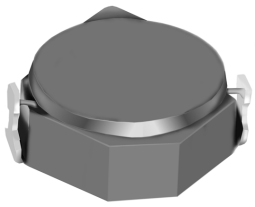
SMD Power Inductor
CDRH2D14B/LD

RoHS

Halogen Free



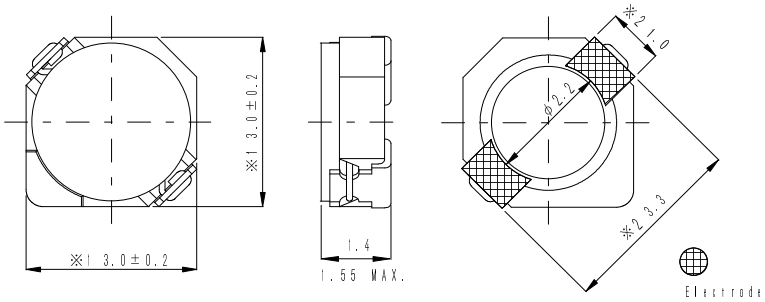
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:3.2 × 3.2 × 1.55mm Max.
- Product weight: 47mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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

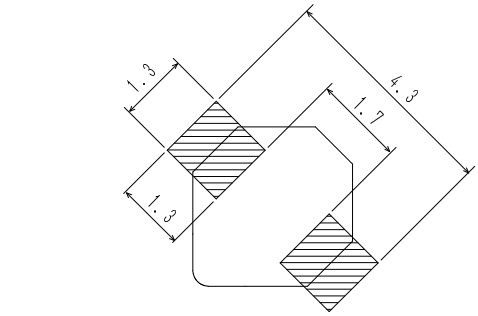
Packaging
- Carrier tape and reel packaging
- 7.0"diameter reel
- 1000pcs per reel

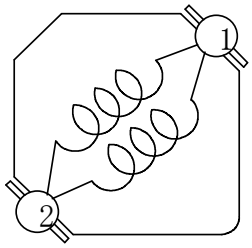
Applications
- Ideally used in Mobilephone,PDA,MP3, DSC/DVC, etc. as DC-DC converter inductors.

Dimension - [mm]

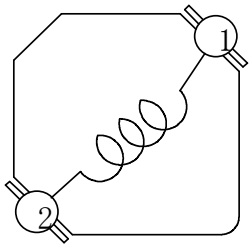


Land pattern and Schematics - [mm]





（1.2μH～3.9μH）



（4.7μH～39.0μH）

Revised: 7-Jan-14

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20℃)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20℃	at 100℃	
CDRH2D14B/LDNP-1R2NC	Q	1.2±30%	35m(28m)	1.30	1.00	2.50
CDRH2D14B/LDNP-1R5NC	R	1.5±30%	49m(39m)	1.20	0.90	2.10
CDRH2D14B/LDNP-1R8NC	S	1.8±30%	60m(48m)	1.10	0.80	1.90
CDRH2D14B/LDNP-2R2NC	A	2.2±30%	82m(65m)	1.00	0.70	1.60
CDRH2D14B/LDNP-2R7NC	B	2.7±30%	92m(73m)	0.88	0.65	1.50
CDRH2D14B/LDNP-3R3NC	C	3.3±30%	94m(75m)	0.78	0.57	1.35
CDRH2D14B/LDNP-3R9NC	M	3.9±30%	109m(87m)	0.75	0.52	1.30
CDRH2D14B/LDNP-4R7NC	D	4.7±30%	0.13(0.10)	0.71	0.50	1.13
CDRH2D14B/LDNP-5R6NC	N	5.6±30%	0.14(0.11)	0.60	0.45	1.10
CDRH2D14B/LDNP-6R8NC	E	6.8±30%	0.19(0.15)	0.56	0.40	0.97
CDRH2D14B/LDNP-8R2NC	O	8.2±30%	0.24(0.19)	0.50	0.36	0.85
CDRH2D14B/LDNP-100MC	F	10.0±20%	0.25(0.20)	0.47	0.33	0.76
CDRH2D14B/LDNP-120MC	G	12.0±20%	0.34(0.27)	0.43	0.30	0.64
CDRH2D14B/LDNP-150MC	H	15.0±20%	0.39(0.31)	0.38	0.27	0.59
CDRH2D14B/LDNP-180MC	P	18.0±20%	0.46(0.37)	0.36	0.25	0.54
CDRH2D14B/LDNP-220MC	I	22.0±20%	0.57(0.45)	0.31	0.22	0.47
CDRH2D14B/LDNP-270MC	J	27.0±20%	0.68(0.54)	0.28	0.20	0.43
CDRH2D14B/LDNP-330MC	K	33.0±20%	0.78(0.61)	0.26	0.18	0.41
CDRH2D14B/LDNP-390MC	L	39.0±20%	1.04(0.83)	0.24	0.16	0.35

