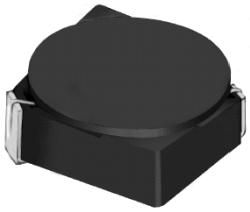
SMD Power Inductor
CDRH3D16/LD

RoHS

Halogen Free



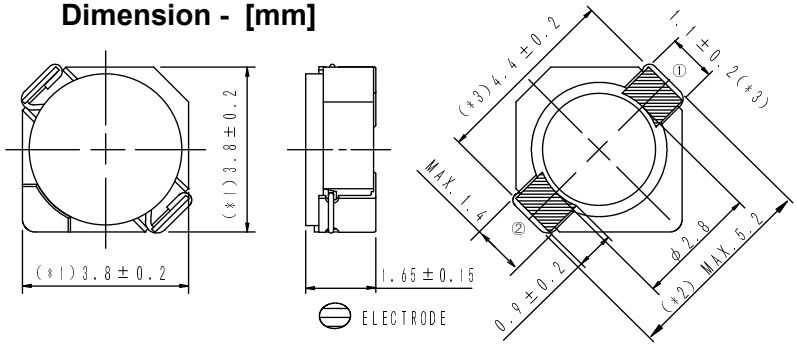
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.0 × 4.0 × 1.8 mm Max.
- Product weight: 80mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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

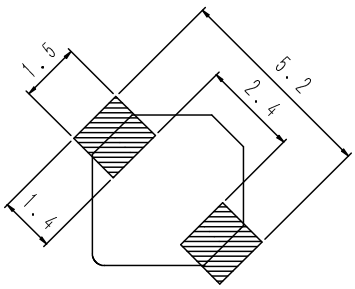
Applications
- Ideally used in Mobile phone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

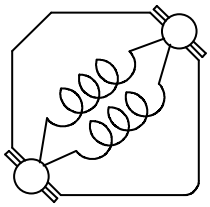
Dimension - [mm]



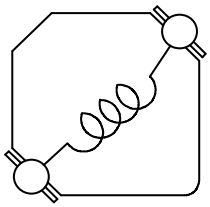
(*2) MAX.5.4 SHOULD BE USED FOR DOUBLE WIRE WINDING.

Land pattern and Schematics - [mm]





(3.3 μ H～12 μ H)



(15 μ H～47 μ H)

Revised: 7-Jan-14

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℃	
CDRH3D16/LDNP-3R3NC	A	3.3±30%	66(53)	0.80	0.52	2.00
CDRH3D16/LDNP-3R9NC	B	3.9±30%	81(65)	0.75	0.44	1.75
CDRH3D16/LDNP-4R7NC	C	4.7±30%	91(73)	0.68	0.43	1.72
CDRH3D16/LDNP-5R6NC	D	5.6±30%	102(82)	0.62	0.38	1.64
CDRH3D16/LDNP-6R8NC	E	6.8±30%	130(104)	0.58	0.34	1.30
CDRH3D16/LDNP-8R2NC	F	8.2±30%	140(112)	0.51	0.32	1.28
CDRH3D16/LDNP-100NC	G	10±30%	190(152)	0.46	0.27	1.07
CDRH3D16/LDNP-120NC	H	12±30%	205(164)	0.42	0.26	0.98
CDRH3D16/LDNP-150NC	J	15±30%	272(218)	0.38	0.23	0.87
CDRH3D16/LDNP-180NC	K	18±30%	327(262)	0.34	0.21	0.76
CDRH3D16/LDNP-220NC	L	22±30%	356(285)	0.31	0.18	0.66
CDRH3D16/LDNP-270NC	M	27±30%	470(377)	0.28	0.17	0.60
CDRH3D16/LDNP-330NC	N	33±30%	560(446)	0.26	0.16	0.55
CDRH3D16/LDNP-390NC	P	39±30%	700(558)	0.24	0.15	0.47
CDRH3D16/LDNP-470NC	Q	47±30%	775(630)	0.21	0.13	0.45

※1. Inductance measuring condition: at 100kHz.

