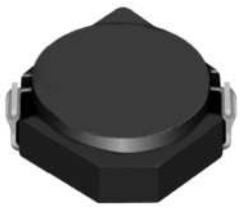
SMD Power Inductor
CDRH3D14/HP

RoHS



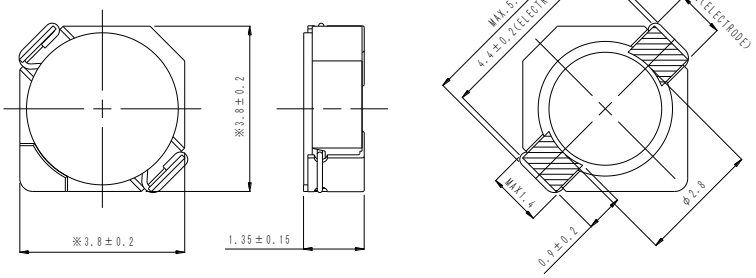
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.0 × 4.0 × 1.5 mm Max.
- Product weight: 70mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

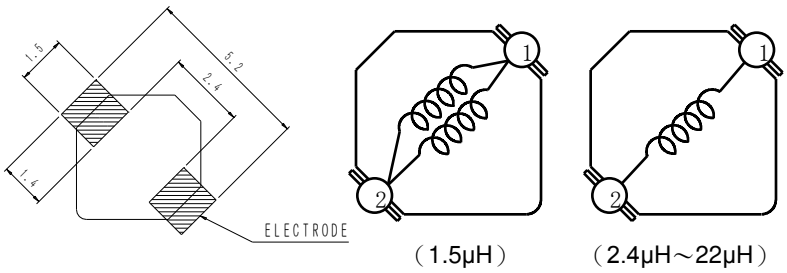
Packaging
- Carrier tape and reel packaging
- 7.0"diameter reel
- 1000pcs per reel

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

Dimension - [mm]



Land pattern and Schematics - [mm]



（1.5μH）　（2.4μH～22μH）

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℃	
CDRH3D14/HPNP-1R5NC	A	1.5±25%	76(61)	2.60	2.00	1.85
CDRH3D14/HPNP-2R4NC	C	2.4±25%	129(103)	2.00	1.60	1.32
CDRH3D14/HPNP-3R2NC	E	3.2±25%	139(111)	1.80	1.40	1.25
CDRH3D14/HPNP-4R7NC	G	4.7±25%	214(171)	1.45	1.15	1.04
CDRH3D14/HPNP-6R8NC	J	6.8±25%	290(232)	1.20	0.95	0.84
CDRH3D14/HPNP-100NC	L	10±25%	440(352)	1.00	0.75	0.67
CDRH3D14/HPNP-150NC	N	15±25%	650(521)	0.80	0.62	0.50
CDRH3D14/HPNP-220NC	Q	22±25%	830(666)	0.65	0.52	0.48

※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.

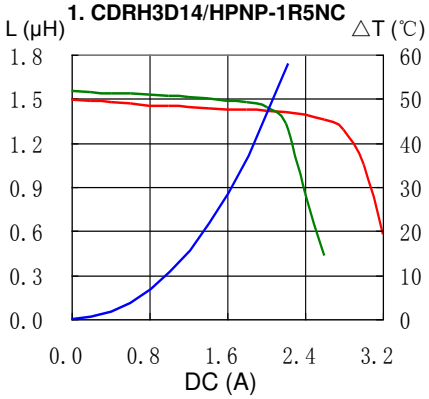
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

Revised: 9-Jan-17

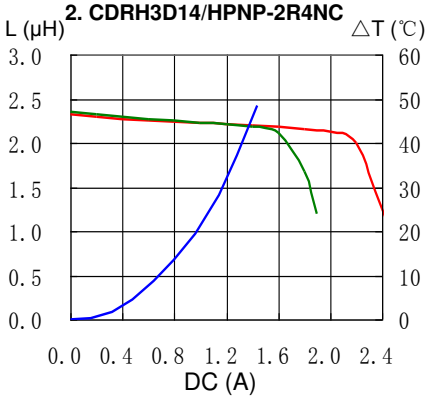
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

