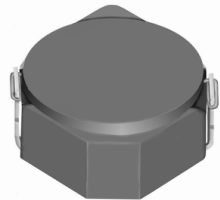


SMD Power Inductor CDRH2D18/EHP



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.2 × 2.0mm Max.
- Product weight: 63mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C
- Solder reflow temperature: 260 °C peak.

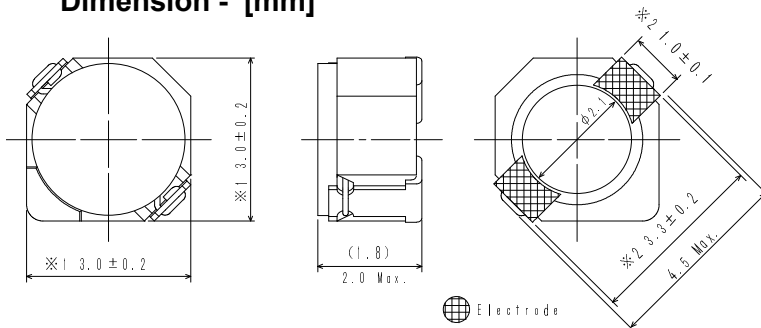
Packaging

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

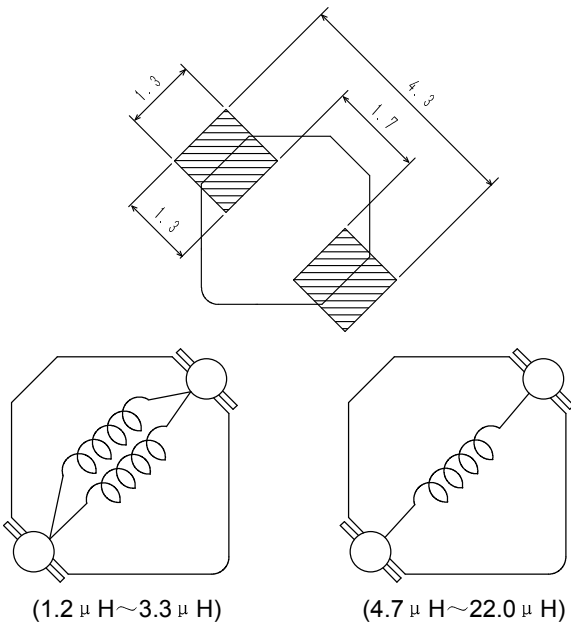
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor CDRH2D18/EHP



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 100°C	
CDRH2D18EHPNP-1R2NC	A	1.2 \pm 30%	43(33)	2.50	1.90	2.65
CDRH2D18EHPNP-1R5NC	B	1.5 \pm 30%	44(35)	1.85	1.36	2.20
CDRH2D18EHPNP-2R2NC	C	2.2 \pm 30%	60(48)	1.60	1.15	1.90
CDRH2D18EHPNP-3R3NC	D	3.3 \pm 30%	86(69)	1.45	1.10	1.55
CDRH2D18EHPNP-4R7NC	E	4.7 \pm 30%	140(110)	1.20	0.90	1.20
CDRH2D18EHPNP-5R6NC	F	5.6 \pm 30%	160(128)	1.05	0.78	1.15
CDRH2D18EHPNP-6R8NC	G	6.8 \pm 30%	245(195)	0.98	0.73	0.95
CDRH2D18EHPNP-100NC	I	10.0 \pm 30%	245(195)	0.85	0.65	0.90
CDRH2D18EHPNP-150NC	K	15.0 \pm 30%	378(303)	0.70	0.53	0.64
CDRH2D18EHPNP-220NC	M	22.0 \pm 30%	715(572)	0.54	0.41	0.48

※1 Inductance measuring condition: at 100 kHz.

