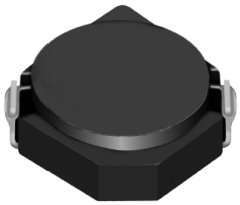
THE DATASHEET OF

CDRH3D14NP-220NC

SMD Power Inductor
CDRH3D14



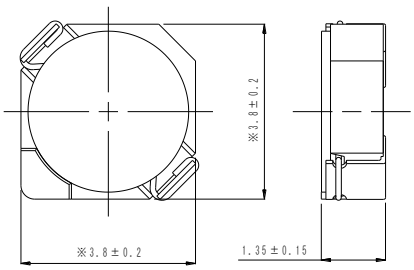
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:4.0 × 4.0 × 1.5 mm Max.
- Product weight: 70mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

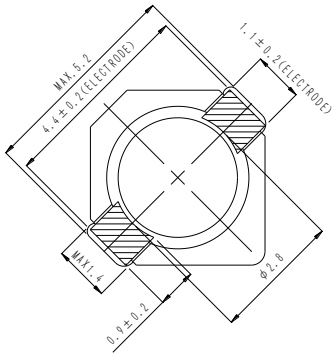
Environmental Data
- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+105℃
- Solder reflow temperature: 260 ℃ peak.

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

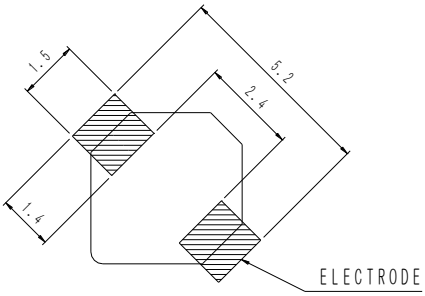
Applications
- Ideally used in Mobile phone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

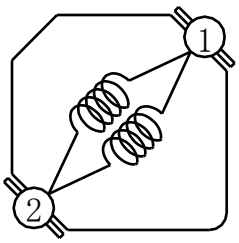
Dimension - [mm]



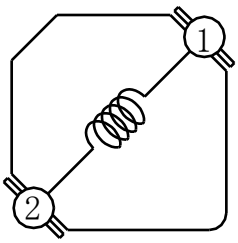


Land pattern and Schematics - [mm]





（1.2μH～3.3μH）



（3.9μH～22μH）

Revised: 9-Jan-17

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℃	
CDRH3D14NP-1R2NC	A	1.2±25%	45(36)	2.15	1.50	2.20
CDRH3D14NP-1R7NC	B	1.7±25%	63(50)	1.85	1.35	2.00
CDRH3D14NP-2R2NC	D	2.2±25%	69(55)	1.60	1.25	1.75
CDRH3D14NP-2R7NC	E	2.7±25%	88(70)	1.45	1.15	1.36
CDRH3D14NP-3R3NC	F	3.3±25%	100(80)	1.35	0.96	1.24
CDRH3D14NP-3R9NC	G	3.9±25%	135(110)	1.15	0.82	1.12
CDRH3D14NP-4R7NC	H	4.7±25%	150(120)	1.10	0.76	0.96
CDRH3D14NP-8R2NC	L	8.2±25%	238(190)	0.82	0.64	0.74
CDRH3D14NP-100NC	M	10±25%	262(210)	0.75	0.55	0.69
CDRH3D14NP-120NC	N	12±25%	350(280)	0.67	0.50	0.60
CDRH3D14NP-150NC	P	15±25%	488(390)	0.60	0.48	0.58
CDRH3D14NP-220NC	R	22±25%	575(460)	0.52	0.37	0.43

※1. Inductance measuring condition: at 100kHz.

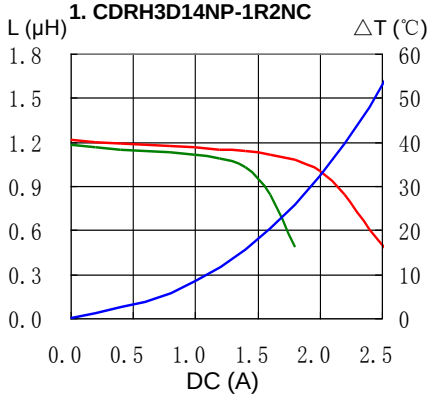
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