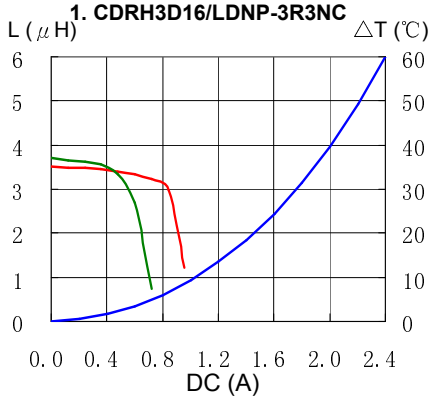
※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

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

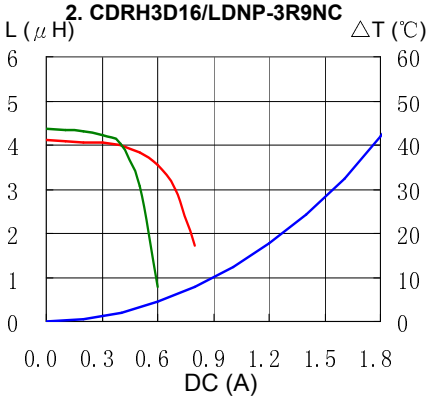
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

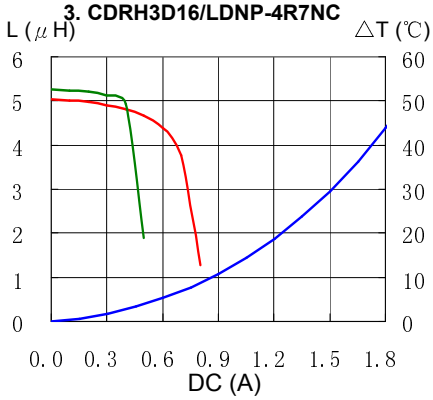
1. CDRH3D16/LDNP-3R3NC



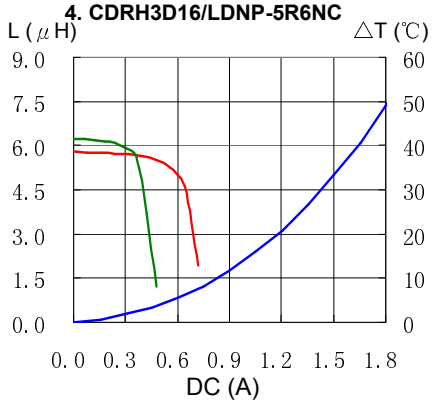
2. CDRH3D16/LDNP-3R9NC



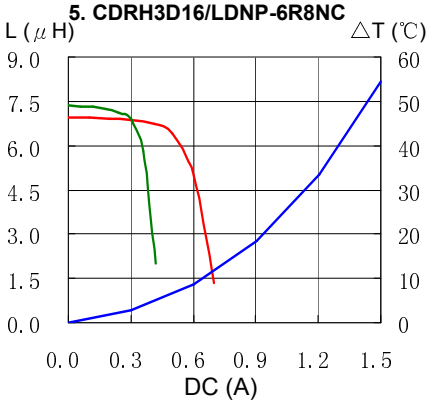
3. CDRH3D16/LDNP-4R7NC



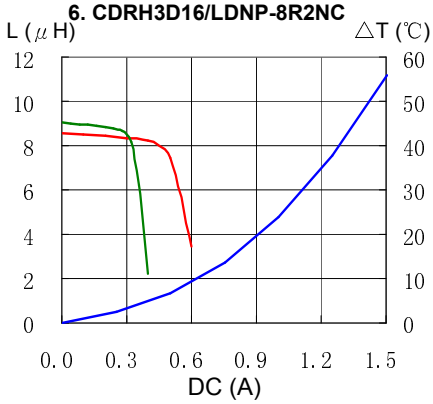
4. CDRH3D16/LDNP-5R6NC



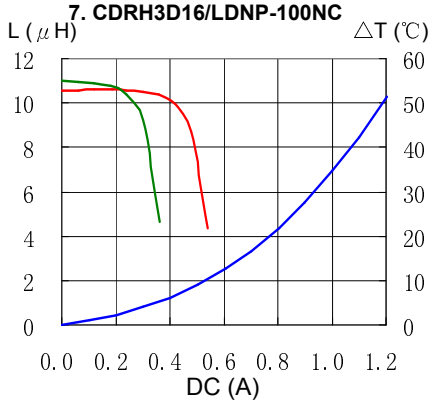
