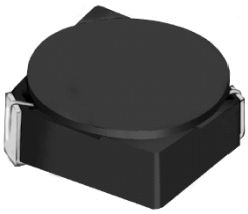
SMD Power Inductor
CDRH3D16/HP

RoHS



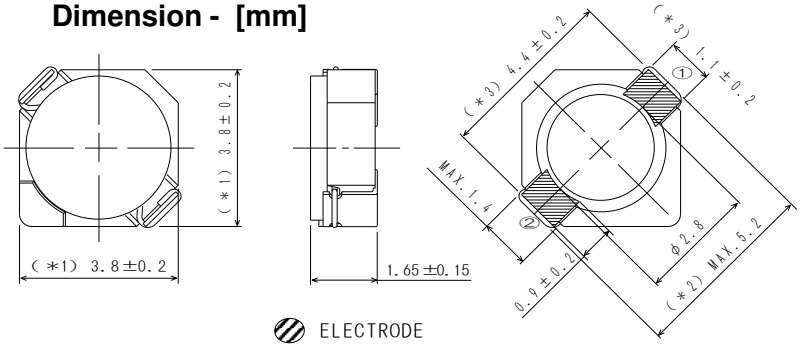
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.0 × 4.0 × 1.8 mm Max.
- Product weight: 80mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

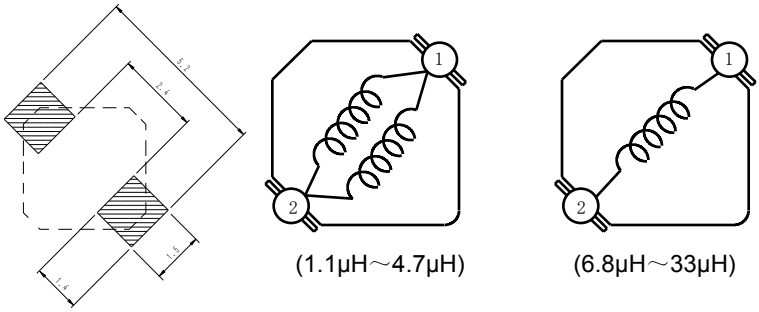
Applications
- Ideally used in Mobile phone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

Dimension - [mm]



(*2)MAX.5.4 SHOULD BE USED FOR DOUBLE WIRE WINDING(BELOW 4.7μH).

Land pattern and Schematics - [mm]



(1.1μH～4.7μH) (6.8μH～33μH)

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 105℃	
CDRH3D16/HPNP-1R7NC	A	1.7±30%	51(41)	2.00	1.50	2.40
CDRH3D16/HPNP-2R2NC	C	2.2±30%	59(47)	1.75	1.30	2.30
CDRH3D16/HPNP-3R3NC	E	3.3±30%	85(68)	1.40	1.10	1.80
CDRH3D16/HPNP-4R7NC	G	4.7±30%	116(93)	1.20	0.90	1.50
CDRH3D16/HPNP-6R8NC	J	6.8±30%	180(145)	1.00	0.72	1.10
CDRH3D16/HPNP-100MC	L	10±20%	230(185)	0.84	0.62	1.00
CDRH3D16/HPNP-150MC	N	15±20%	410(328)	0.65	0.52	0.75
CDRH3D16/HPNP-220MC	P	22±20%	610(488)	0.55	0.43	0.52
CDRH3D16/HPNP-330MC	Q	33±20%	870(695)	0.46	0.35	0.41

※1. Inductance measuring condition: at 100kHz.

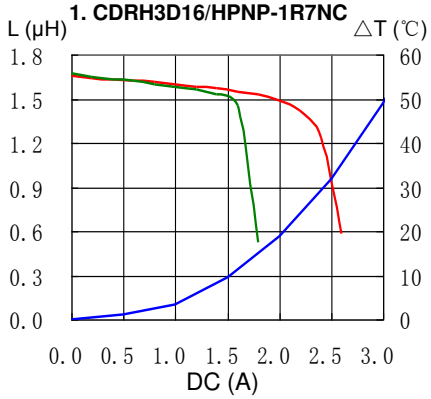
※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The DC current at which the temperature rise is △t=40℃.(Ta=20℃)

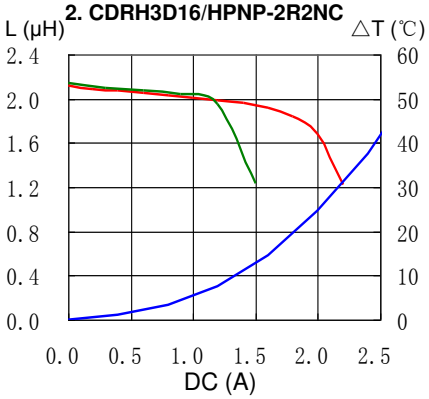
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

