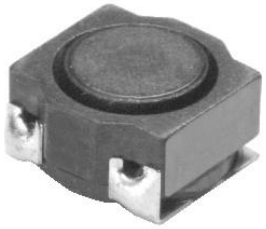
SMD Power Inductor

CDRH50D28R

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.3 × 5.3 × 3.0mm Max.
- Product weight: 0.3g (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.

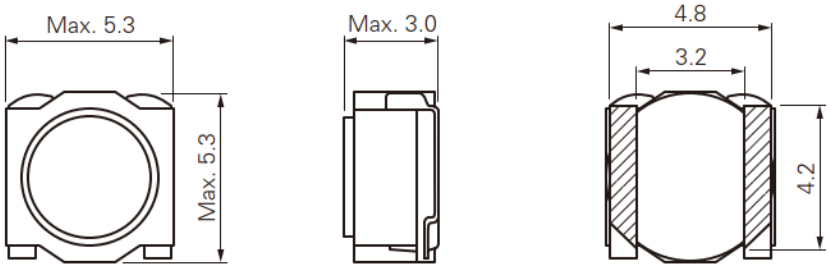
Packaging

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

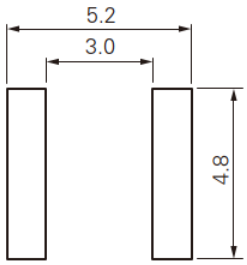
Applications

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

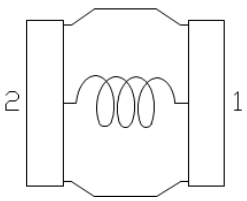
Dimension - [mm]



Land patterns - [mm]



Schematics



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

CDRH50D28R

Electrical Characteristics

Part No.	Inductance (μH) ※1	D.C.R. (mΩ) Max. (Typ.) (at 20℃)	Saturation current (A) Max. (Typ.) ※2		Temperature rise current (A) ※3
			(at 20℃)	(at 105℃)	
CDRH50D28RNP-1R2NC	1.2±30%	16.3 (13.0)	4.80 (6.07)	4.10 (4.97)	(5.40)
CDRH50D28RNP-1R6NC	1.6±30%	18.8 (15.0)	4.20 (5.47)	3.60 (4.26)	(4.70)
CDRH50D28RNP-2R2NC	2.2±30%	21.3 (17.0)	3.65 (4.52)	3.05 (3.72)	(4.30)
CDRH50D28RNP-3R0MC	3.0±20%	31.3 (25.0)	3.10 (3.97)	2.55 (3.17)	(3.50)
CDRH50D28RNP-4R7MC	4.7±20%	50.0 (40.0)	2.50 (3.08)	2.15 (2.63)	(2.70)
CDRH50D28RNP-6R8MC	6.8±20%	73.6 (61,0)	2.10 (2.61)	1.75 (2.15)	(2.20)
CDRH50D28RNP-100MC	10±20%	109 (87.0)	1.70 (2.25)	1.40 (1.78)	(1.75)
CDRH50D28RNP-150MC	15±20%	168 (140)	1.40 (1.73)	1.10 (1.34)	(1.30)
CDRH50D28RNP-220MC	22±20%	210 (175)	1.15 (1.45)	0.98 (1.20)	(1.16)
CDRH50D28RNP-330MC	33±20%	298 (248)	0.94 (1.16)	0.78 (0.95)	(0.98)
CDRH50D28RNP-470MC	47±20%	444 (370)	0.78 (1.01)	0.65 (0.83)	(0.78)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 70% 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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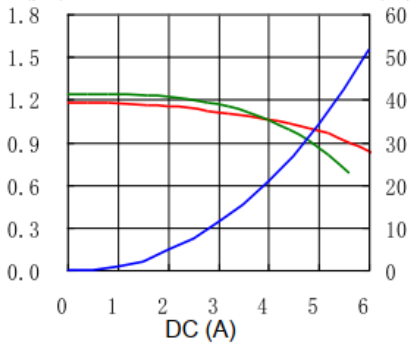
SMD Power Inductor

CDRH50D28R

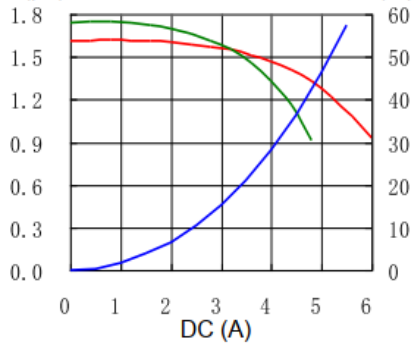
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

