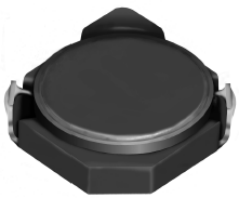
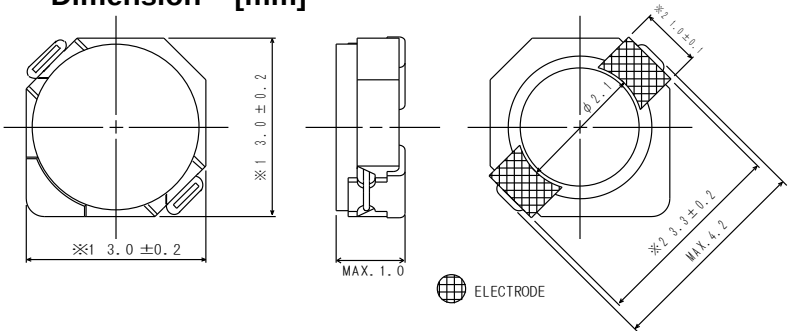
SMD Power Inductor
CDRH2D09C

RoHS

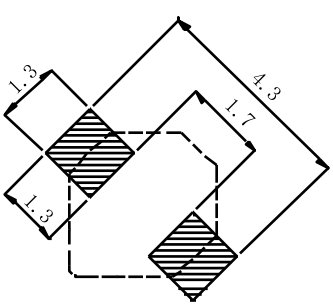


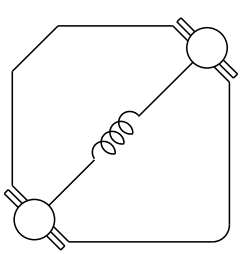
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:3.2 × 3.2 × 1.0 mm Max.
- Product weight: 28mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]





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
- 1500pcs per reel

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

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sumida

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 105℃	
CDRH2D09CNP-1R2NC	A	1.2±25%	78m(62.4m)	0.83	0.64	1.55
CDRH2D09CNP-1R5NC	B	1.5±25%	88m(70.6m)	0.70	0.52	1.35
CDRH2D09CNP-2R4NC	D	2.4±25%	119m(95.0m)	0.58	0.45	1.10
CDRH2D09CNP-3R3NC	F	3.3±25%	174m(139m)	0.50	0.38	0.90
CDRH2D09CNP-4R7NC	H	4.7±25%	238m(190m)	0.38	0.30	0.80
CDRH2D09CNP-6R4NC	K	6.4±25%	290m(232m)	0.36	0.27	0.65
CDRH2D09CNP-8R2NC	L	8.2±25%	0.40(0.32)	0.31	0.25	0.56
CDRH2D09CNP-100NC	M	10±25%	0.50(0.40)	0.30	0.23	0.51
CDRH2D09CNP-120NC	N	12±25%	0.55(0.44)	0.27	0.20	0.45
CDRH2D09CNP-150NC	P	15±25%	0.65(0.52)	0.24	0.18	0.42
CDRH2D09CNP-180NC	Q	18±25%	0.77(0.61)	0.22	0.17	0.38
CDRH2D09CNP-220NC	R	22±25%	0.94(0.75)	0.20	0.15	0.35
CDRH2D09CNP-270NC	S	27±25%	1.11(0.88)	0.16	0.12	0.32

※1. Inductance measuring condition: at 100kHz.

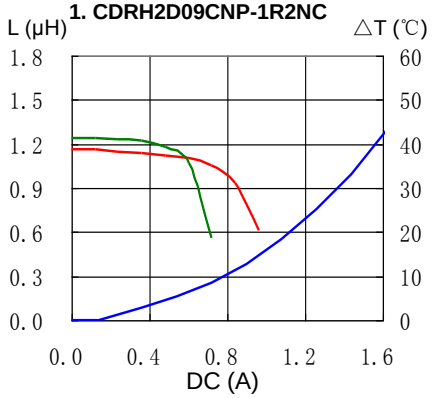
※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

