SMD Power Inductor

CDRH4D28C/LD

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:5.1 × 5.1 × 3.0 mm Max.
- Product weight: 0.21g(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.

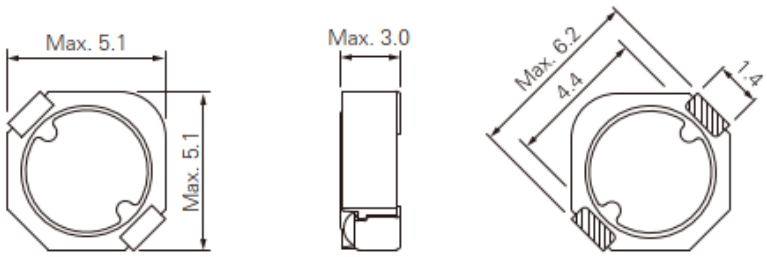
Packaging

- Carrier tape and reel packaging
- 12.9"diameter reel
- 2,000pcs per reel

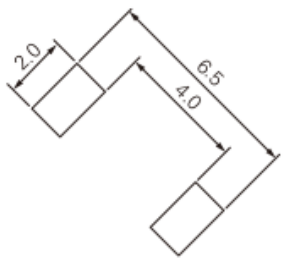
Applications

- Ideally used in Mobile phone,PDA,MP3,HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors.

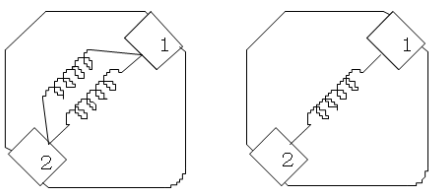
Dimension - [mm]



Land patterns - [mm]



Schematics



（1.0μH～6.8μH） （10μH～100μH）

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Electrical Characteristics

Part No.	Inductance (μH) [within] ※1	D.C.R (mΩ) Max. (Typ.) (20℃)	Saturation Current (A) Max. (Typ.) ※2	Temperature Rise Current (A) Max. (Typ.) ※3
CDRH4D28CLDNP-1R0PC	1.0±25%	17.5 14,0)	3.00 (3.25)	(4.90)
CDRH4D28CLDNP-2R2PC	2.2±25%	23.8 (19.0)	2.00 (2.32)	(3.60)
CDRH4D28CLDNP-3R3PC	3.3±25%	28.9 (23.0)	1.60 (1.85)	(3.20)
CDRH4D28CLDNP-4R7PC	4.7±25%	36.3 (29.0)	1.50 (1.72)	(2.90)
CDRH4D28CLDNP-6R8PC	6.8±25%	48.8 (39.0)	1.20 (1.35)	(2.40)
CDRH4D28CLDNP-100PC	10±25%	67.5 (54.0)	0.90 (1.13)	(1.80)
CDRH4D28CLDNP-150PC	15±25%	93.4 (75.0)	0.81 (0.92)	(1.60)
CDRH4D28CLDNP-220PC	22±25%	140 (112)	0.65 (0.72)	(1.25)
CDRH4D28CLDNP-330PC	33±25%	223 (179)	0.55 (0.62)	(0.92)
CDRH4D28CLDNP-470PC	47±25%	272 (218)	0.43 (0.49)	(0.86)
CDRH4D28CLDNP-680PC	68±25%	366 (293)	0.36 (0.41)	(0.72)
CDRH4D28CLDNP-101PC	100±25%	520 (416)	0.30 (0.34)	(0.61)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of its initial value.

※3 The temperature rise: The value of DC current when the temperature rise is △T＝40℃ (Ta＝20℃).

