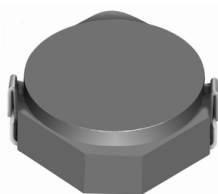


SMD Power Inductor CDRH4D14/HP



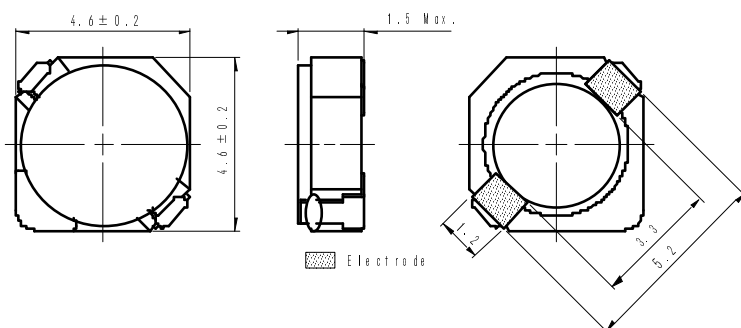
Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.8 × 4.8 × 1.5 mm Max.
- Product weight: 107 mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]



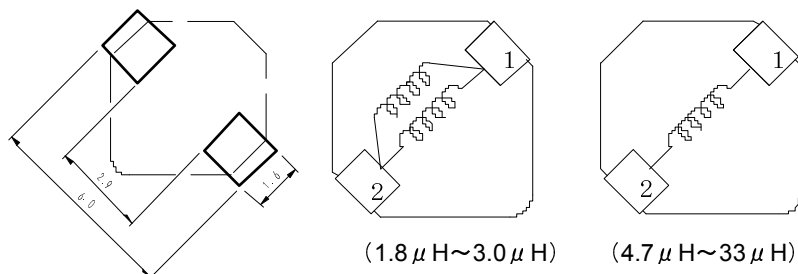
Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

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

Land pattern and Schematics - [mm]



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.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH4D14HPNP-1R8NC	1R8	$1.8 \pm 30\%$	50(40)	2.25	2.30
CDRH4D14HPNP-2R4NC	2R4	$2.4 \pm 30\%$	70(56)	2.00	1.80
CDRH4D14HPNP-3R0NC	3R0	$3.0 \pm 30\%$	91(73)	1.80	1.60
CDRH4D14HPNP-4R7NC	4R7	$4.7 \pm 30\%$	140(115)	1.40	1.10
CDRH4D14HPNP-6R8NC	6R8	$6.8 \pm 30\%$	190(155)	1.15	0.92
CDRH4D14HPNP-100MC	100	$10 \pm 20\%$	280(230)	0.95	0.75
CDRH4D14HPNP-150MC	150	$15 \pm 20\%$	410(330)	0.75	0.62
CDRH4D14HPNP-220MC	220	$22 \pm 20\%$	620(500)	0.62	0.52
CDRH4D14HPNP-330MC	330	$33 \pm 20\%$	930(750)	0.51	0.39

