

SMD Power Inductor CDRH5D14/HP



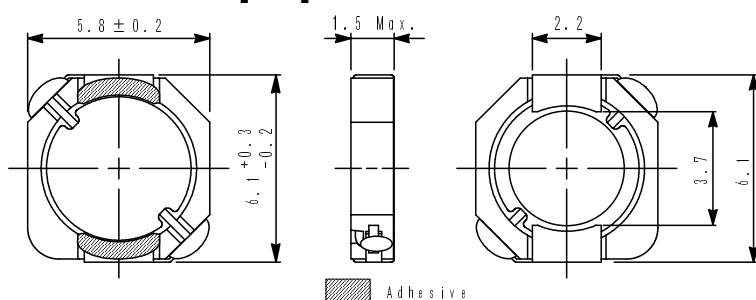
Halogen
Free



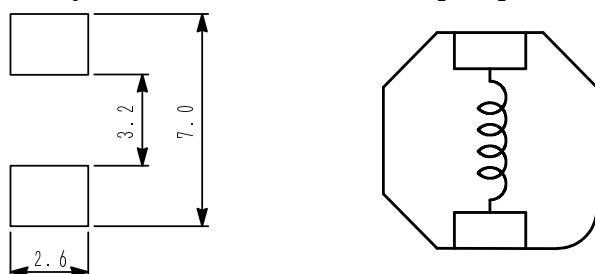
Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.4 × 6.0 × 1.5 mm Max.
- Product weight: 175mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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: -30°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 Mobile phone, Notebook PC, MP3, PDA, HDD, DSC/DVC, Game machine, etc as DC-DC converter inductors.

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	
CDRH5D14HPNP-R32NC	R32	0.32 ± 30%	19.5(15)	6.4	5.0	4.4
CDRH5D14HPNP-R60NC	R60	0.6 ± 30%	22.5(18)	6.0	4.0	3.9
CDRH5D14HPNP-R90NC	R90	0.9 ± 30%	27.5(22)	5.0	3.2	3.5
CDRH5D14HPNP-1R4NC	1R4	1.4 ± 30%	40.3(32)	3.9	2.9	2.8
CDRH5D14HPNP-2R0NC	2R0	2.0 ± 30%	57.5(46)	3.2	2.4	2.3
CDRH5D14HPNP-3R3NC	3R3	3.3 ± 30%	96.5(77)	2.6	1.9	1.7
CDRH5D14HPNP-5R1NC	5R1	5.1 ± 30%	140(112)	2.0	1.5	1.4
CDRH5D14HPNP-7R5NC	7R5	7.5 ± 30%	210(168)	1.7	1.2	1.1
CDRH5D14HPNP-100NC	100	10 ± 30%	280(222)	1.4	1.1	0.94
CDRH5D14HPNP-120NC	120	12 ± 30%	345(275)	1.2	0.97	0.80
CDRH5D14HPNP-150NC	150	15 ± 30%	448(358)	1.1	0.85	0.70
CDRH5D14HPNP-220NC	220	22 ± 30%	670(536)	0.96	0.72	0.61

※1. Inductance measuring condition: at 100kHz.