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

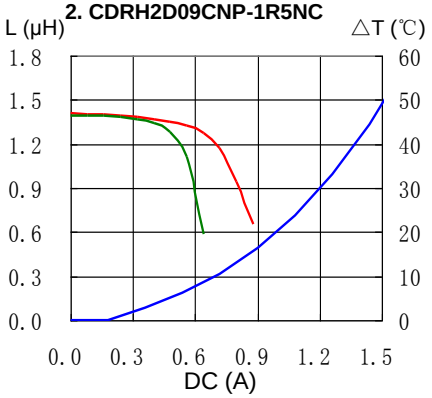
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

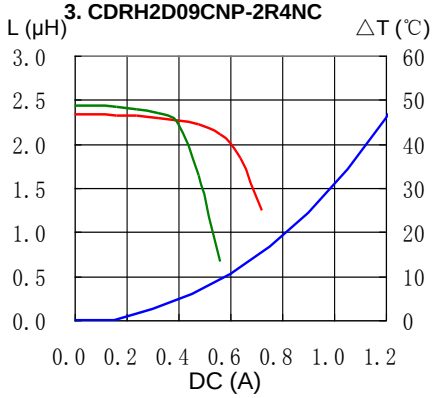
1. CDRH2D09CNP-1R2NC



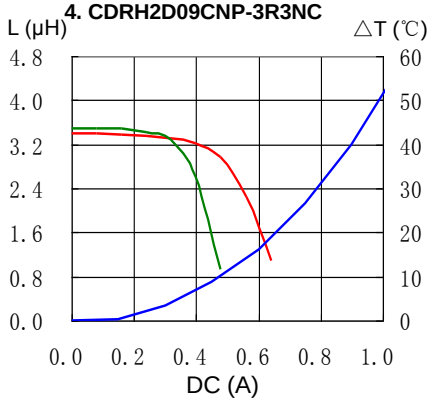
2. CDRH2D09CNP-1R5NC



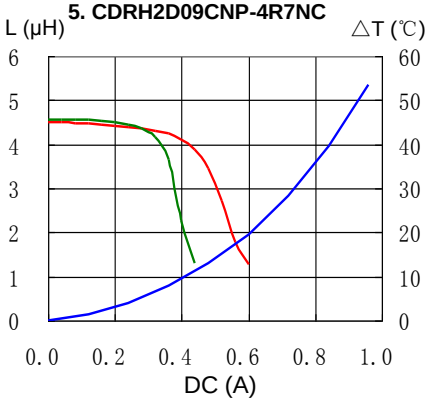
3. CDRH2D09CNP-2R4NC



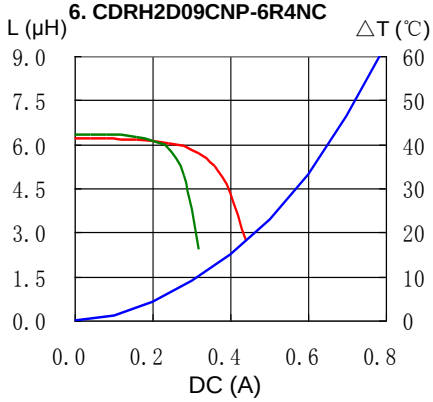
4. CDRH2D09CNP-3R3NC



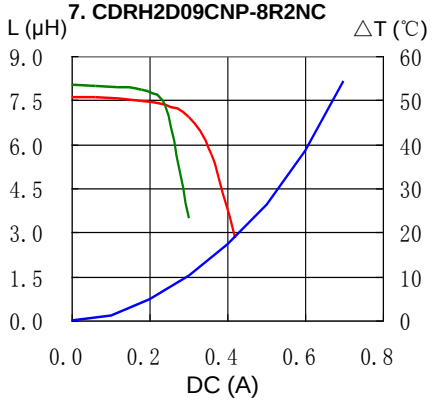
5. CDRH2D09CNP-4R7NC



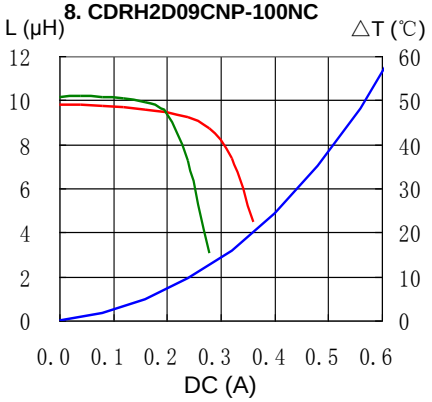
