



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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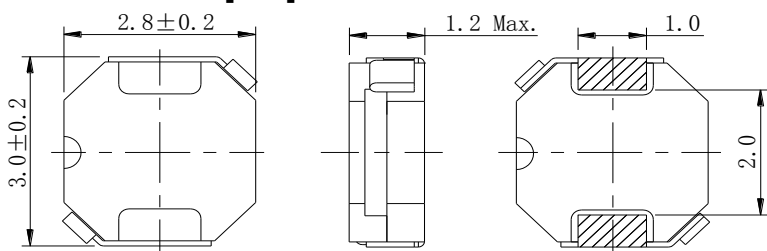
SMD Power Inductor CDPH28D11F



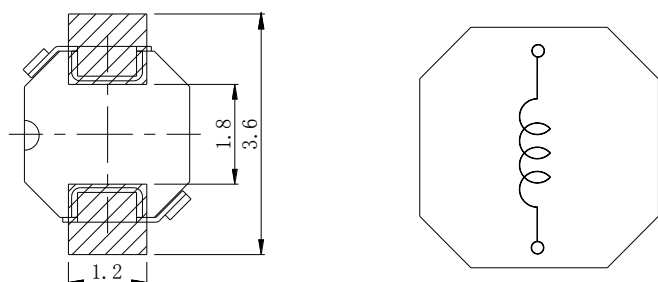
Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.0 × 1.2mm Max.
- Product weight: 34mg(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
- 1500pcs per reel

Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, etc as DC-DC converter inductors.

Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (m Ω) Max. (Typ.)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 25°C	at 100°C	
CDPH28D11FNP-1R0NC	A	1.0 \pm 30%	62(49)	1.78(2.37)	1.60(2.00)	1.83(2.08)
CDPH28D11FNP-1R2NC	B	1.2 \pm 30%	73(58)	1.78(2.37)	1.60(2.00)	1.83(2.08)
CDPH28D11FNP-1R5MC	C	1.5 \pm 20%	86(69)	1.59(2.12)	1.45(1.85)	1.74(1.98)
CDPH28D11FNP-2R2MC	D	2.2 \pm 20%	96(77)	1.31(1.75)	1.15(1.45)	1.72(1.94)
CDPH28D11FNP-2R7MC	E	2.7 \pm 20%	116(93)	1.22(1.63)	1.10(1.40)	1.49(1.69)
CDPH28D11FNP-3R3MC	F	3.3 \pm 20%	128(102)	1.14(1.52)	1.05(1.30)	1.42(1.58)
CDPH28D11FNP-3R9MC	G	3.9 \pm 20%	144(115)	1.03(1.37)	0.90(1.10)	1.34(1.53)
CDPH28D11FNP-4R7MC	J	4.7 \pm 20%	184(147)	0.95(1.27)	0.65(0.85)	1.18(1.32)
CDPH28D11FNP-6R8MC	K	6.8 \pm 20%	300(240)	0.83(1.10)	0.60(0.75)	0.89(1.00)
CDPH28D11FNP-100MC	L	10.0 \pm 20%	408(326)	0.65(0.87)	0.55(0.70)	0.76(0.86)
CDPH28D11FNP-120MC	P	12.0 \pm 20%	453(362)	0.59(0.79)	0.50(0.60)	0.73(0.83)

