SMD Power Inductor
CDMC8D28

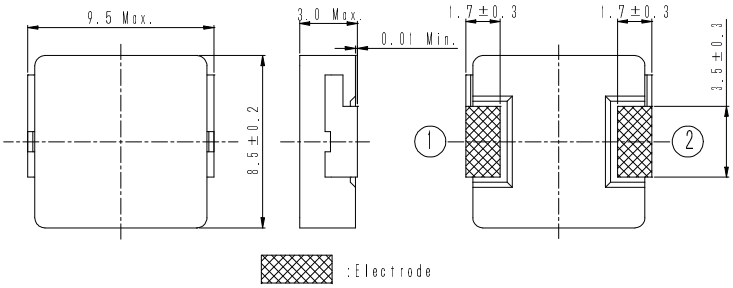
RoHS

Halogen Free



Description
- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 9.5 × 8.7 × 3.0 mm Max.
- Product weight:1.2 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

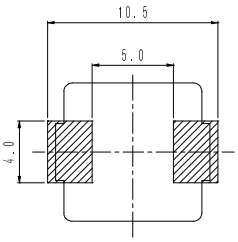
Dimension - [mm]

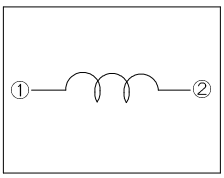


Environmental Data
- Operating temperature range: -40℃~+125℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+85℃
- Solder reflow temperature: 260 ℃ peak.

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

Land pattern and Schematics - [mm]





Applications
- Ideally used in low voltage-high current laptop PC & sever power supply.

Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20℃)	Saturation current (A) (at 20℃) ※2	Temperature rise current (A) ※3
CDMC8D28NP-R18MC	R18	0.18±20%	1.6(1.33)	28.7(35.9)	25.8
CDMC8D28NP-R39MC	R39	0.39±20%	2.8(2.32)	19.8(24.7)	19.9
CDMC8D28NP-R68MC	R68	0.68±20%	4.6(3.84)	16.0(20.0)	15.4
CDMC8D28NP-1R2MC	1R2	1.2±20%	7.0(5.80)	12.2(15.3)	12.9
CDMC8D28NP-1R8MC	1R8	1.8±20%	12.6(10.5)	9.4(11.8)	9.3
CDMC8D28NP-2R2MC	2R2	2.2±20%	16.1(13.4)	8.8(11.0)	8.1
CDMC8D28NP-3R3MC	3R3	3.3±20%	22.2(18.5)	7.0(8.8)	7.3
CDMC8D28NP-3R9MC	3R9	3.9±20%	24.1(20.1)	6.4(8.0)	7.1

※1. Measuring condition: at 1MHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

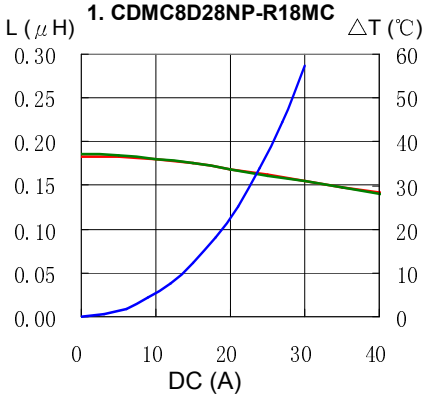
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

Revised: 25-Jul-11

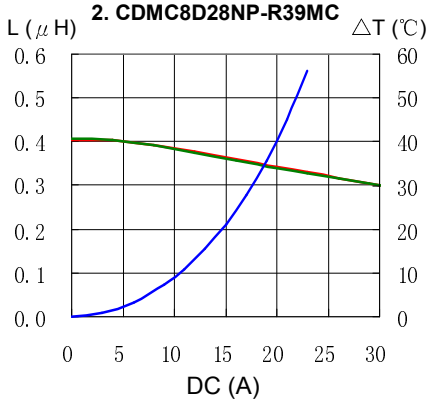
Saturation Current & Temperature Rise Graph