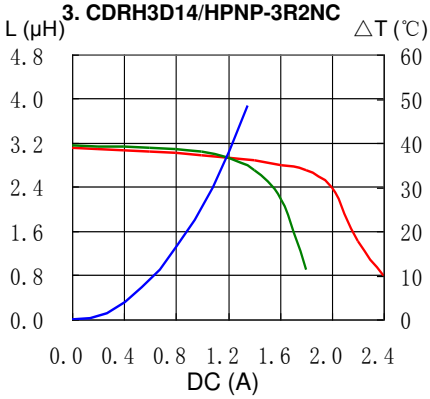
1. CDRH3D14/HPNP-1R5NC



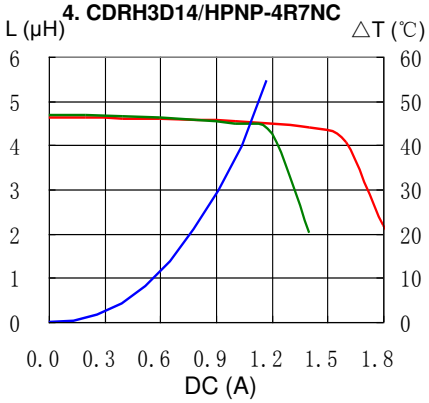
2. CDRH3D14/HPNP-2R4NC



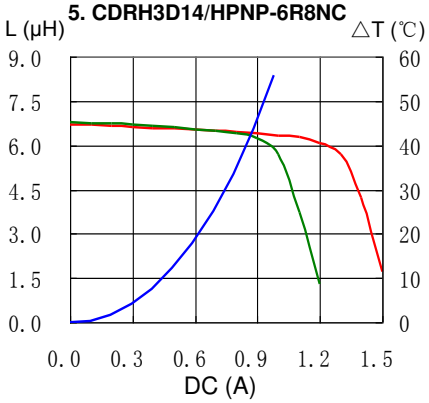
3. CDRH3D14/HPNP-3R2NC



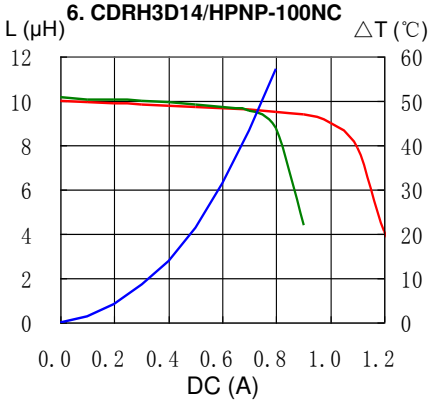
4. CDRH3D14/HPNP-4R7NC



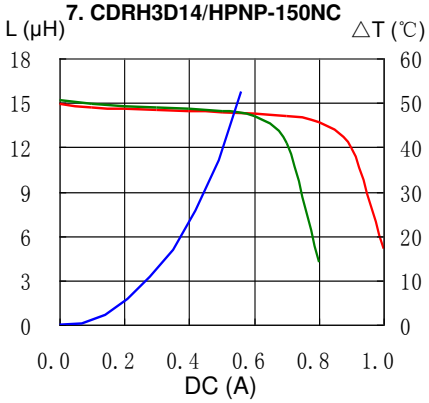
5. CDRH3D14/HPNP-6R8NC



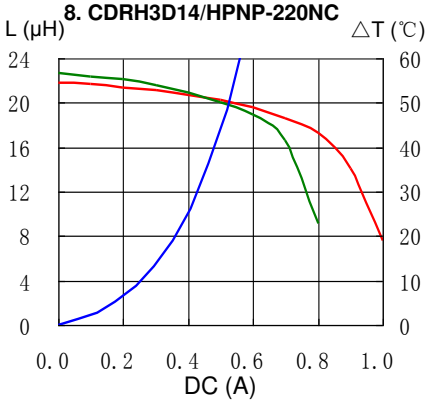
6. CDRH3D14/HPNP-100NC



7. CDRH3D14/HPNP-150NC

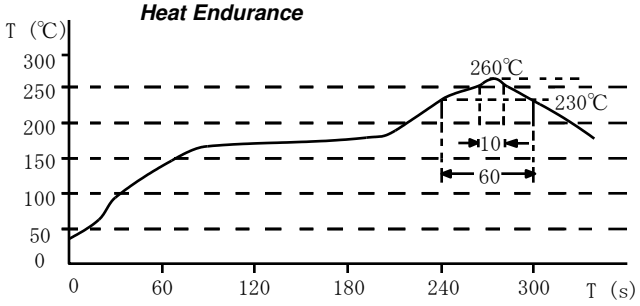


8. CDRH3D14/HPNP-220NC

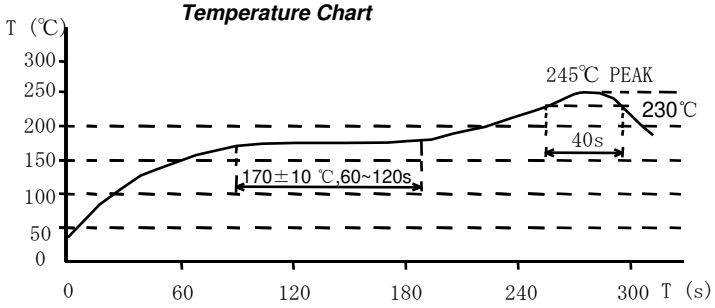


Solder Reflow Condition

Heat Endurance



Temperature Chart



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