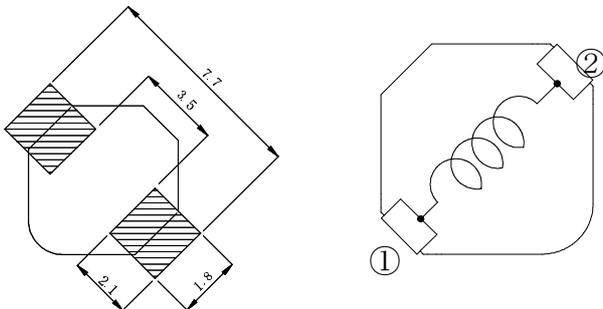
## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.2 × 5.2 × 2.0mm Max.
- Product weight: 160mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## 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 Notebook PC, MP3, Mobile Phone, DSC/DVC, etc as DC-DC Converter inductors.

## Electrical Characteristics

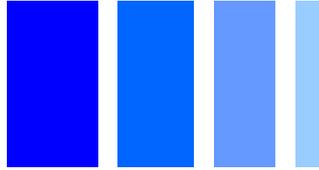
Part Name	Stamp	Inductance ( $\mu$ H) [within] ※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDPH4D19FNP-3R3MC	3R3	3.3 ± 20%	33(26)	1.50	3.80
CDPH4D19FNP-4R7MC	4R7	4.7 ± 20%	38(30)	1.15	3.30
CDPH4D19FNP-6R8MC	6R8	6.8 ± 20%	50(40)	1.00	3.02
CDPH4D19FNP-8R0MC	8R0	8.0 ± 20%	56(45)	0.90	2.68
CDPH4D19FNP-100MC	100	10 ± 20%	65(52)	0.80	2.32
CDPH4D19FNP-150MC	150	15 ± 20%	95(75)	0.66	1.88
CDPH4D19FNP-220MC	220	22 ± 20%	135(108)	0.54	1.44
CDPH4D19FNP-330MC	330	33 ± 20%	200(160)	0.43	1.25
CDPH4D19FNP-470MC	470	47 ± 20%	293(234)	0.36	1.03

※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.