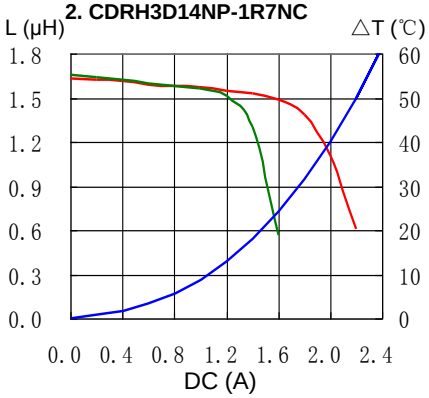
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

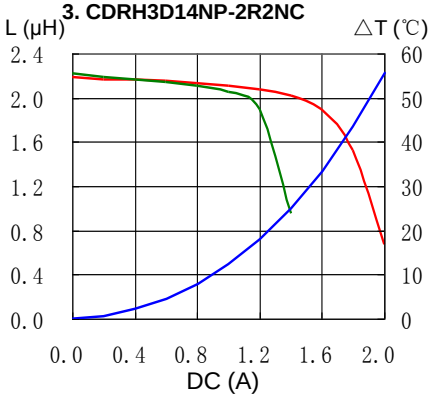
1. CDRH3D14NP-1R2NC



2. CDRH3D14NP-1R7NC



3. CDRH3D14NP-2R2NC



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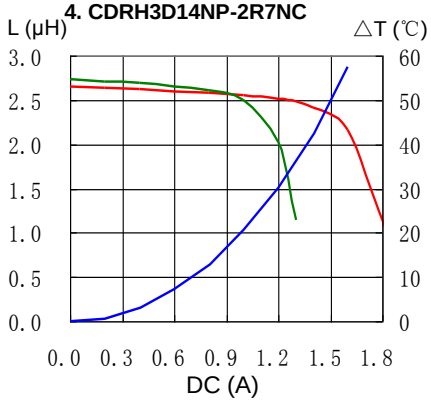
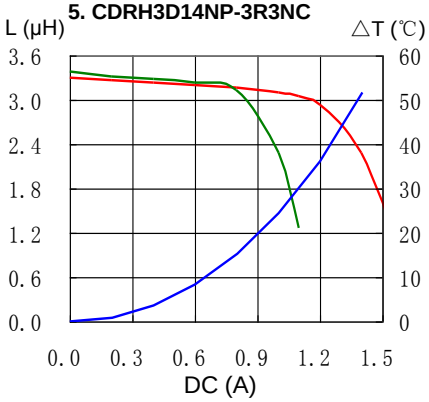
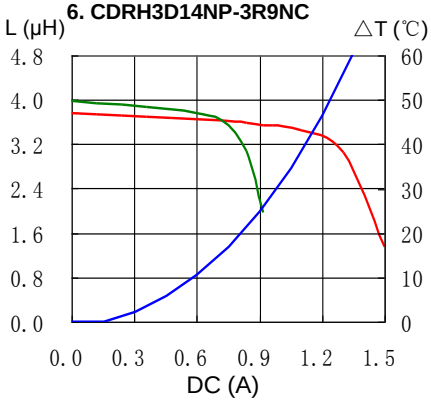


