



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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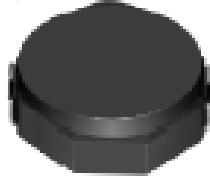
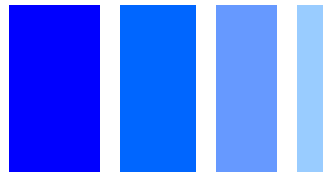
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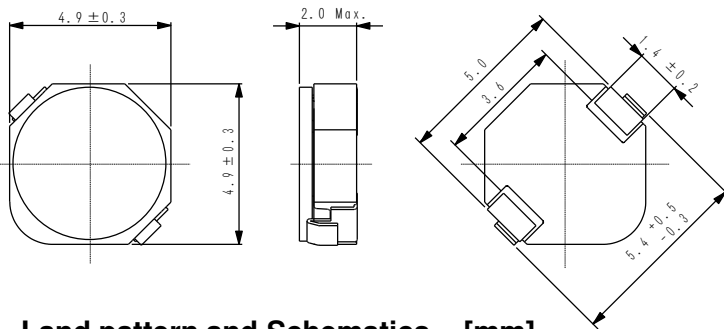
SMD Power Inductor CDPH4D19F



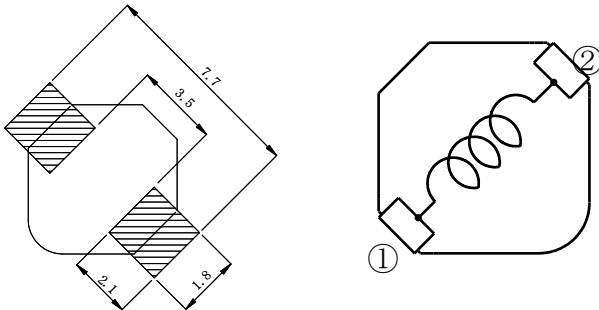
Description

- 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.

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 (μH) [within] ※1	D.C.R. (mΩ) 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.

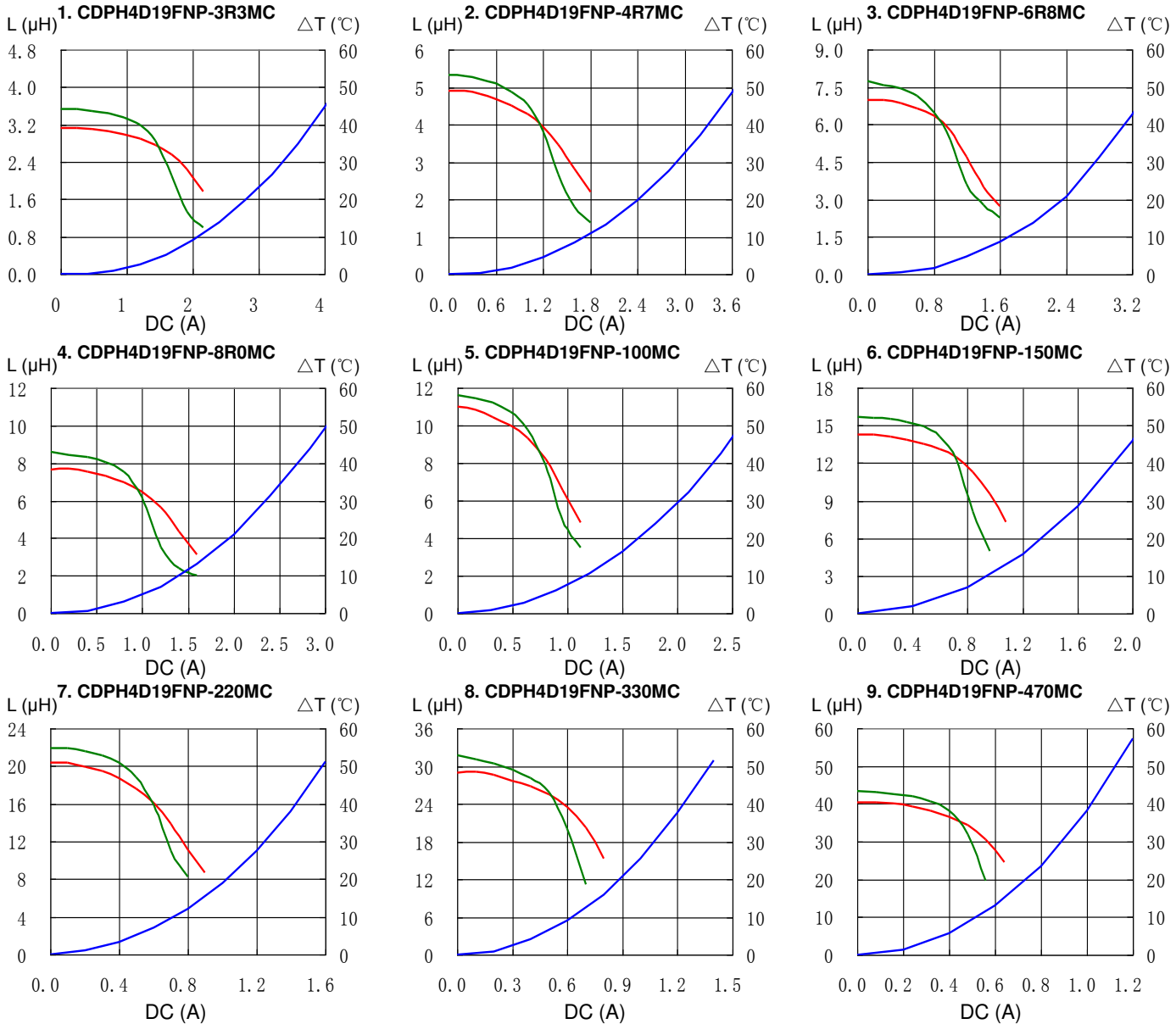
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C(Ta=20°C).

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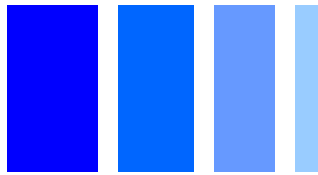


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

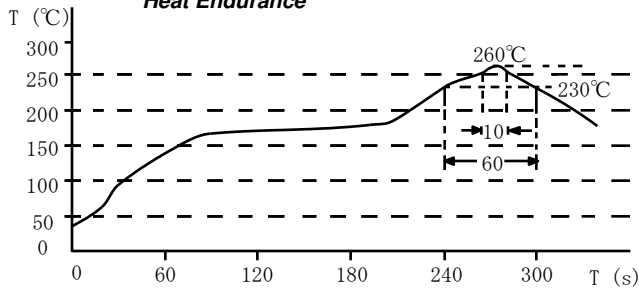


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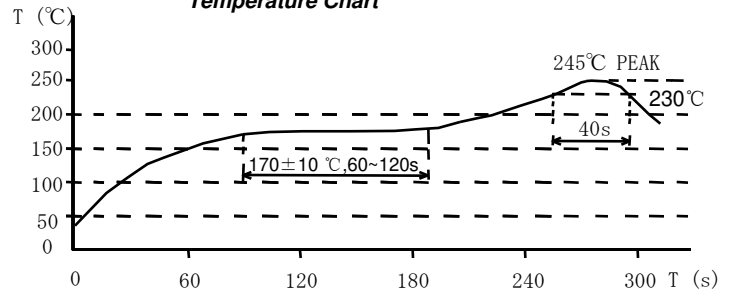


Solder Reflow Condition

Heat Endurance



Temperature Chart



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