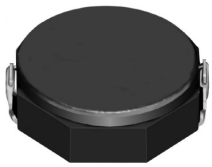
SMD Power Inductor
CDRH8D28

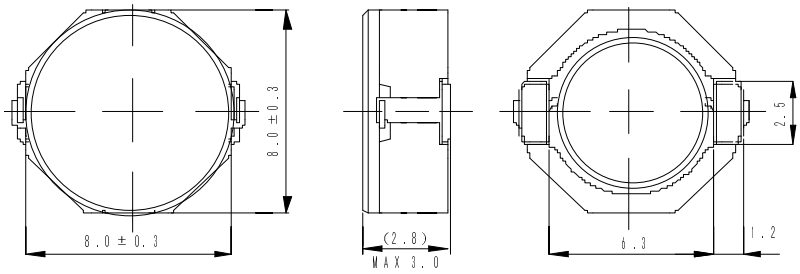
RoHS

Halogen Free

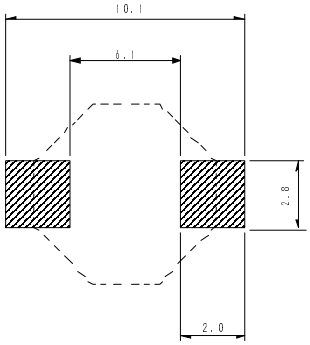


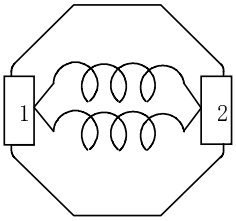
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:8.3 × 8.3 × 3.0 mm Max.
- Product weight: 0.57g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]

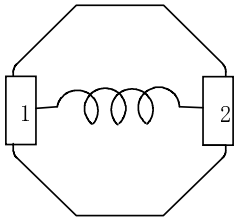


Land pattern and Schematics - [mm]





（1.0μH～15μH）



（22μH～100μH）

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
- 12.9"diameter reel
- 1000pcs per reel

Applications
- Ideally used in Notebook PC, Game machine, HDD, DVC, LCD TV etc as DC-DC converter inductors.

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
CDRH8D28NP-1R0NC	1R0	1.0±30%	11.0(8)	6.50	7.00
CDRH8D28NP-2R5NC	2R5	2.5±30%	15.6(12)	4.50	6.40
CDRH8D28NP-3R3NC	3R3	3.3±30%	18.2(14)	4.00	6.00
CDRH8D28NP-4R7NC	4R7	4.7±30%	24.7(19)	3.40	4.50
CDRH8D28NP-7R3NC	7R3	7.3±30%	39.0(30)	2.80	3.40
CDRH8D28NP-100NC	100	10±30%	47.0(36)	2.50	3.20
CDRH8D28NP-150NC	150	15±30%	69.0(53)	1.90	2.35
CDRH8D28NP-220NC	220	22±30%	99.0(76)	1.60	1.85
CDRH8D28NP-330NC	330	33±30%	156(120)	1.30	1.45
CDRH8D28NP-470NC	470	47±30%	195(150)	1.15	1.30
CDRH8D28NP-680NC	680	68±30%	286(220)	0.92	0.98
CDRH8D28NP-101NC	101	100±30%	430(330)	0.75	0.80

※1. Inductance measuring conditions at 100kHz.

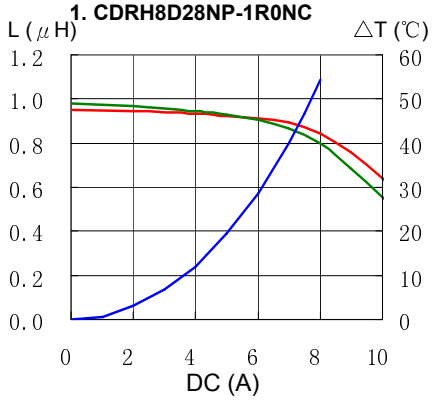
※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

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

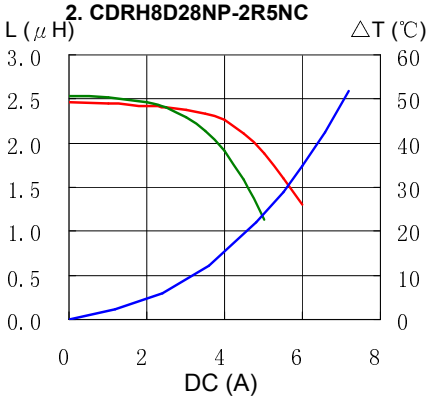
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

