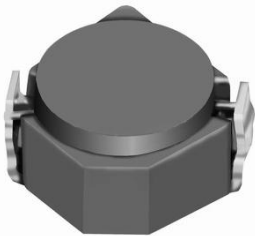


SMD Power Inductor

CDRH2D18B/HP



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.2 × 1.95mm Max.
- Product weight: 60mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃~+105℃
- Solder reflow temperature: 260℃ peak.

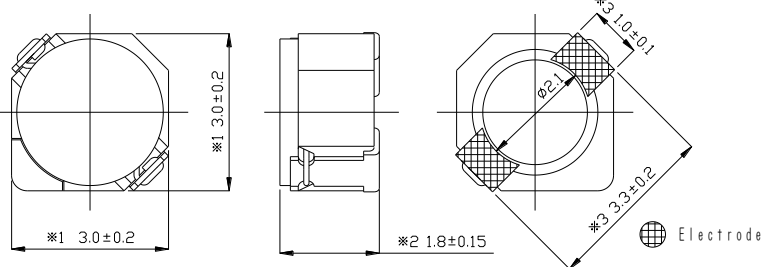
Packaging

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

Applications

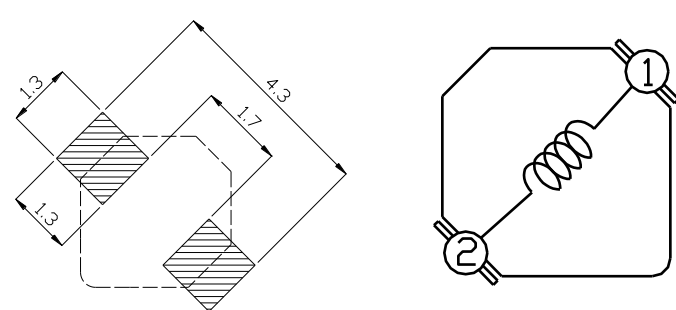
- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

Dimension - [mm]



※1 Not including terminal dimension. ※2 The pin can not overstep the drum core.
※3 Electrode dimension.

Land pattern and Schematics - [mm]



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				(at 20℃)	(at 100℃)	
CDRH2D18B/HPNP-1R3NC	A	1.3±25%	66(53)	2.20	1.80	1.80
CDRH2D18B/HPNP-2R2NC	C	2.2±25%	88(70)	1.70	1.50	1.48
CDRH2D18B/HPNP-3R3NC	E	3.3±25%	103(82)	1.32	1.10	1.30
CDRH2D18B/HPNP-4R7NC	G	4.7±25%	163(130)	1.20	1.05	1.00
CDRH2D18B/HPNP-6R8NC	I	6.8±25%	241(193)	1.05	0.90	0.80
CDRH2D18B/HPNP-100MC	K	10±20%	306(245)	0.88	0.76	0.70
CDRH2D18B/HPNP-150MC	M	15±20%	536(429)	0.70	0.60	0.48
CDRH2D18B/HPNP-220MC	P	22±20%	658(526)	0.58	0.50	0.45

