

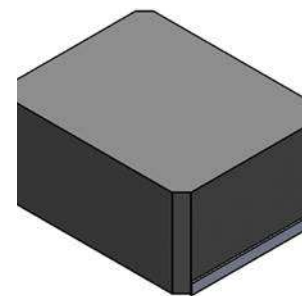
SMD Power Inductor

201610CDMCD/DS



Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current.
- LxWxH:2.2x1.8x1.0mm Max.
- Product weight: 0.2mg (Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating temperature range: -55°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -55°C~+125°C

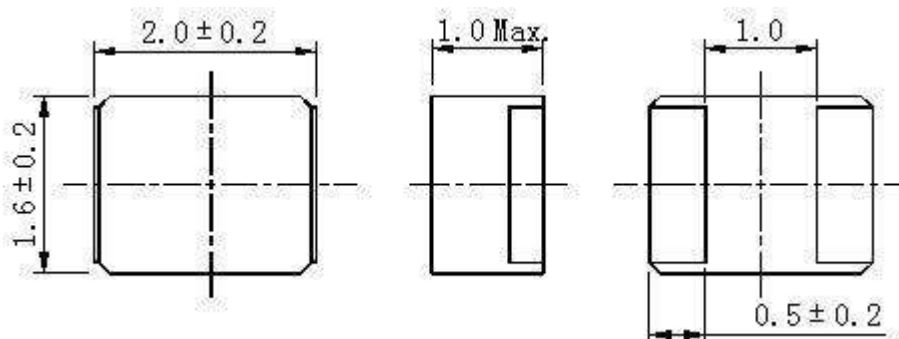
Packaging

- Carrier tape and reel packaging.
- 3000Pcs per reel

Applications

- DC/DC converter for CPU in Notebook PC. Smartphones, LCD displays, HDDs, DVDs, DVCs, DSCs, PDAs ect..
- Thin type on-board power supply module for exchanger VRM for server.
- Low profile, high current power supplies.
- Battery powered devices.

Dimension - [mm]

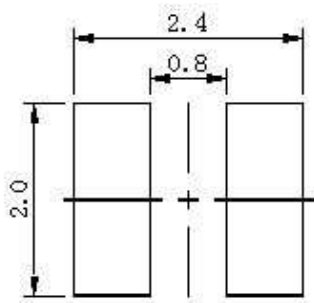


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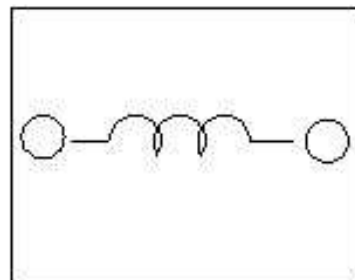
201610CDMCD/DS



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

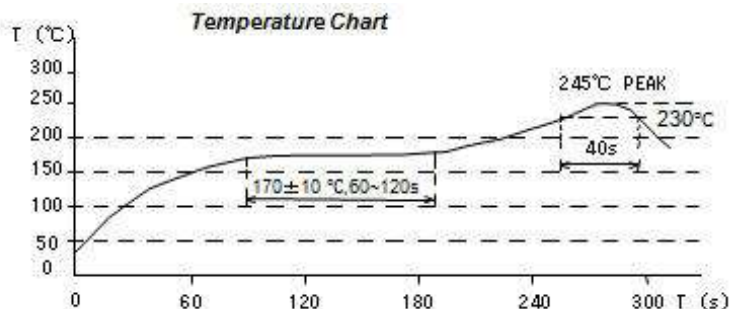
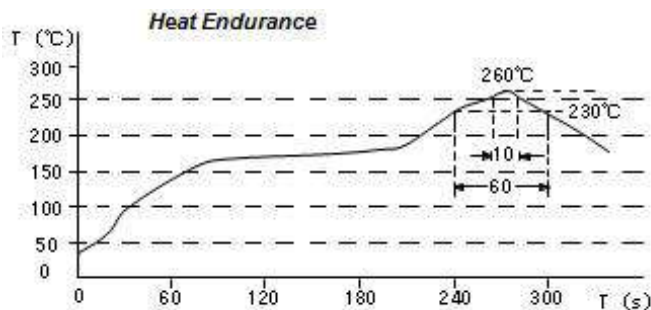
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C max(typ) (m Ω)	Saturation Current at 20°C(A) ※2	Temperature Rise Current (A) ※3
201610CDMCDDS-R24MC	0.24 \pm 20%	20.00 (16.00)	7.20	6.30
201610CDMCDDS-R47MC	0.47 \pm 20%	32.00 (26.00)	5.30	4.60
201610CDMCDDS-R68MC	0.68 \pm 20%	43.00 (36.00)	4.20	4.20
201610CDMCDDS-1R0MC	1.00 \pm 20%	57.00 (48.00)	3.50	3.30
201610CDMCDDS-2R2MC	2.20 \pm 20%	138 (115)	2.30	2.10