※2 Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

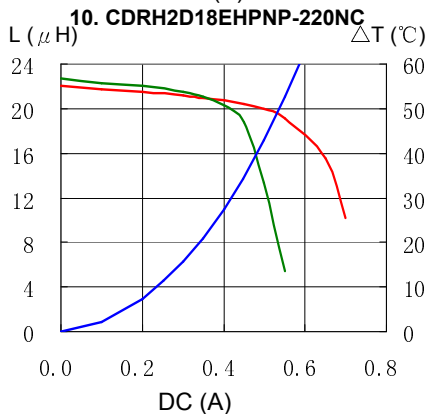
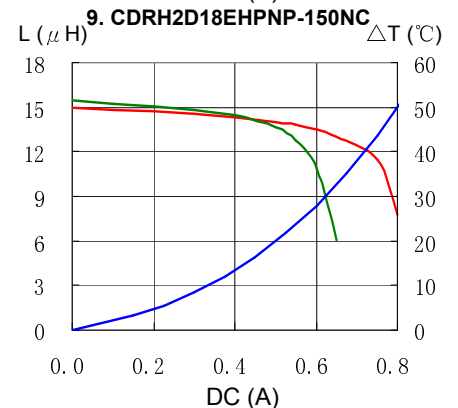
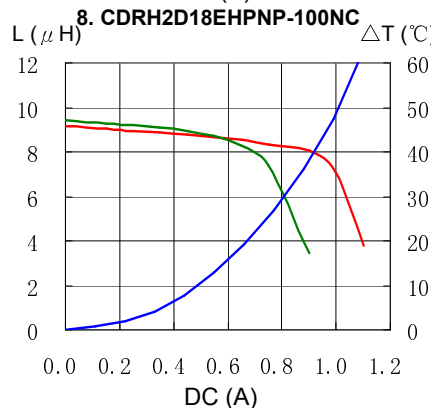
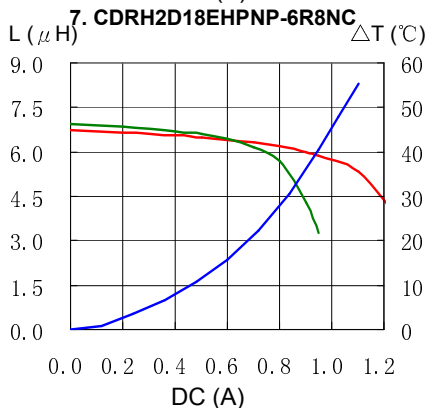
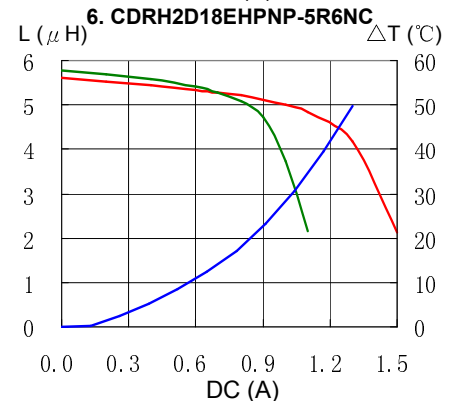
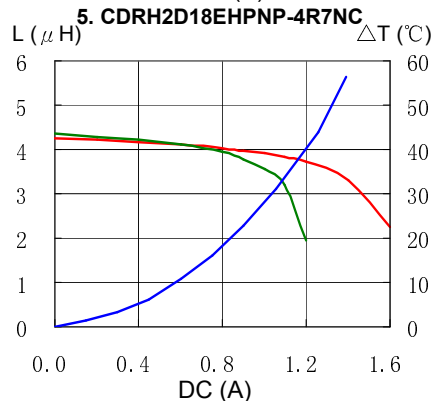
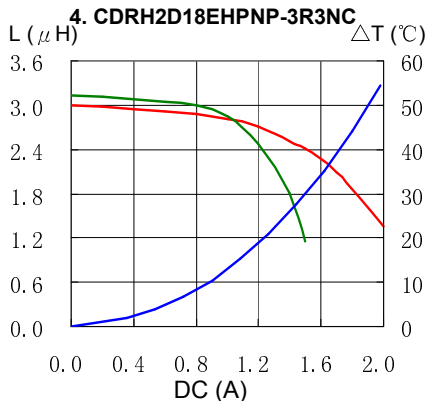
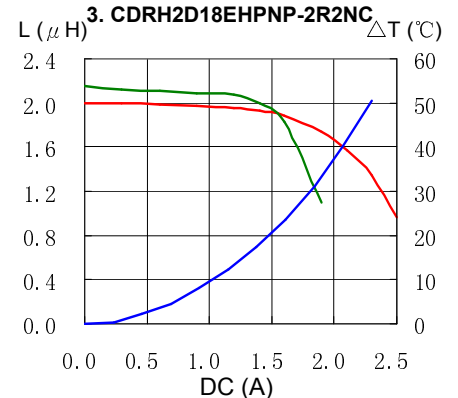
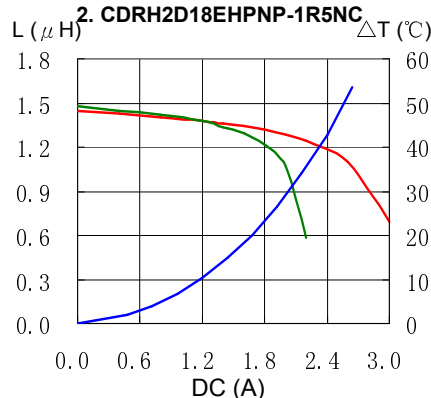
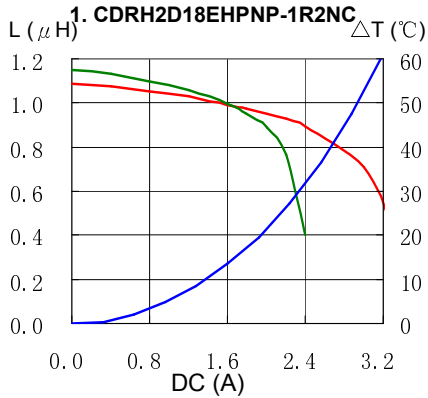
※3 Temperature rise current: The DC current at which the temperature rise is $\Delta T = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)