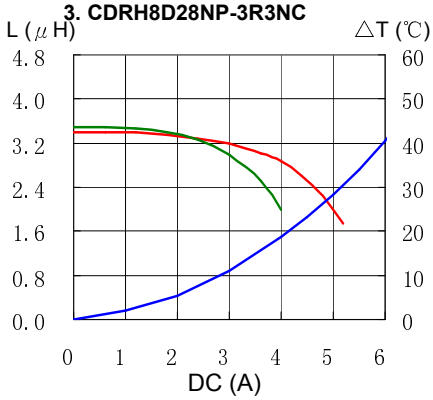
1. CDRH8D28NP-1R0NC



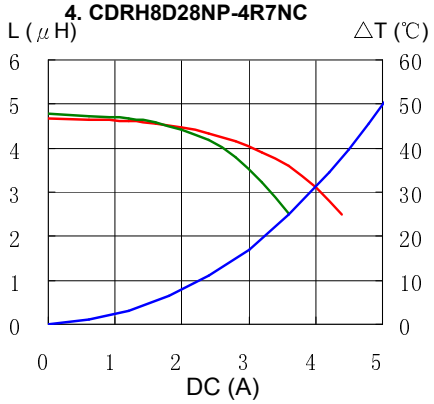
2. CDRH8D28NP-2R5NC



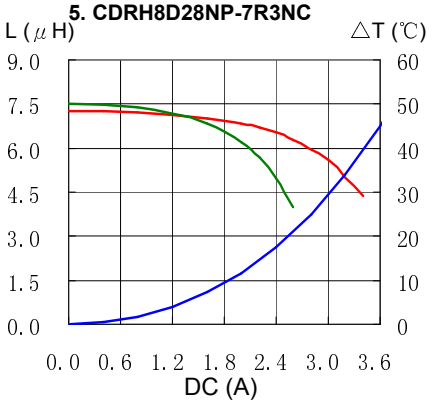
3. CDRH8D28NP-3R3NC



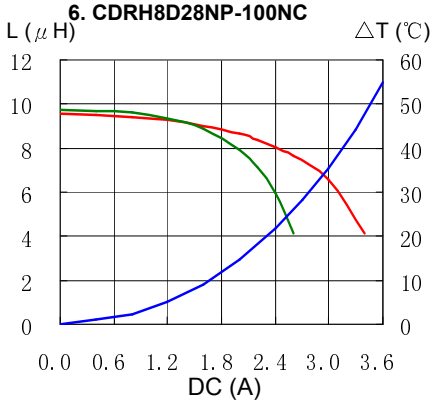
4. CDRH8D28NP-4R7NC



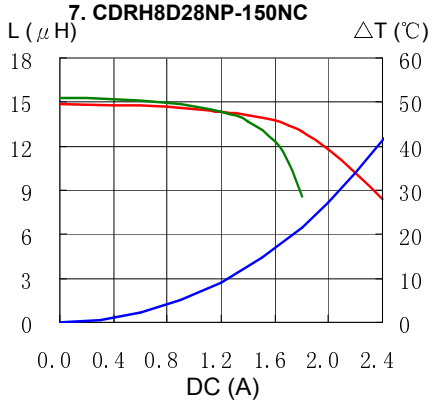
5. CDRH8D28NP-7R3NC



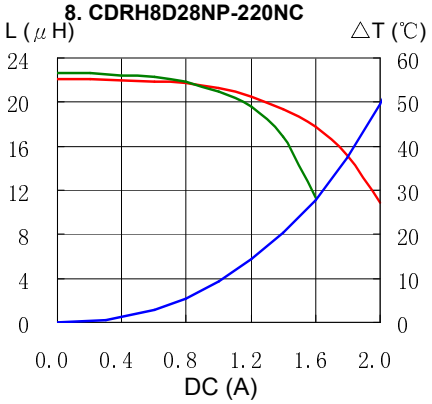
6. CDRH8D28NP-100NC



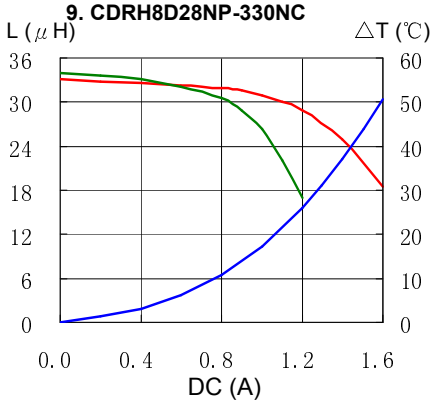
7. CDRH8D28NP-150NC



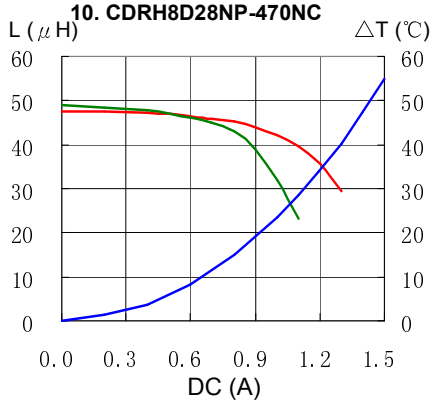
8. CDRH8D28NP-220NC



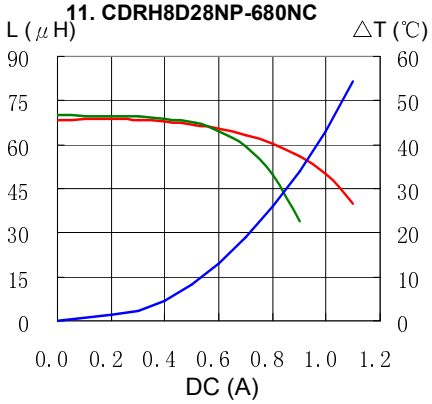
9. CDRH8D28NP-330NC



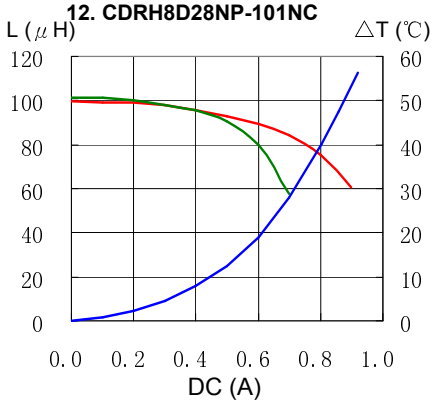
10. CDRH8D28NP-470NC



11. CDRH8D28NP-680NC



12. CDRH8D28NP-101NC



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Solder Reflow Condition