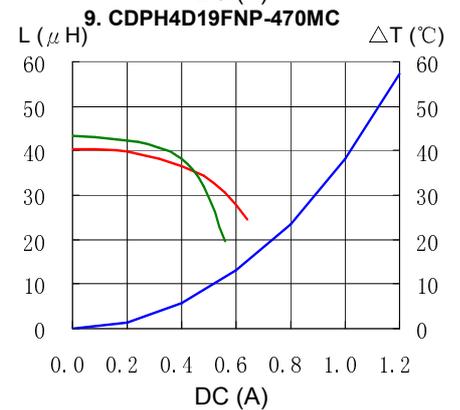
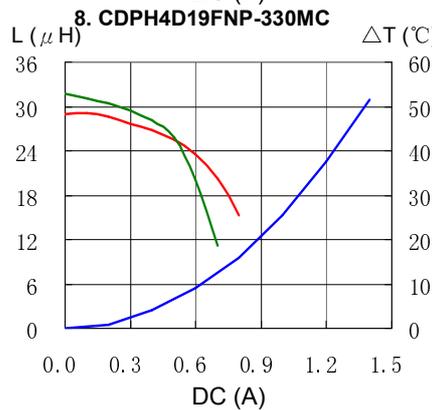
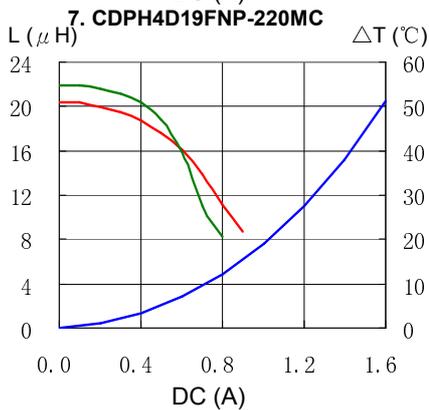
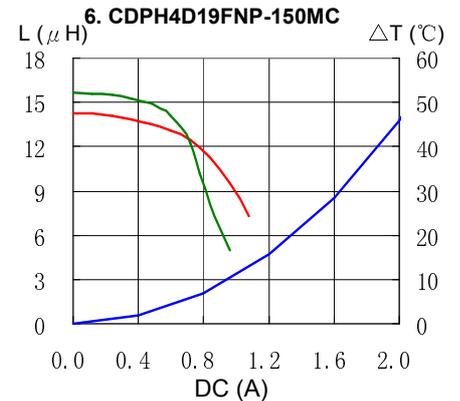
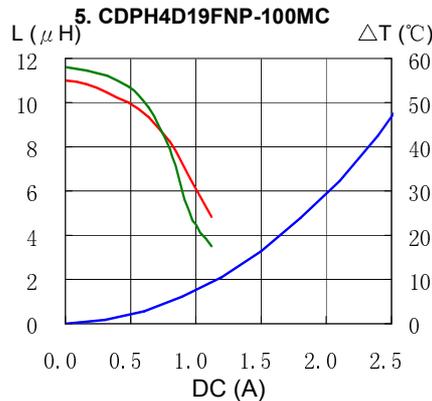
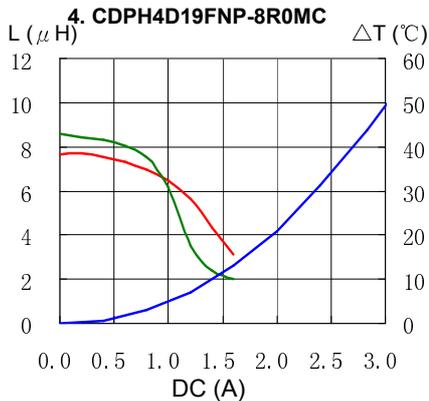
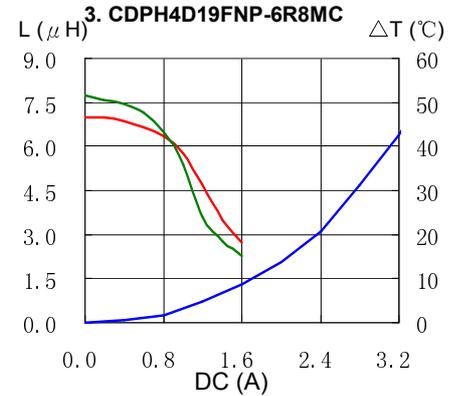
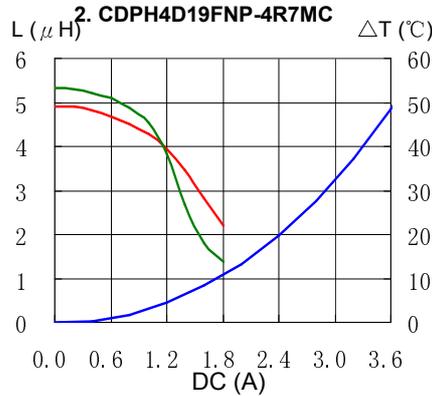
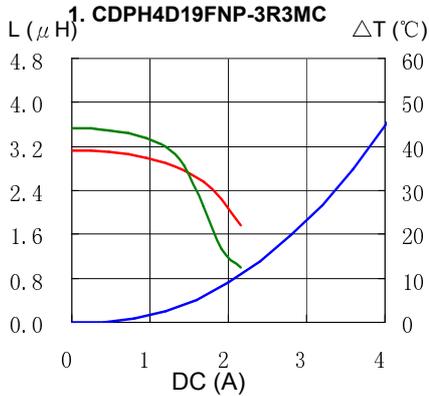
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

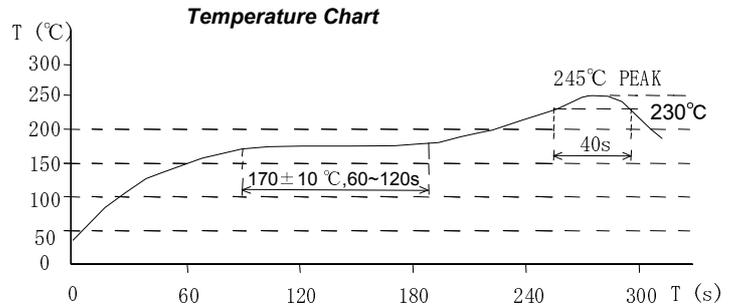
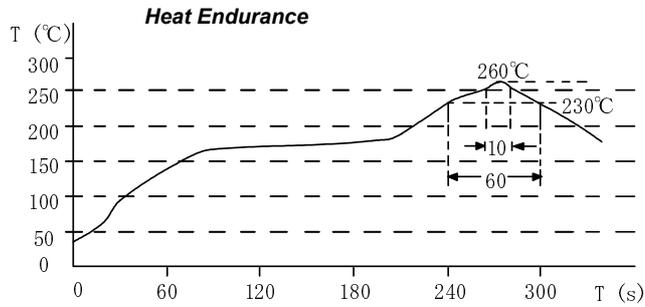
— L (20°C) — L (100°C) —  $\Delta T$



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## Solder Reflow Condition



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