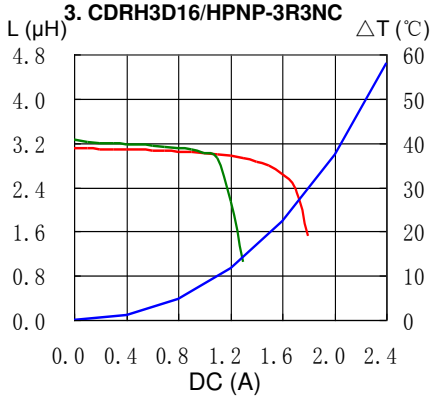
1. CDRH3D16/HPNP-1R7NC



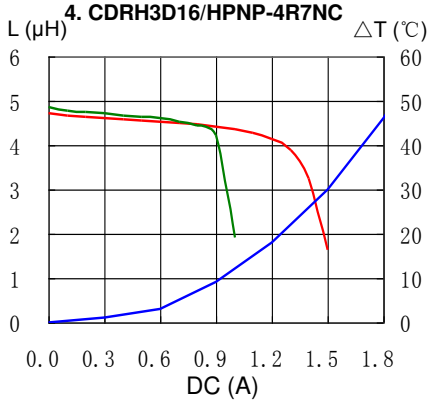
2. CDRH3D16/HPNP-2R2NC



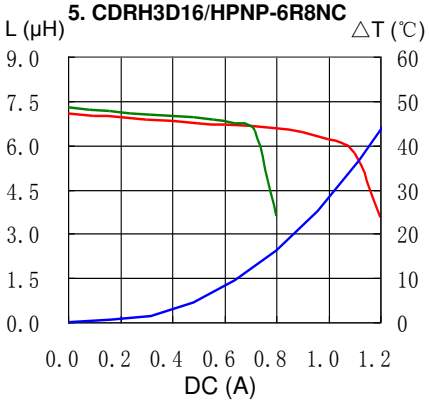
3. CDRH3D16/HPNP-3R3NC



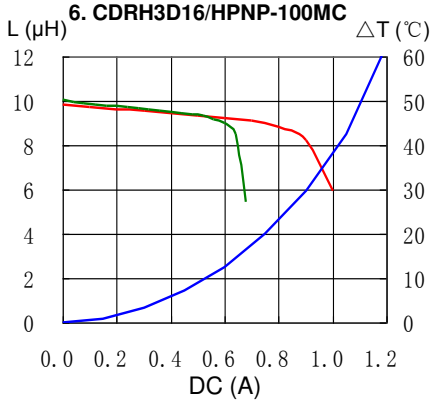
4. CDRH3D16/HPNP-4R7NC



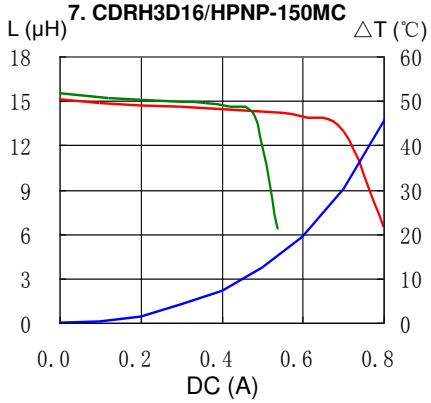
5. CDRH3D16/HPNP-6R8NC



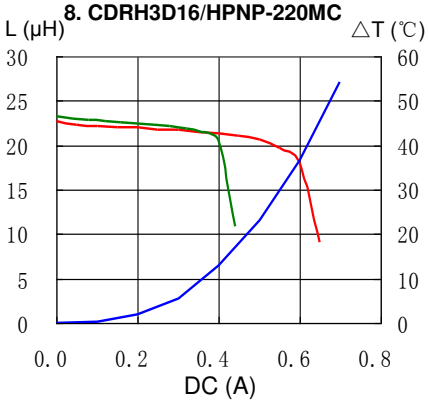
6. CDRH3D16/HPNP-100MC



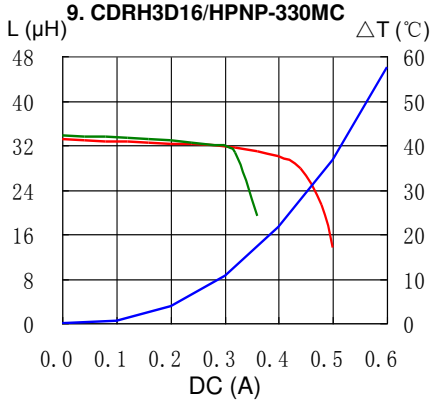
7. CDRH3D16/HPNP-150MC



8. CDRH3D16/HPNP-220MC

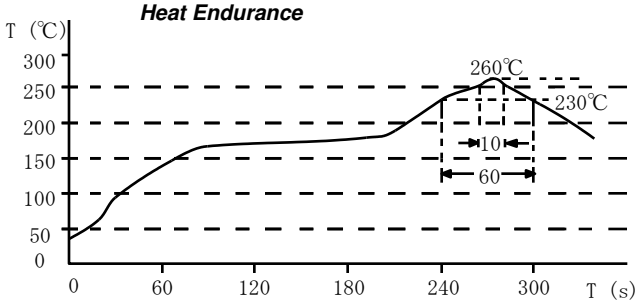


9. CDRH3D16/HPNP-330MC

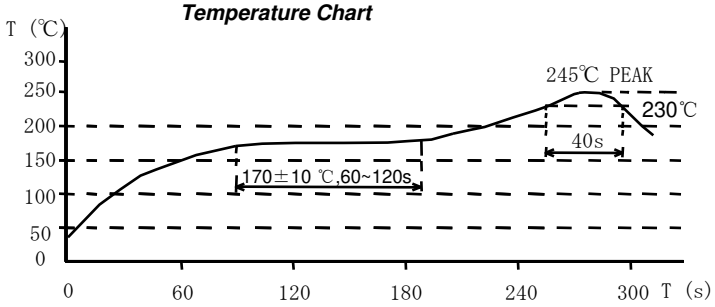


Solder Reflow Condition

Heat Endurance



Temperature Chart



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