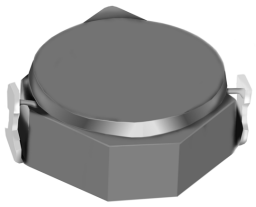
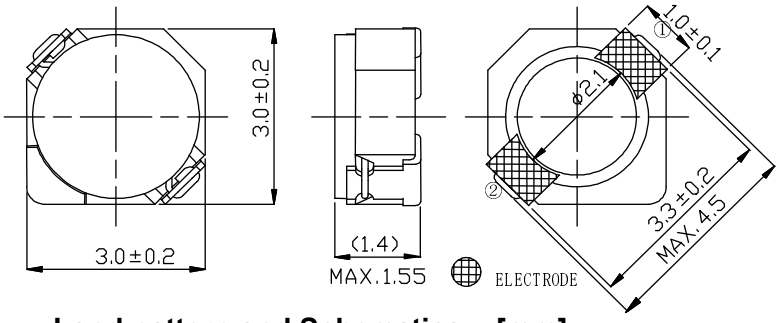
SMD Power Inductor
CDRH2D14

RoHS

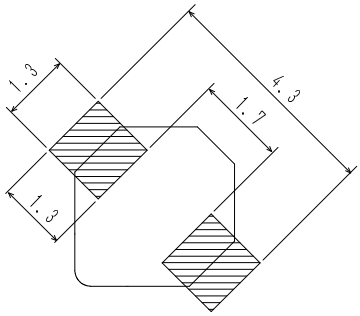
Halogen Free

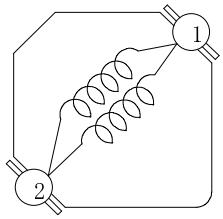


Dimension - [mm]

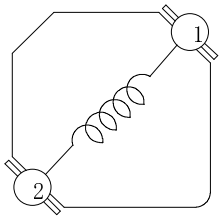


Land pattern and Schematics - [mm]





（0.21μH～2.7μH）



（3.3μH～12μH）

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L×W×H:3.2×3.2×1.55mm Max.
- Product weight: 46mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data
- Operating temperature range: -40℃~+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃
- Solder reflow temperature: 260 ℃ peak.

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

Applications
- Ideally used in Mobilephone,PDA,MP3, DSC/DVC, etc. as DC-DC converter inductors.

Revised: 17-Sep-12

SMD Power Inductor
CDRH2D14

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℃	
CDRH2D14NP-R21NC	N	0.21±35%	21(16)	3.80	2.70	4.74
CDRH2D14NP-R36NC	P	0.36±35%	26(20)	3.25	2.55	4.10
CDRH2D14NP-R60NC	Q	0.60±35%	33(25)	2.20	1.75	3.45
CDRH2D14NP-R82NC	R	0.82±35%	39(30)	2.10	1.68	2.85
CDRH2D14NP-1R2NC	S	1.2±30%	49(38)	1.95	1.35	2.75
CDRH2D14NP-1R5NC	A	1.5±30%	63(50)	1.80	1.20	2.00
CDRH2D14NP-1R8NC	B	1.8±30%	75(60)	1.65	1.10	1.80
CDRH2D14NP-2R2NC	C	2.2±30%	94(75)	1.50	1.00	1.60
CDRH2D14NP-2R7NC	D	2.7±30%	106(85)	1.35	0.90	1.40
CDRH2D14NP-3R3NC	E	3.3±30%	125(100)	1.20	0.82	1.24
CDRH2D14NP-3R9NC	F	3.9±30%	138(110)	1.10	0.75	1.12
CDRH2D14NP-4R7NC	G	4.7±30%	169(135)	1.00	0.68	1.00
CDRH2D14NP-5R6NC	H	5.6±30%	188(150)	0.95	0.60	0.98
CDRH2D14NP-6R8NC	J	6.8±30%	213(170)	0.85	0.56	0.92
CDRH2D14NP-8R2NC	K	8.2±30%	281(225)	0.80	0.51	0.80
CDRH2D14NP-100NC	L	10±30%	294(235)	0.70	0.46	0.76
CDRH2D14NP-120NC	M	12±30%	394(315)	0.62	0.42	0.64

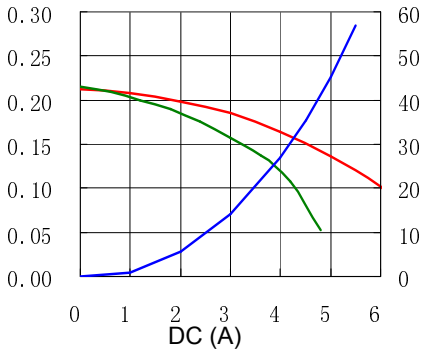
※1 Inductance measuring condition: at 100 kHz.
※2 Saturation current: The DC current at which the inductance decreases to 65% of it's nominal value.
※3 Temperature rise current: The DC current at which the temperature rise is △T＝40℃.(Ta＝20℃)