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

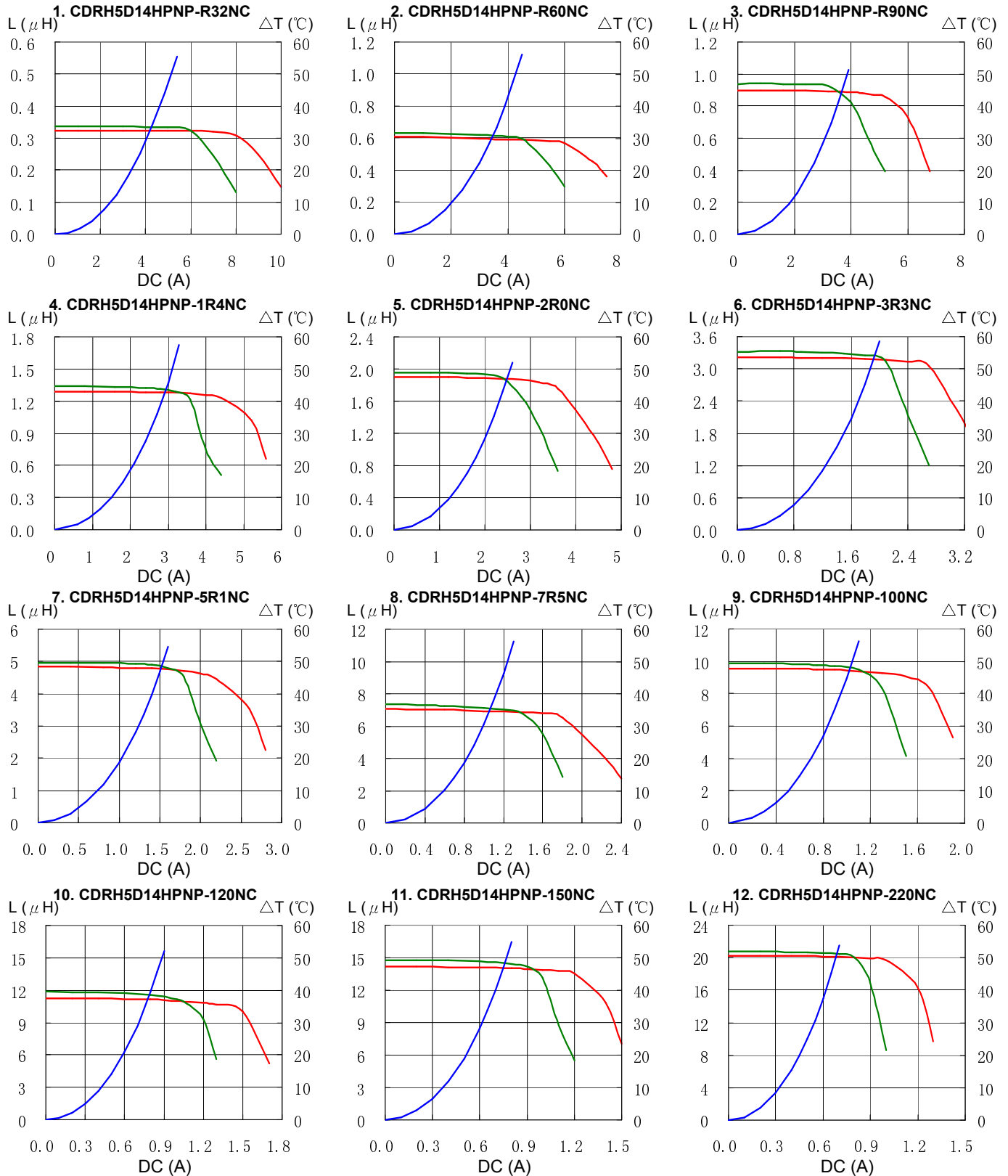
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

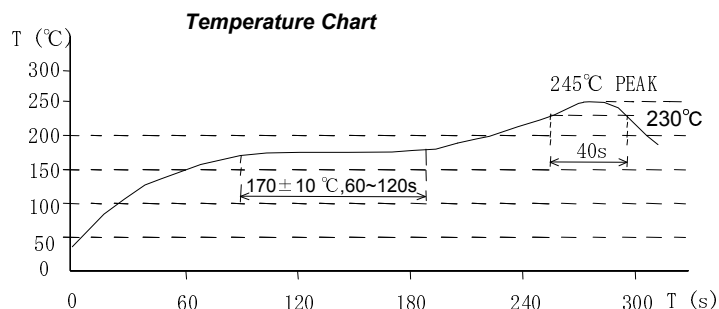
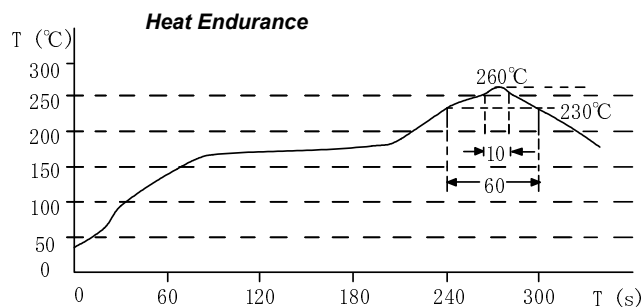
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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Sumida:

<u>CDRH5D14HPNP-120NC</u>	<u>CDRH5D14HPNP-R90NC</u>	<u>CDRH5D14HPNP-220NC</u>	<u>CDRH5D14HPNP-7R5NC</u>
<u>CDRH5D14HPNP-R32NC</u>	<u>CDRH5D14HPNP-150NC</u>	<u>CDRH5D14HPNP-3R3NC</u>	<u>CDRH5D14HPNP-100NC</u>
<u>CDRH5D14HPNP-1R4NC</u>	<u>CDRH5D14HPNP-5R1NC</u>	<u>CDRH5D14HPNP-R60NC</u>	<u>CDRH5D14HPNP-2R0NC</u>