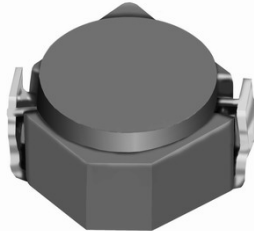


# SMD Power Inductor CDRH2D18B/HP



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

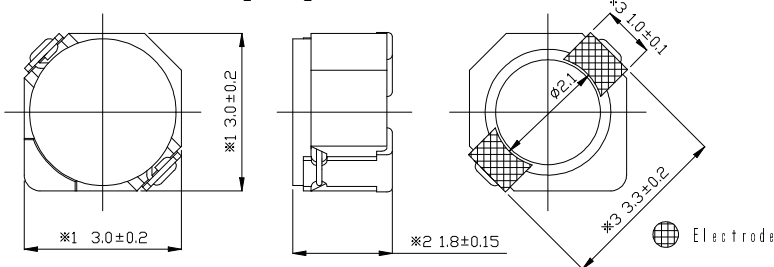
## Packaging

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

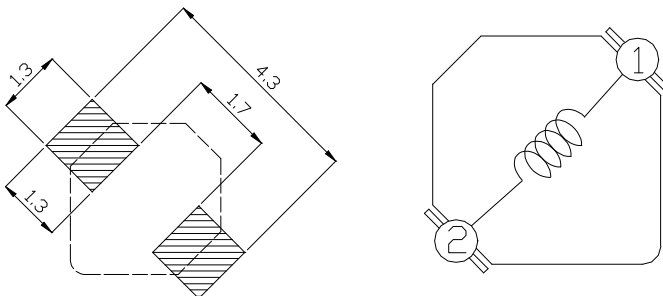
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## 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
				(at 20°C)	(at 100°C)	
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 it's nominal value.

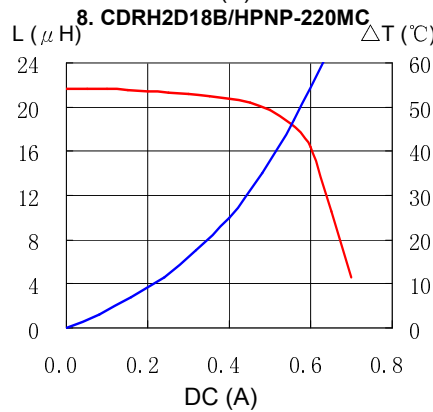
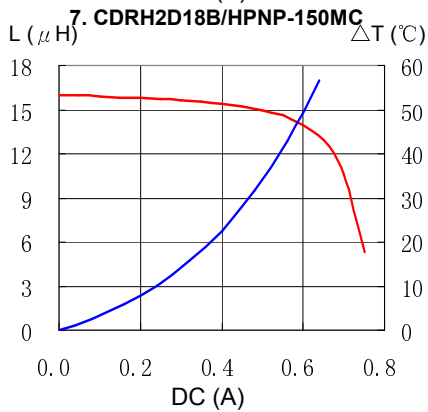
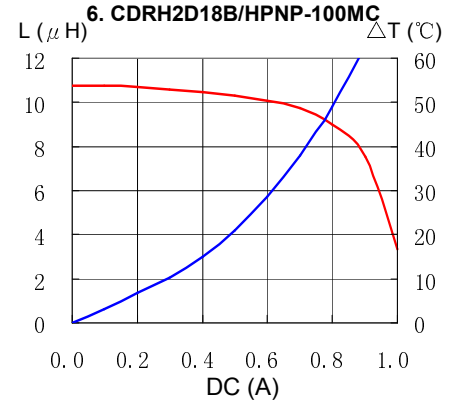
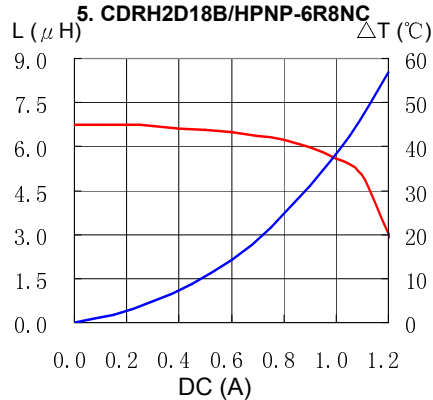
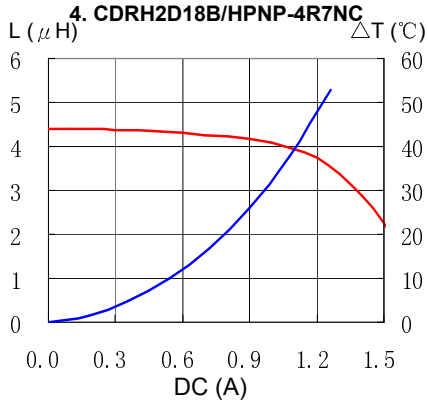
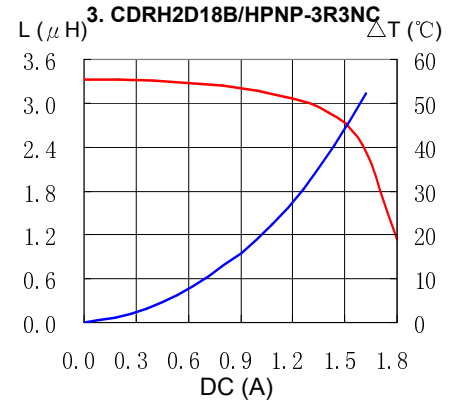
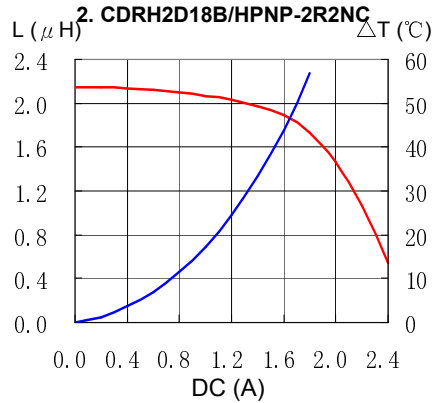
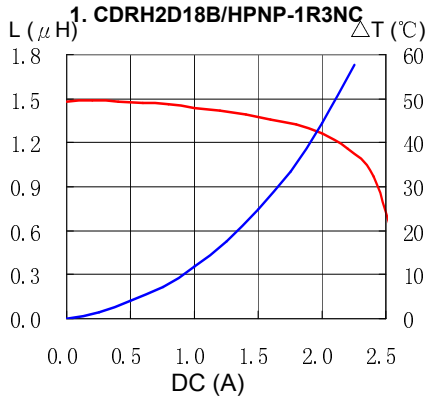
※3 Temperature rise current: The DC current at which the temperature rise is  $\Delta T = 40^\circ\text{C}$ . ( $T_a = 20^\circ\text{C}$ )

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## Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$



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## Solder Reflow Condition