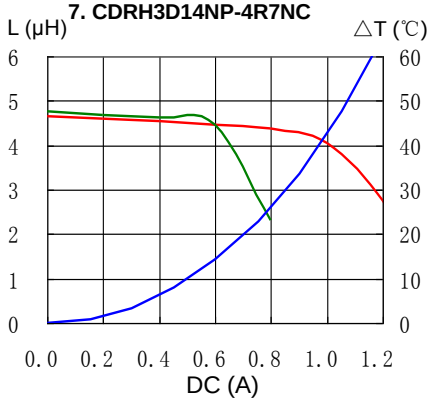
5. CDRH3D14NP-3R3NC



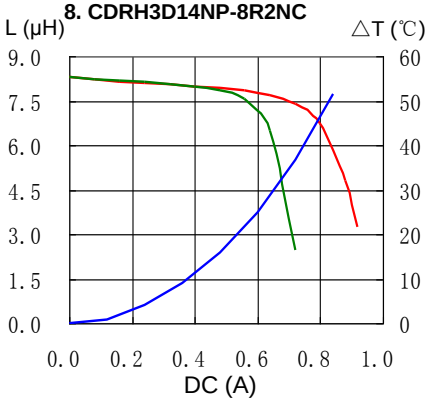
6. CDRH3D14NP-3R9NC



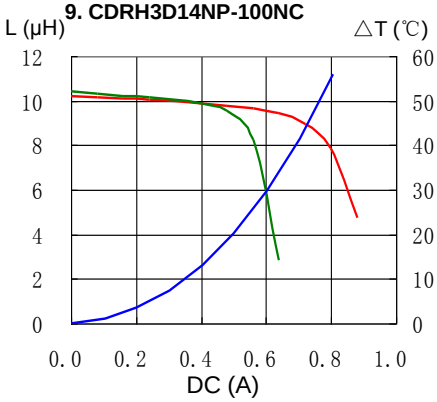
7. CDRH3D14NP-4R7NC



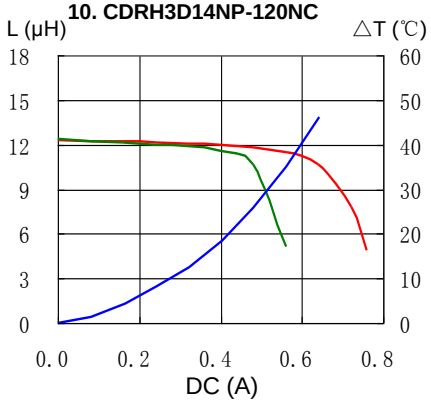
8. CDRH3D14NP-8R2NC



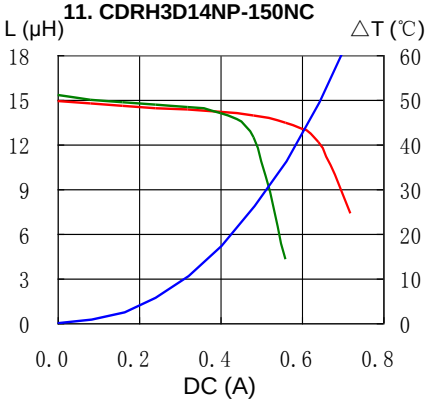
9. CDRH3D14NP-100NC



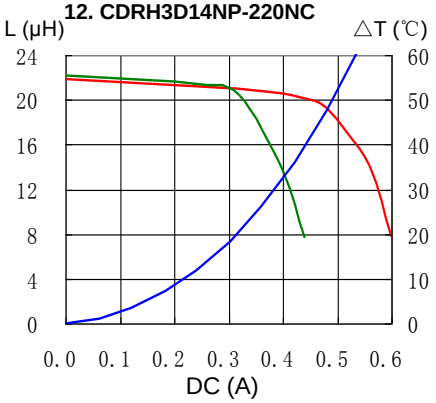
10. CDRH3D14NP-120NC



11. CDRH3D14NP-150NC

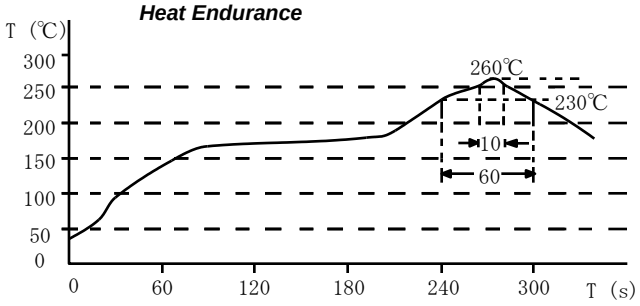


12. CDRH3D14NP-220NC

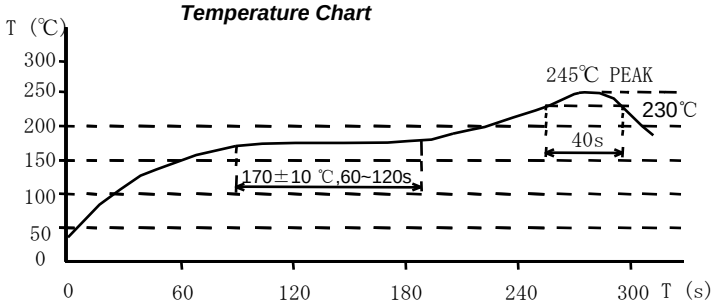


Solder Reflow Condition

Heat Endurance



Temperature Chart



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