6. CDRH2D09CNP-6R4NC



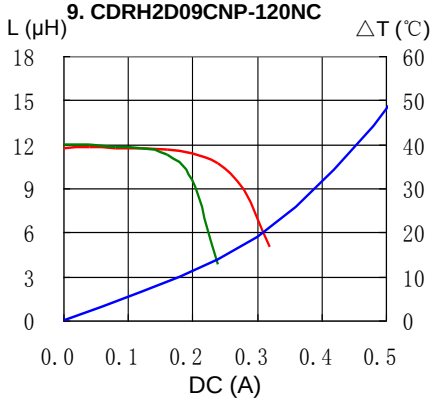
7. CDRH2D09CNP-8R2NC



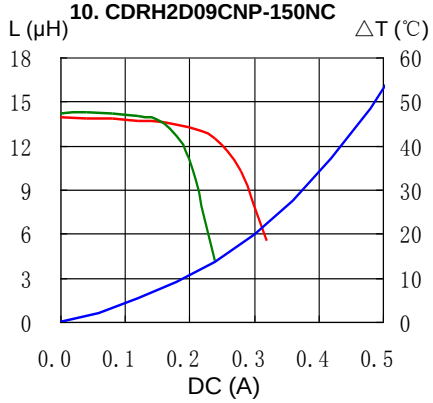
8. CDRH2D09CNP-100NC



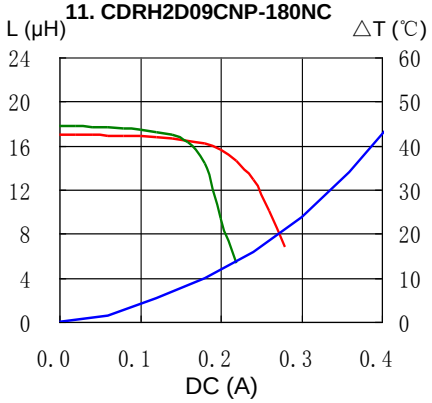
9. CDRH2D09CNP-120NC



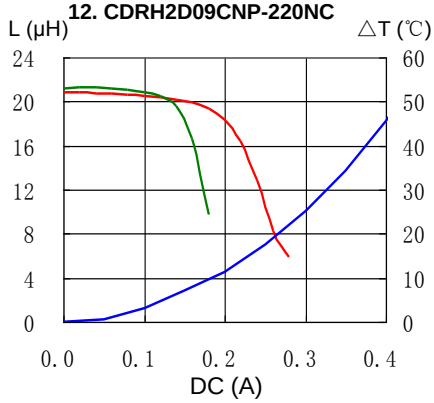
10. CDRH2D09CNP-150NC



11. CDRH2D09CNP-180NC



12. CDRH2D09CNP-220NC



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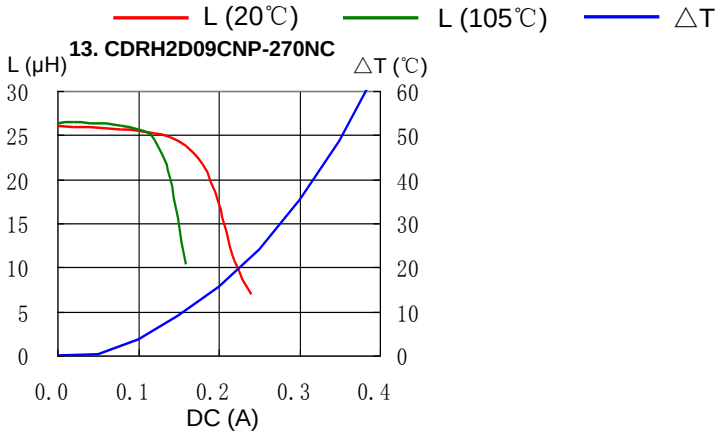
Saturation Current & Temperature Rise Graph



Solder Reflow Condition