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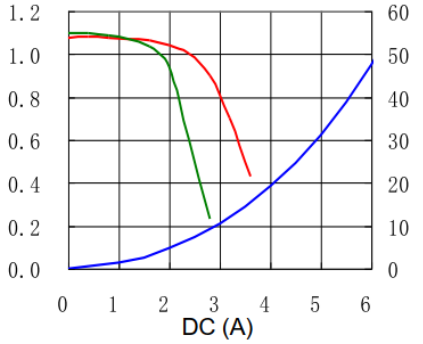
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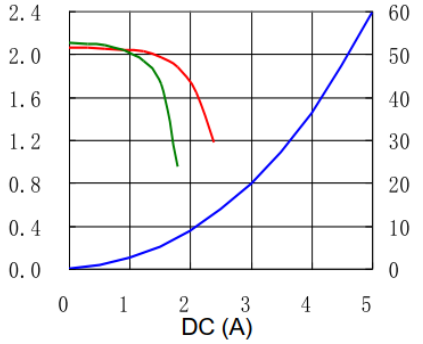
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

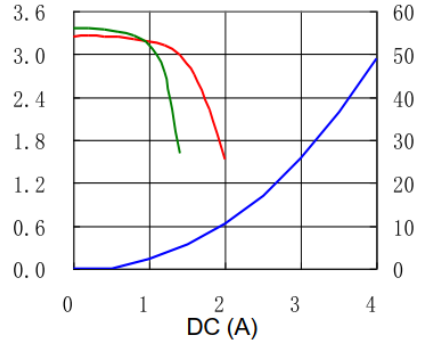
1. CDRH4D28CLDNP-1R0PC



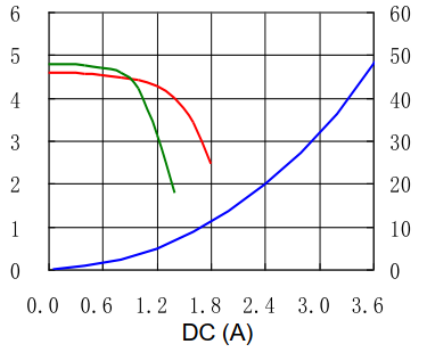
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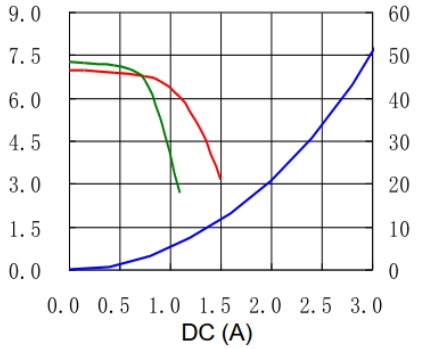
3. CDRH4D28CLDNP-3R3PC



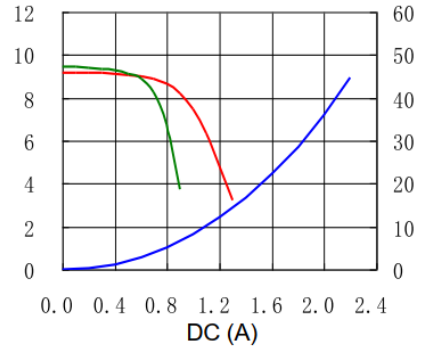
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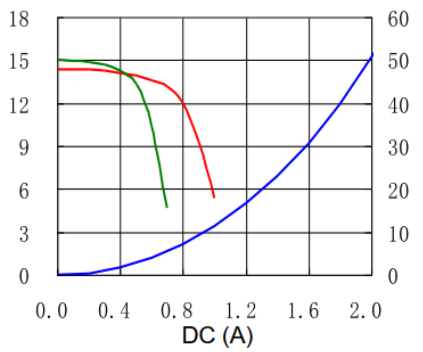
5. CDRH4D28CLDNP-6R8PC