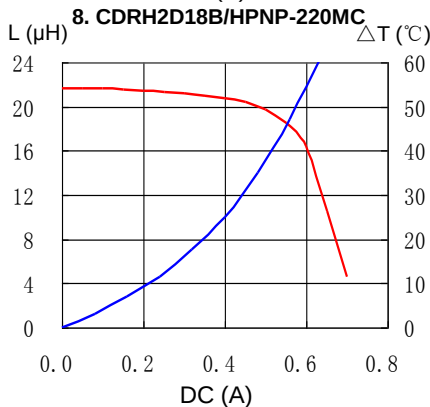
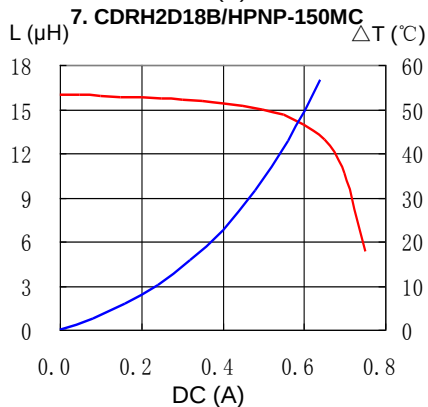
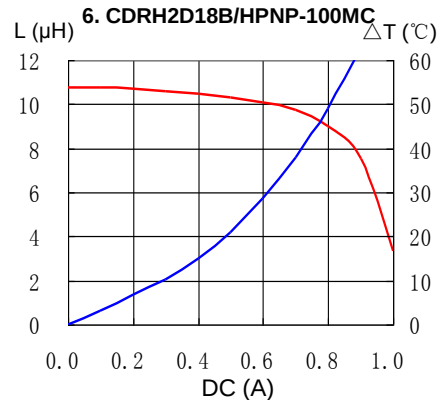
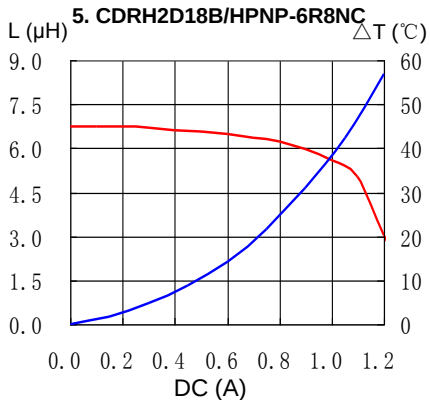
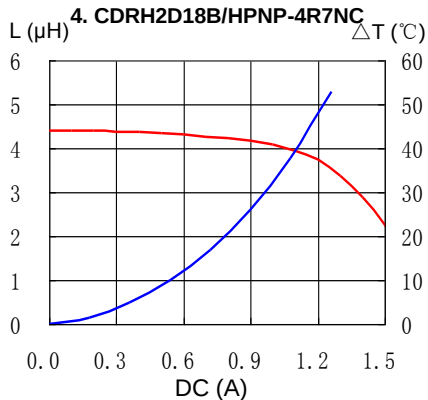
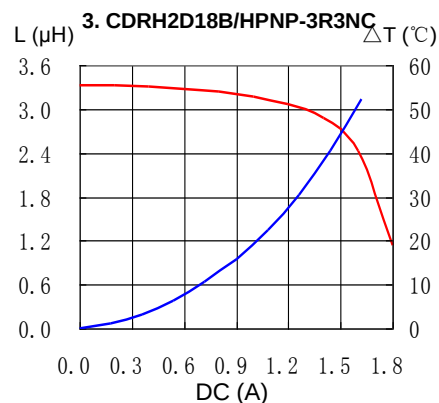
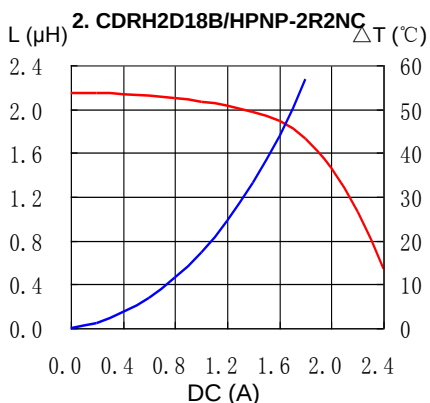
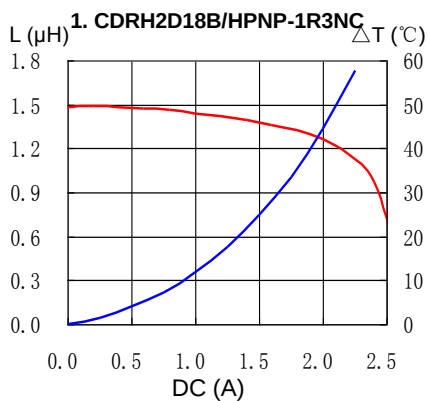
※1 Inductance measuring condition: at 100 kHz.
※2 Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.
※3 Temperature rise current: The DC current at which the temperature rise is ΔT=40℃.(Ta=20℃)

SMD Power Inductor CDRH2D18B/HP



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

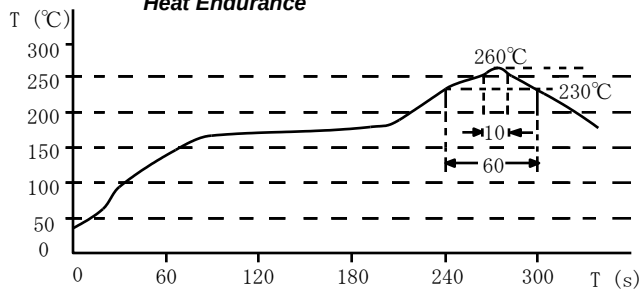


SMD Power Inductor CDRH2D18B/HP

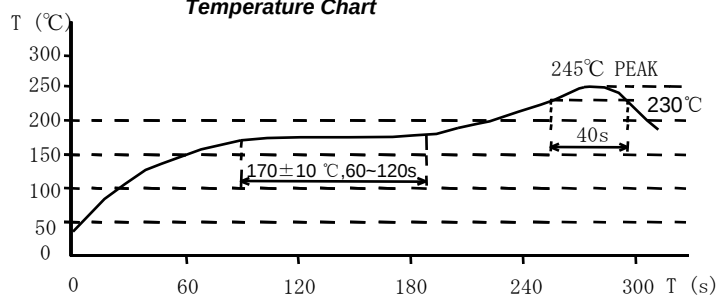


Solder Reflow Condition

Heat Endurance



Temperature Chart



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