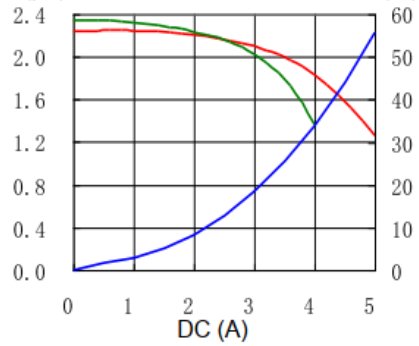
1. CDRH50D28RNP-1R2NC



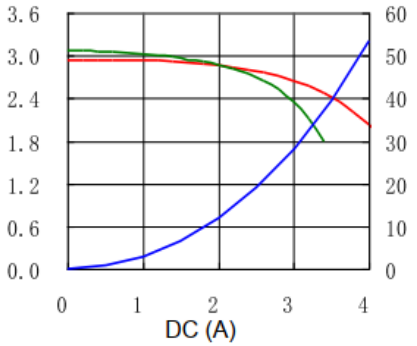
2. CDRH50D28RNP-1R6NC



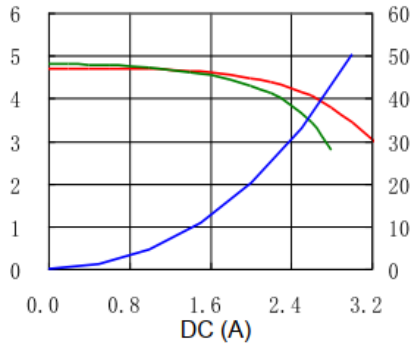
3. CDRH50D28RNP-2R2NC



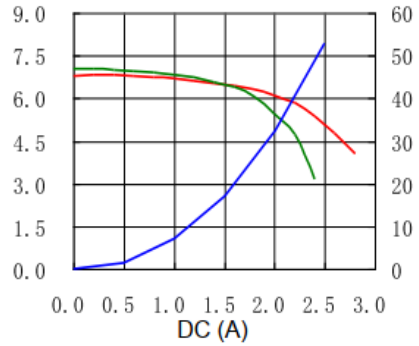
4. CDRH50D28RNP-3R0MC



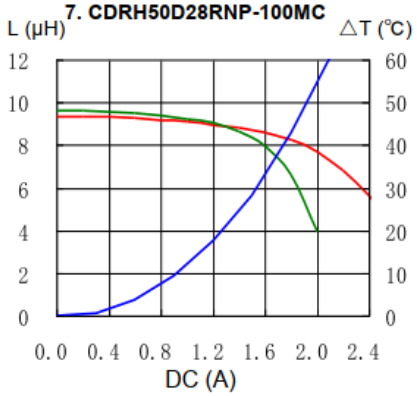
5. CDRH50D28RNP-4R7MC



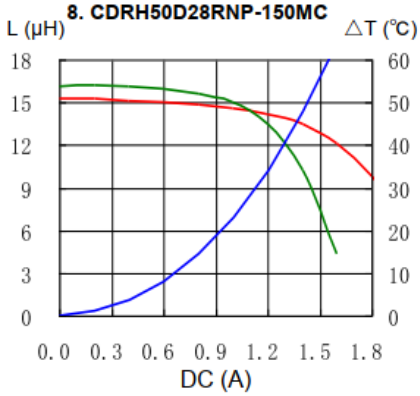
6. CDRH50D28RNP-6R8MC



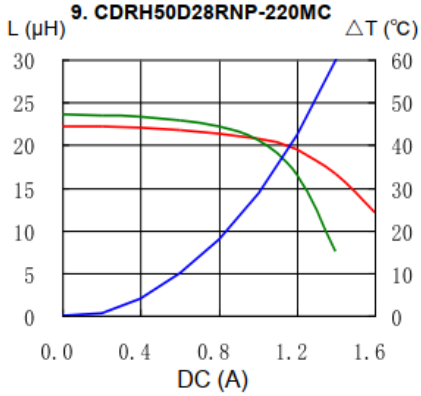
7. CDRH50D28RNP-100MC



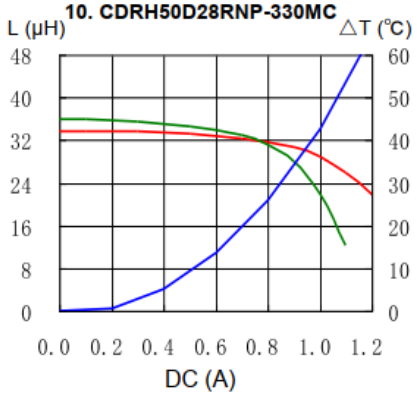
8. CDRH50D28RNP-150MC



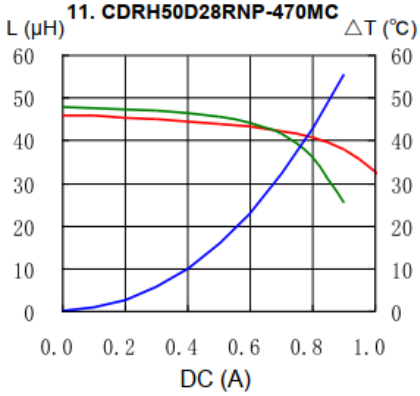
9. CDRH50D28RNP-220MC



10. CDRH50D28RNP-330MC



11. CDRH50D28RNP-470MC



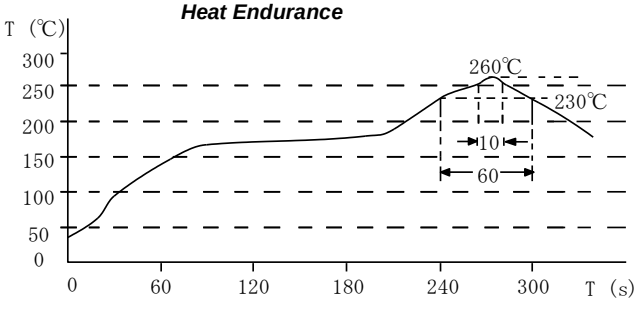
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SMD Power Inductor

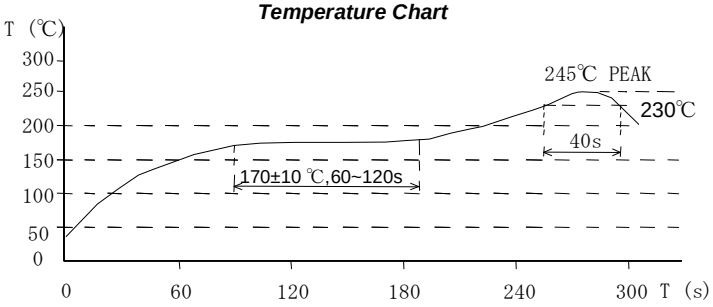
CDRH50D28R

Solder Reflow Condition

Heat Endurance



Temperature Chart



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

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