L (20℃) L (125℃) △T

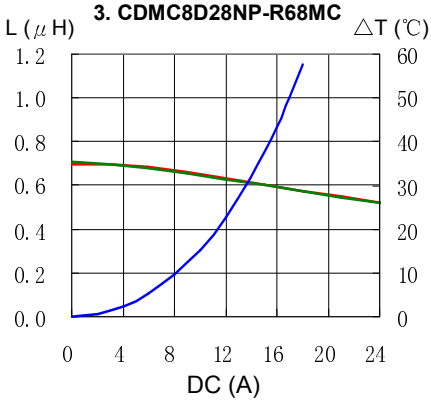
1. CDMC8D28NP-R18MC



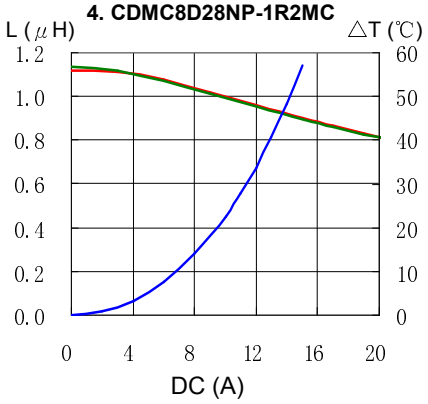
2. CDMC8D28NP-R39MC



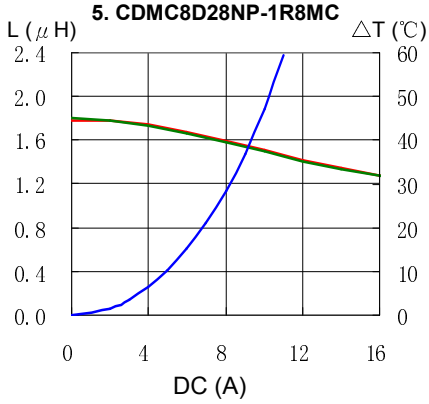
3. CDMC8D28NP-R68MC



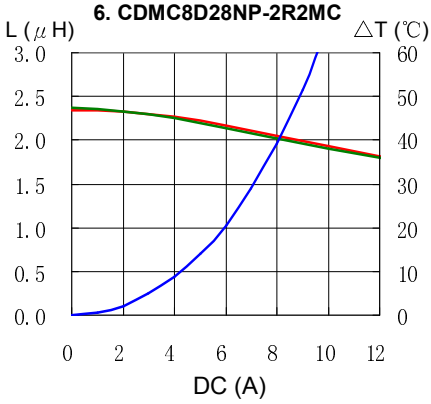
4. CDMC8D28NP-1R2MC



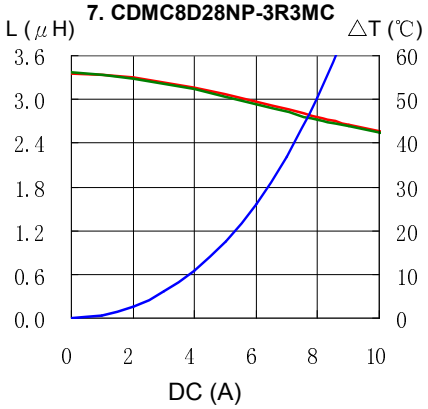
5. CDMC8D28NP-1R8MC



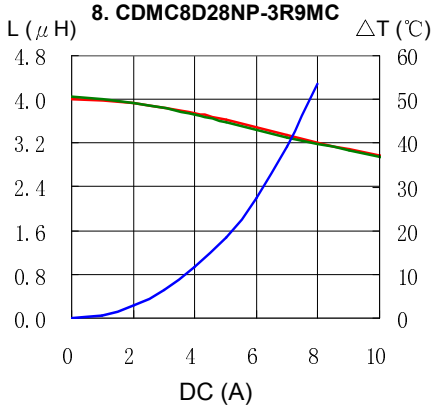
6. CDMC8D28NP-2R2MC



7. CDMC8D28NP-3R3MC



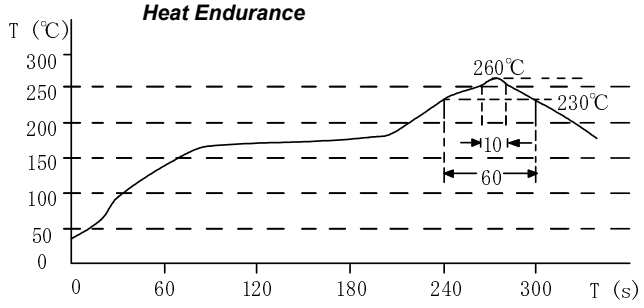
8. CDMC8D28NP-3R9MC



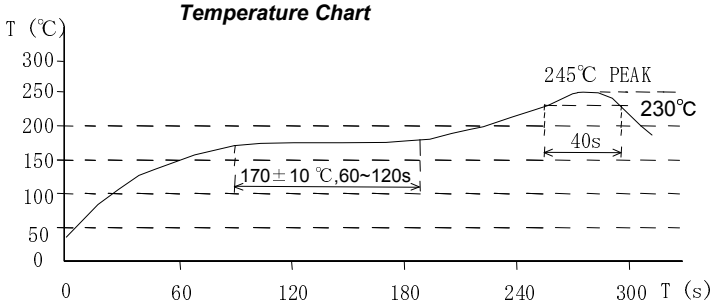
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Solder Reflow Condition

Heat Endurance



Temperature Chart



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