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

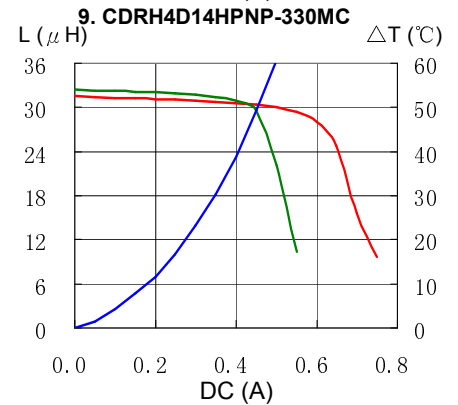
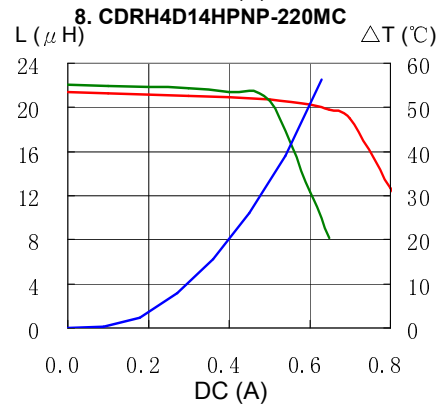
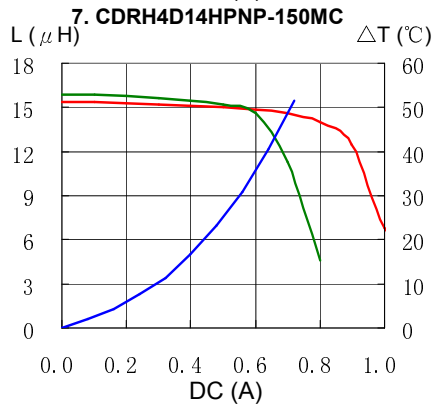
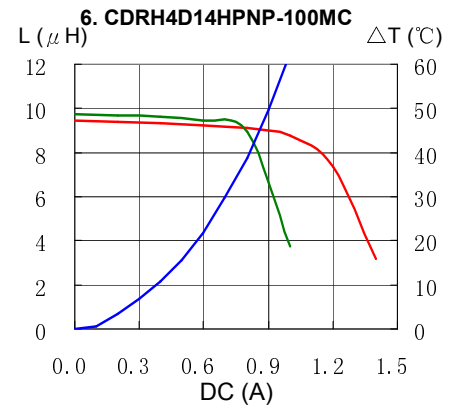
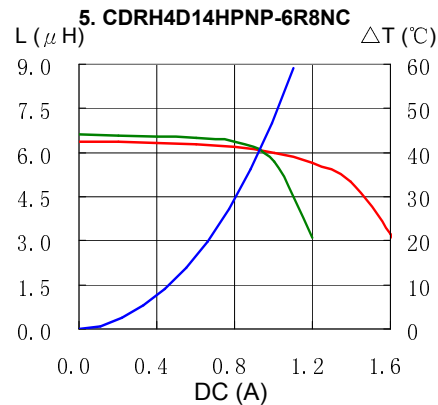
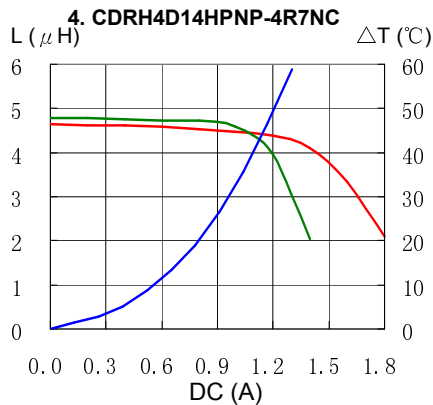
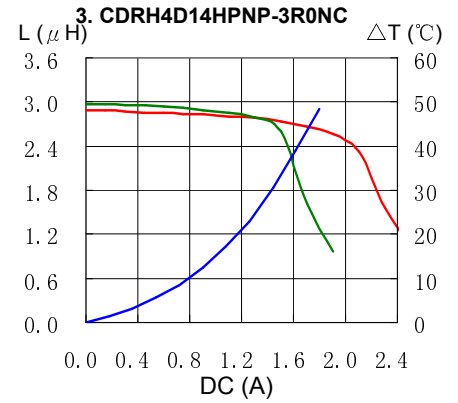
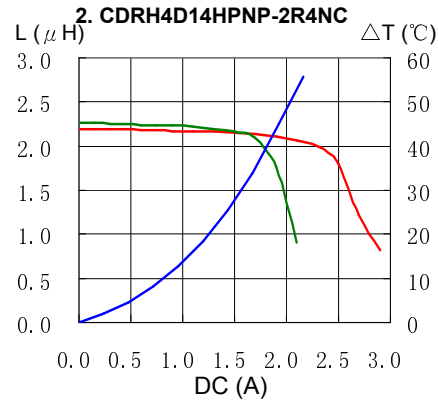
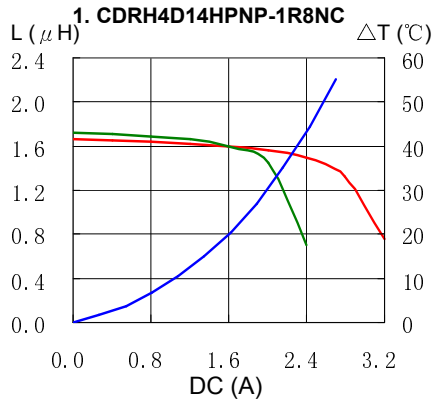
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^{\circ}\text{C}$ ($T_a = 20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

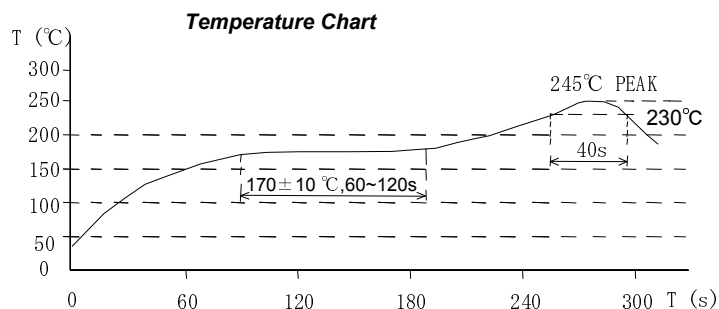
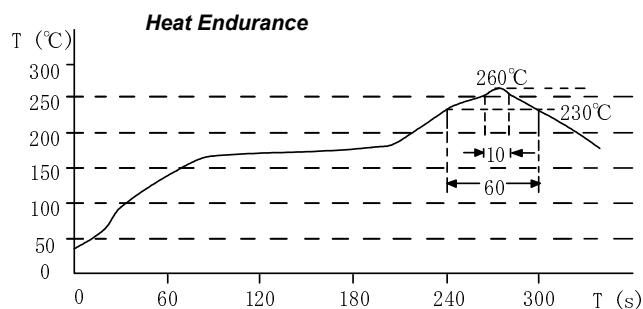
— L (20°C) — L (105°C) — ΔT



SMD Power Inductor CDRH4D14/HP



Solder Reflow Condition



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