SMD Power Inductor CDRH2D18/EHP



Saturation Current & Temperature Rise Graph

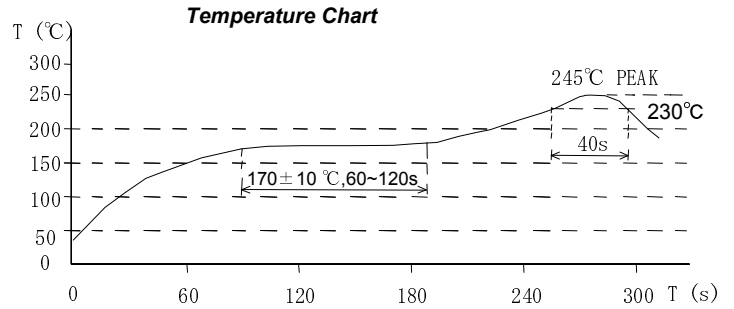
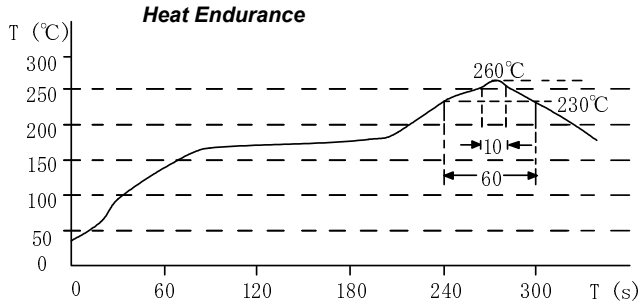
— L (20°C) — L (100°C) — ΔT



SMD Power Inductor CDRH2D18/EHP



Solder Reflow Condition



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