※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℃)

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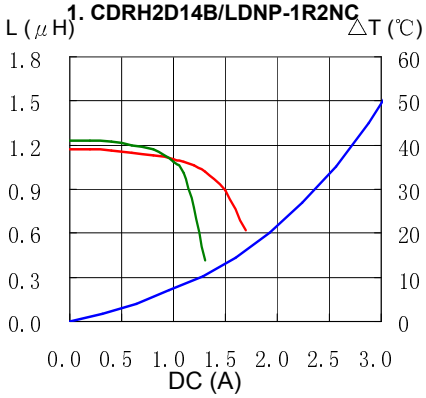
CDRH2D14B/LD

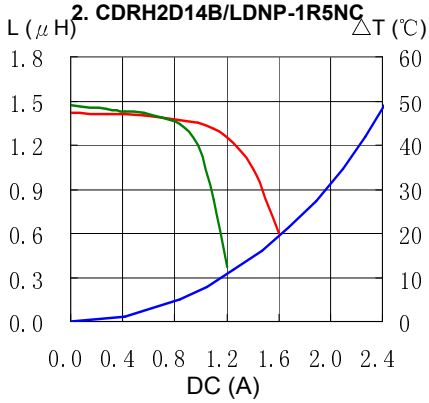
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

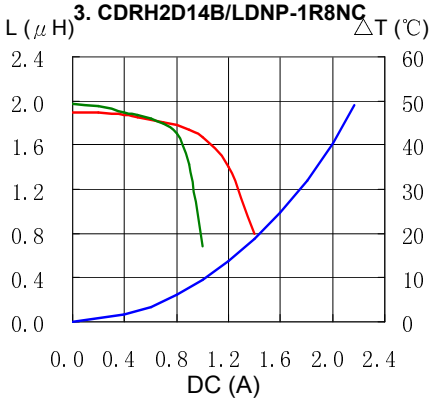
1. CDRH2D14B/LDNP-1R2NC



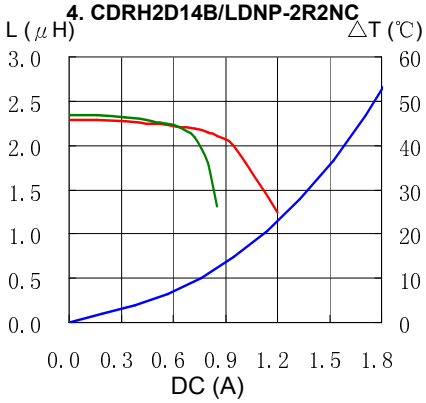
2. CDRH2D14B/LDNP-1R5NC



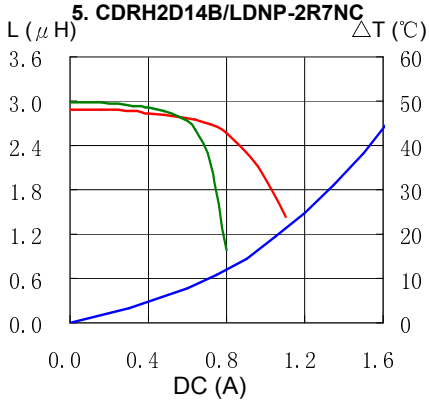
3. CDRH2D14B/LDNP-1R8NC



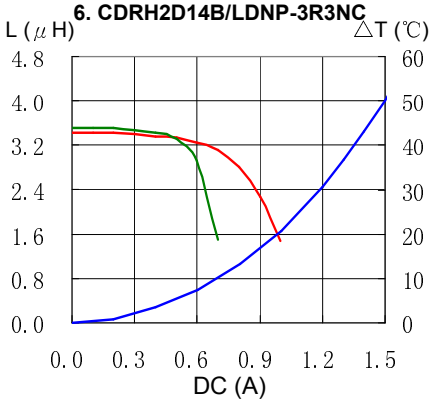
4. CDRH2D14B/LDNP-2R2NC



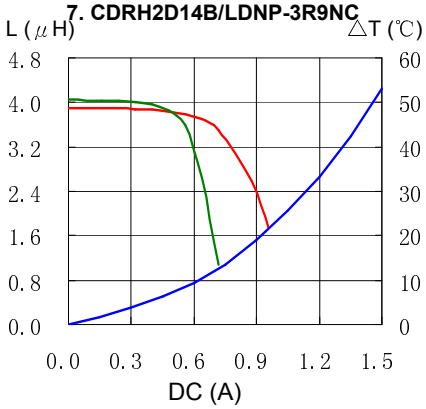