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

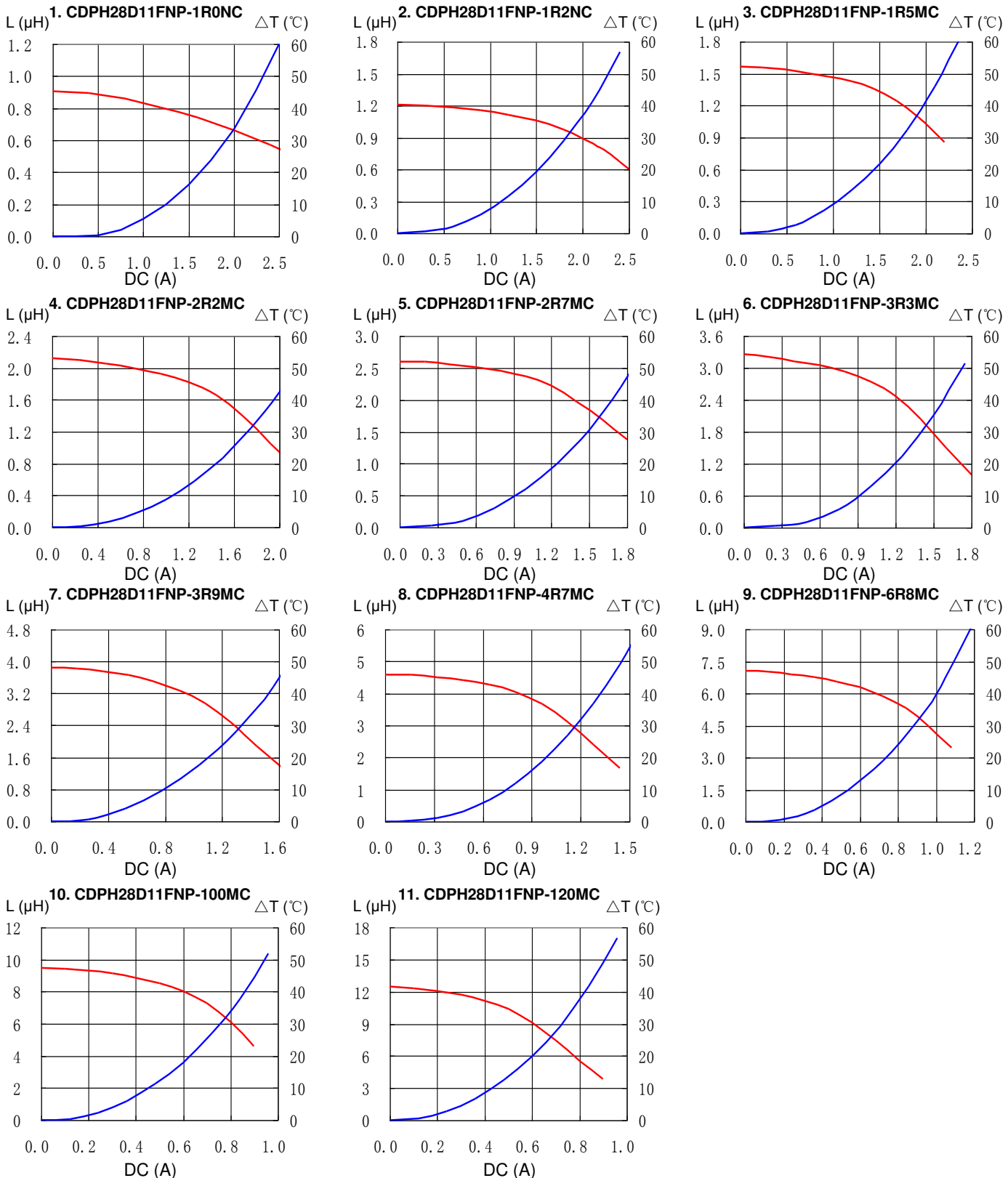
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

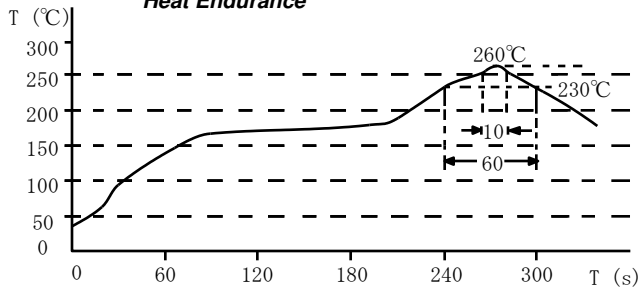


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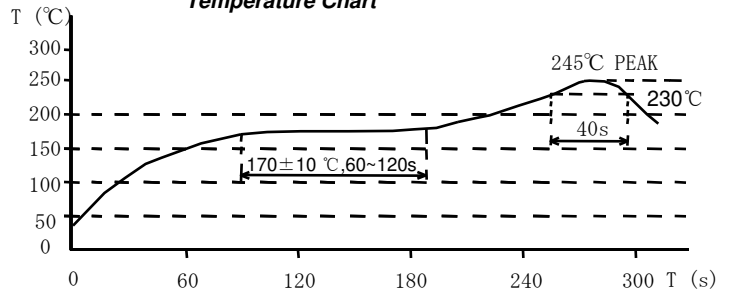


Solder Reflow Condition

Heat Endurance



Temperature Chart



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