Revised: 17-Sep-12

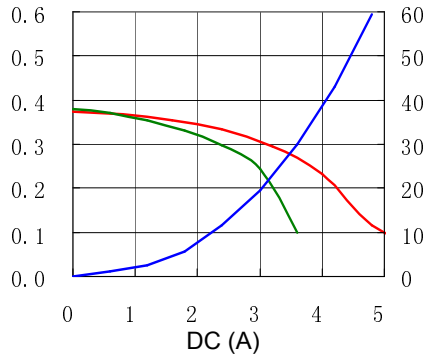
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

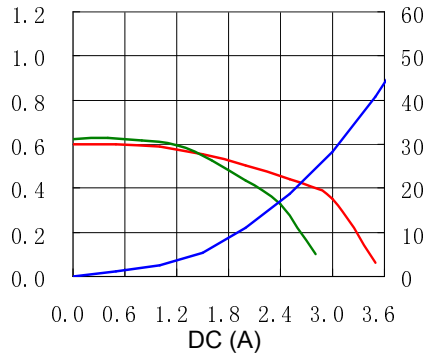
1. CDRH2D14NP-R21NC



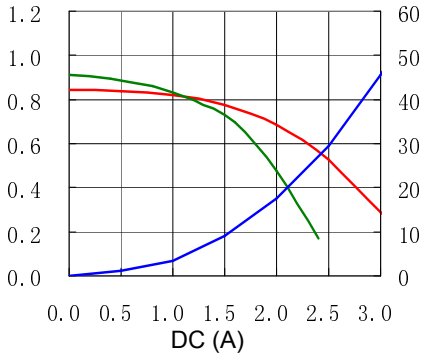
2. CDRH2D14NP-R36NC



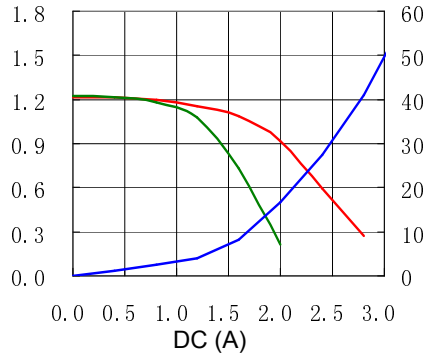
3. CDRH2D14NP-R60NC



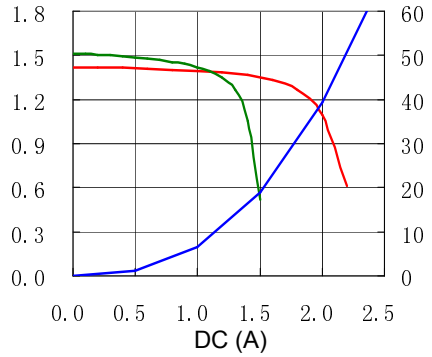
4. CDRH2D14NP-R82NC



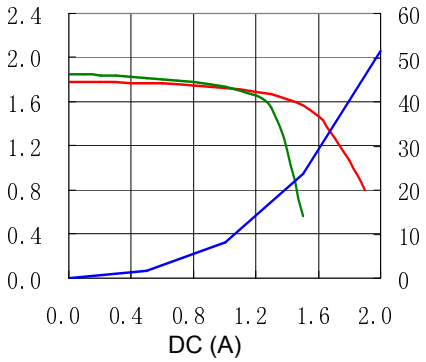
5. CDRH2D14NP-1R2NC



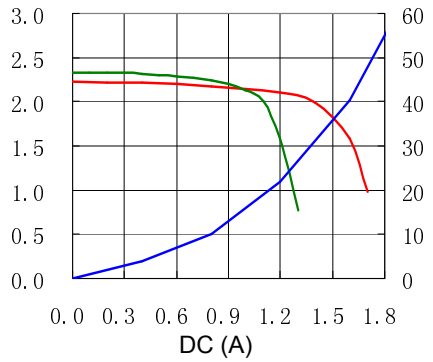
6. CDRH2D14NP-1R5NC



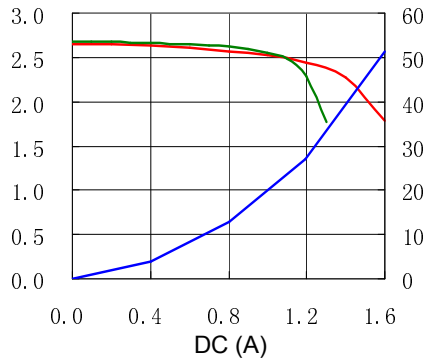
7. CDRH2D14NP-1R8NC



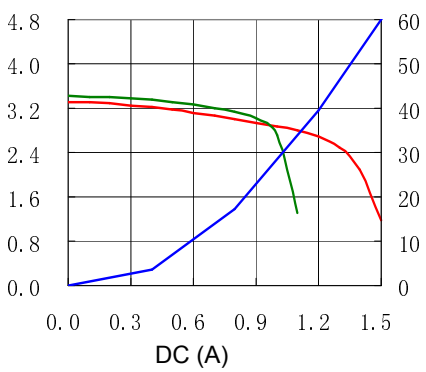
8. CDRH2D14NP-2R2NC