5. CDRH2D14B/LDNP-2R7NC



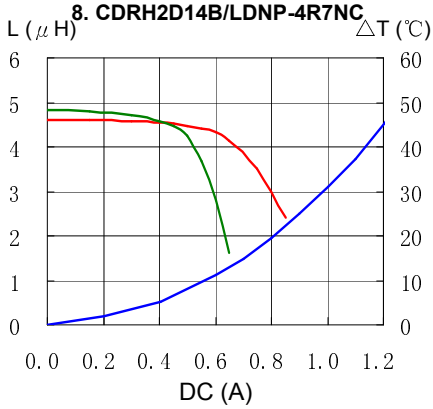
6. CDRH2D14B/LDNP-3R3NC



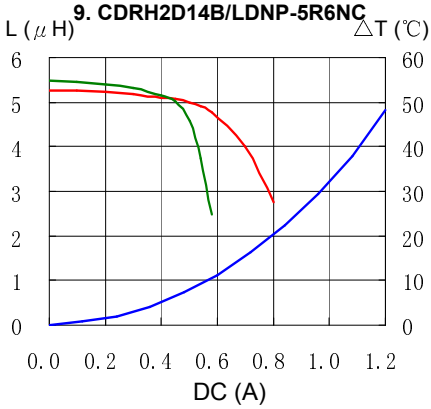
7. CDRH2D14B/LDNP-3R9NC



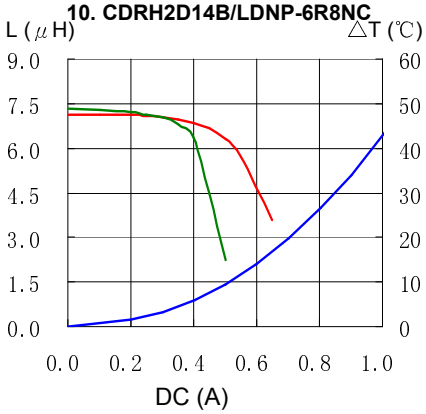
8. CDRH2D14B/LDNP-4R7NC



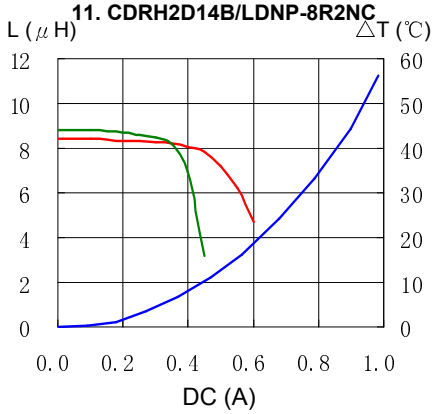
9. CDRH2D14B/LDNP-5R6NC



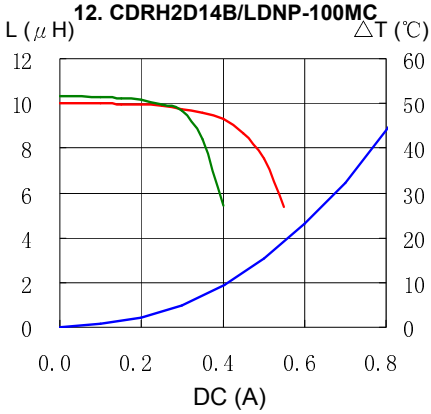
10. CDRH2D14B/LDNP-6R8NC



11. CDRH2D14B/LDNP-8R2NC



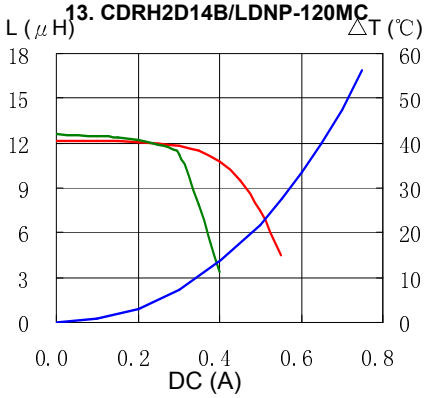
12. CDRH2D14B/LDNP-100MC



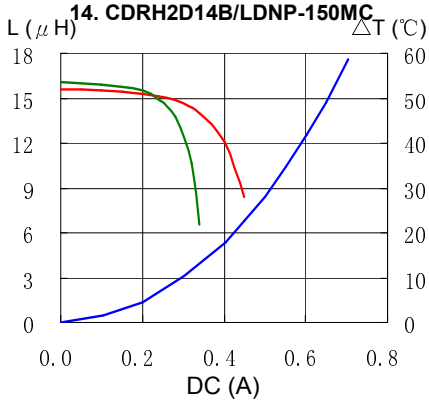
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