5. CDRH3D16/LDNP-6R8NC



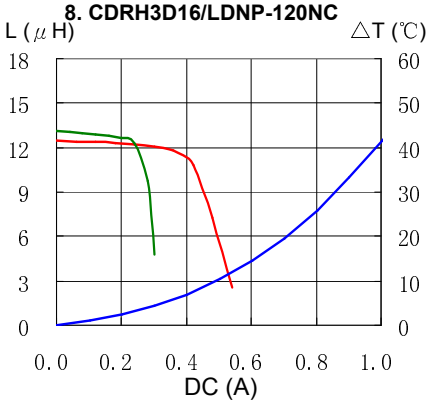
6. CDRH3D16/LDNP-8R2NC



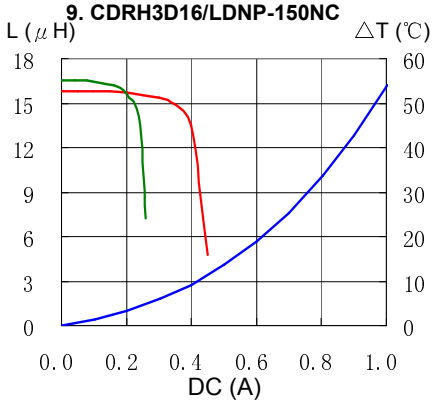
7. CDRH3D16/LDNP-100NC



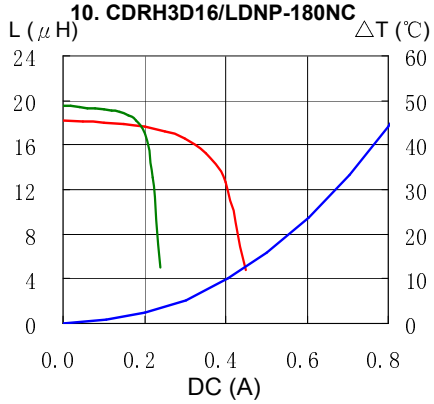
8. CDRH3D16/LDNP-120NC



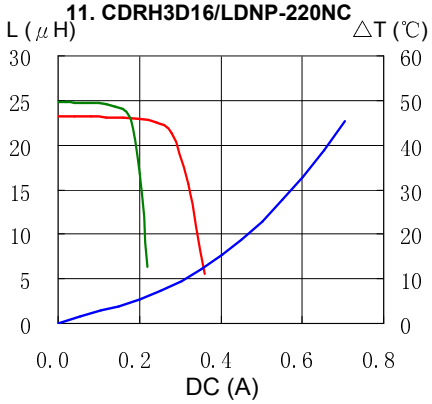
9. CDRH3D16/LDNP-150NC



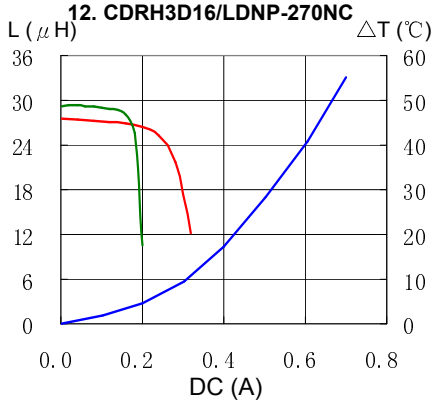
10. CDRH3D16/LDNP-180NC



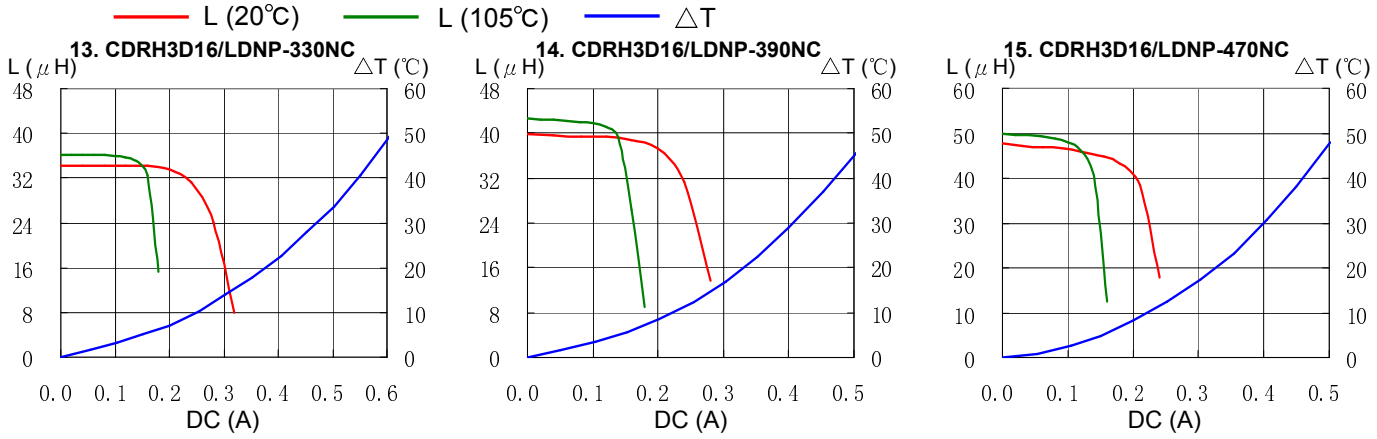
11. CDRH3D16/LDNP-220NC



12. CDRH3D16/LDNP-270NC



Saturation Current & Temperature Rise Graph



Solder Reflow Condition