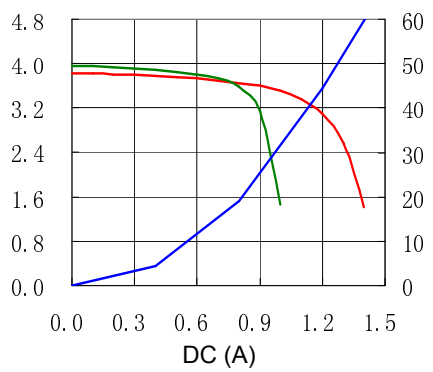
9. CDRH2D14NP-2R7NC



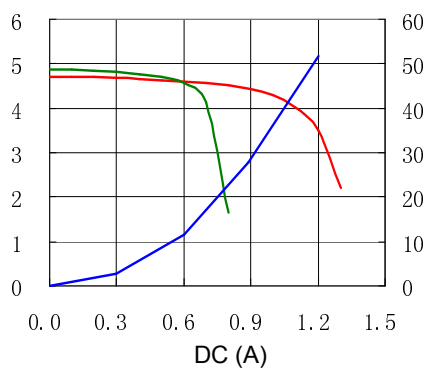
10. CDRH2D14NP-3R3NC



11. CDRH2D14NP-3R9NC



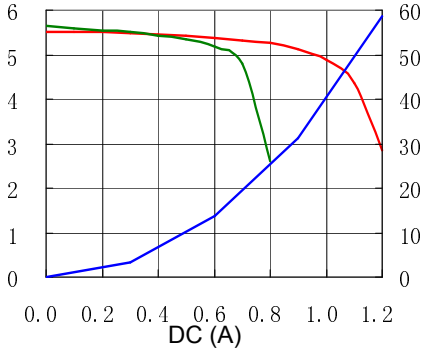
12. CDRH2D14NP-4R7NC



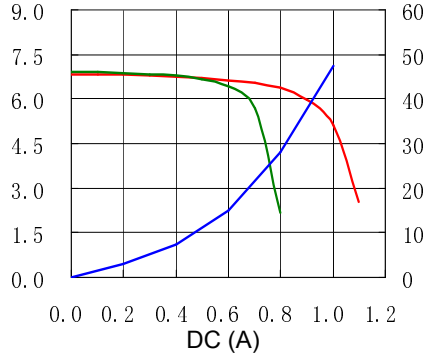
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

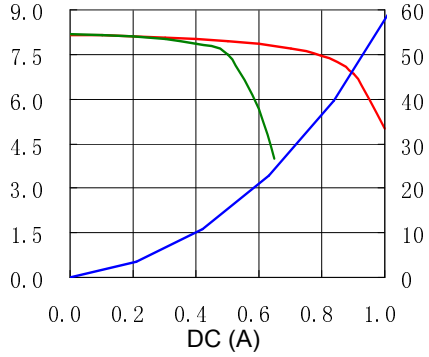
13. CDRH2D14NP-5R6NC



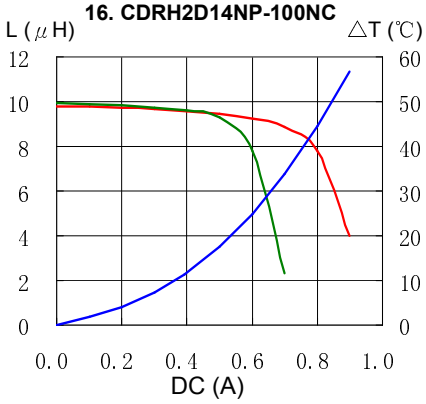
14. CDRH2D14NP-6R8NC



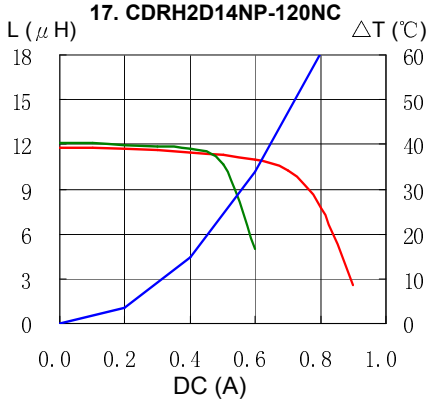
15. CDRH2D14NP-8R2NC



16. CDRH2D14NP-100NC

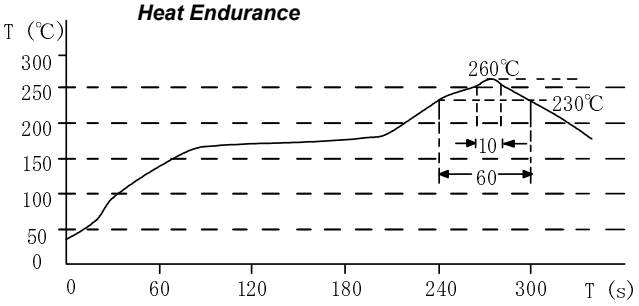


17. CDRH2D14NP-120NC



Solder Reflow Condition

Heat Endurance



Temperature Chart