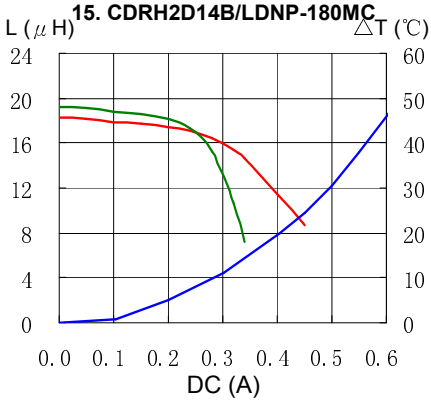
13. CDRH2D14B/LDNP-120MC



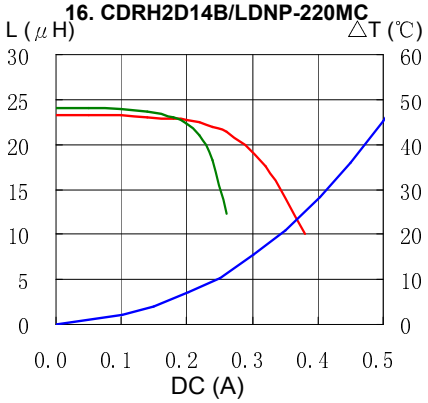
14. CDRH2D14B/LDNP-150MC



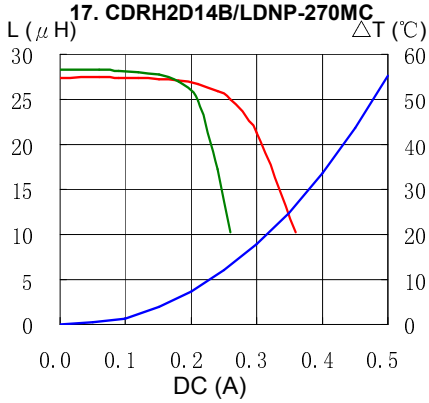
15. CDRH2D14B/LDNP-180MC



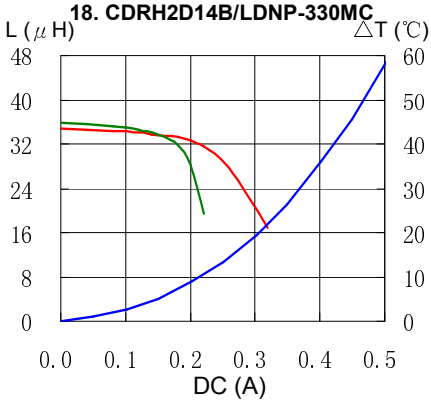
16. CDRH2D14B/LDNP-220MC



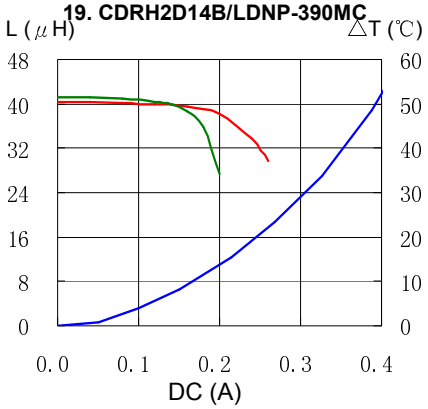
17. CDRH2D14B/LDNP-270MC



18. CDRH2D14B/LDNP-330MC

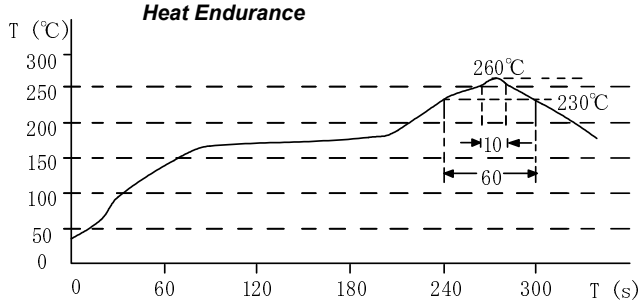


19. CDRH2D14B/LDNP-390MC

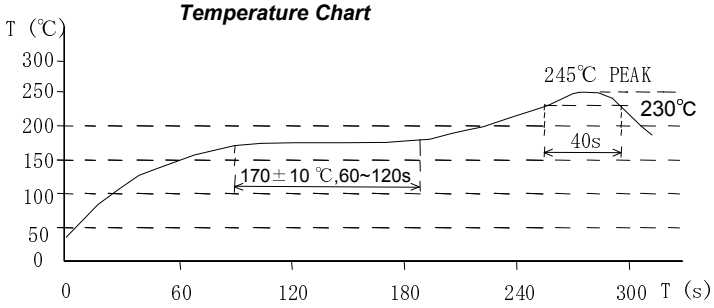


Solder Reflow Condition

Heat Endurance



Temperature Chart



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