※1 Measuring frequency Inductance at 1MHz,0.1V

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 30% lower than its initial value.

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$). (Test board condition: FR4, Copper=70 μ m, four-layer PWB t=1.6mm)

Solder Reflow Condition



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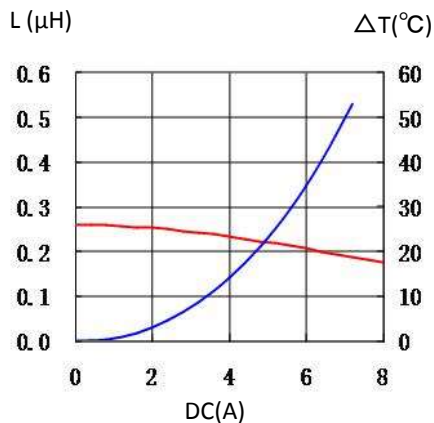
201610CDMCD/DS



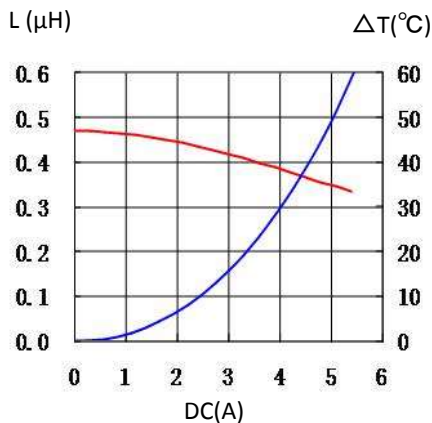
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

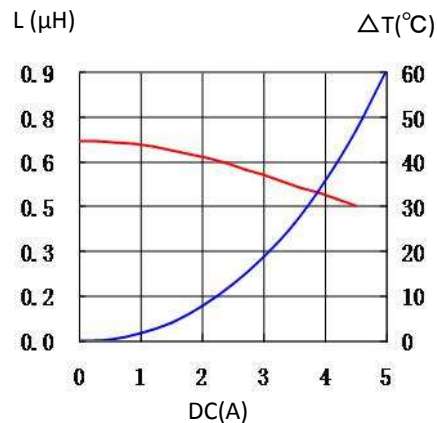
1. 201610CDMCDDS-R24MC



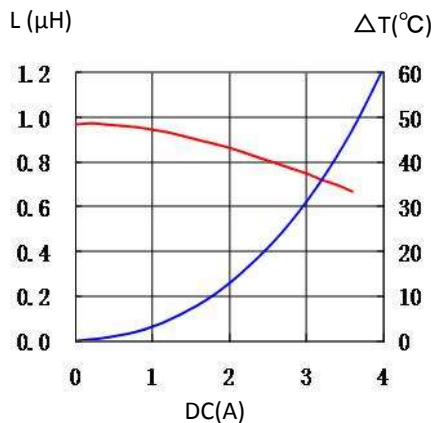
2. 201610CDMCDDS-R47MC



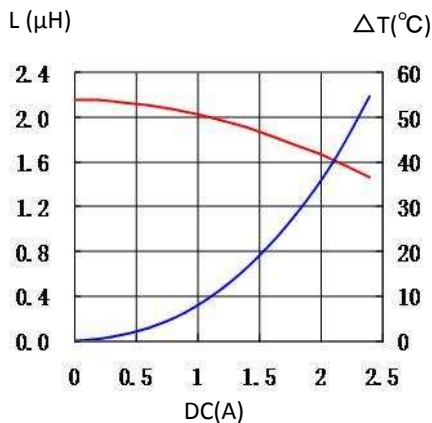
3. 201610CDMCDDS-R68MC



4. 201610CDMCDDS-1R0MC



5. 201610CDMCDDS-2R2MC



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