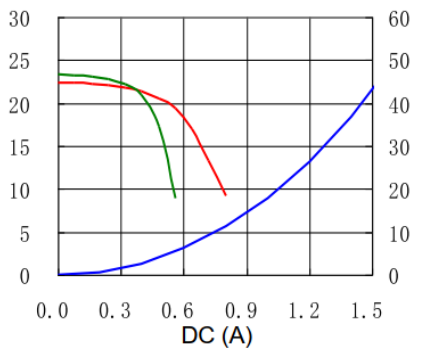
6. CDRH4D28CLDNP-100PC



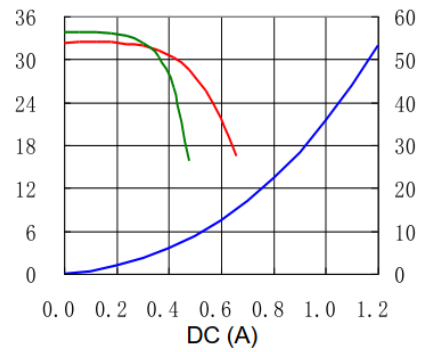
7. CDRH4D28CLDNP-150PC



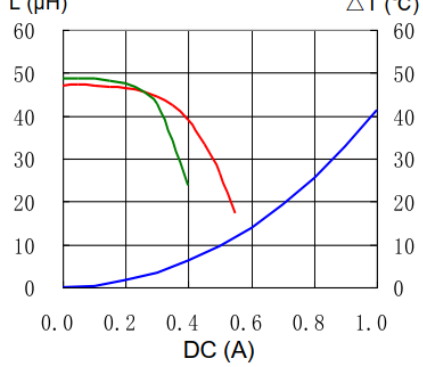
8. CDRH4D28CLDNP-220PC



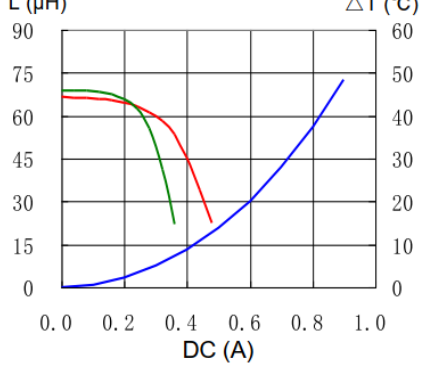
9. CDRH4D28CLDNP-330PC



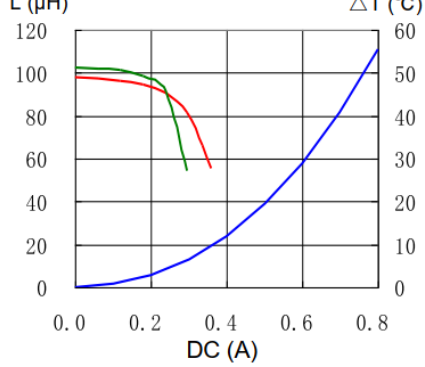
10. CDRH4D28CLDNP-470PC



11. CDRH4D28CLDNP-680PC



12. CDRH4D28CLDNP-101PC



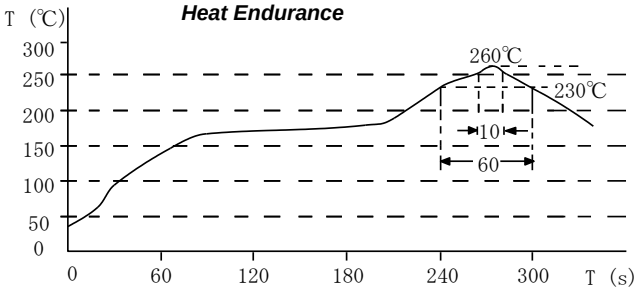
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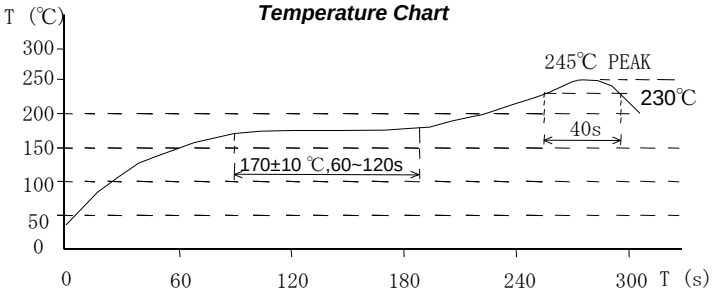
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Solder Reflow Condition

Heat Endurance



Temperature Chart



For sales office information, please click here to visit our website.

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