

SMD Power Inductor

201610CDMCC/DS



Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current
- L×W×H: 2.2×1.8×1.0mm Max.
- Product weight: 0.25mg (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

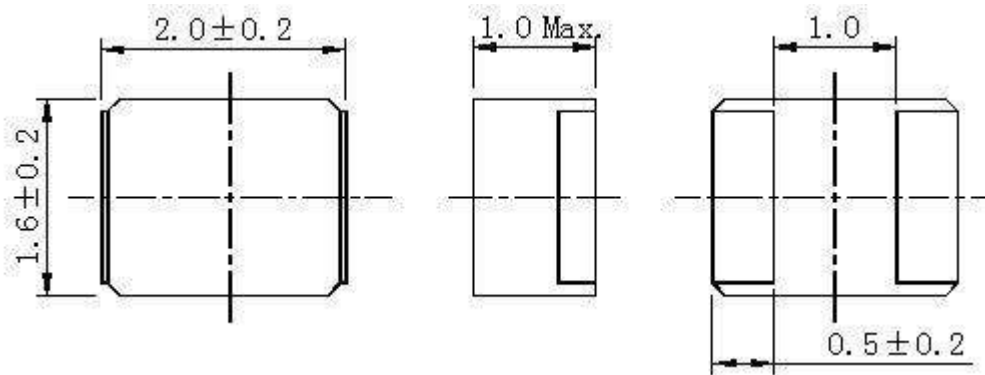
Packaging

- Carrier tape and reel packaging. 3,000pcs per reel.

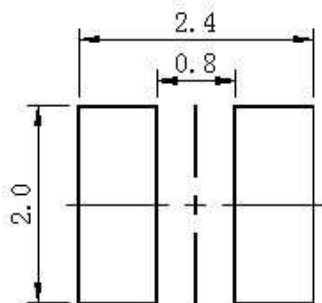
Applications

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

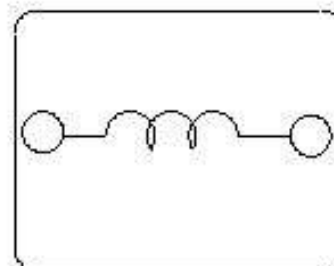
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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



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
201610CDMCCDS-R24MC	0.24 $\pm$ 20%	23.00 (19.00)	6.50	5.20
201610CDMCCDS-R47MC	0.47 $\pm$ 20%	41.00 (34.00)	4.20	3.80

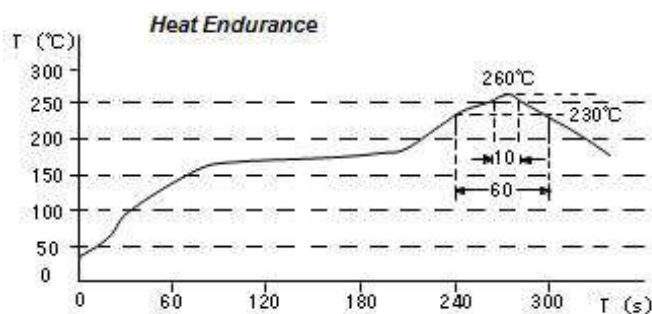
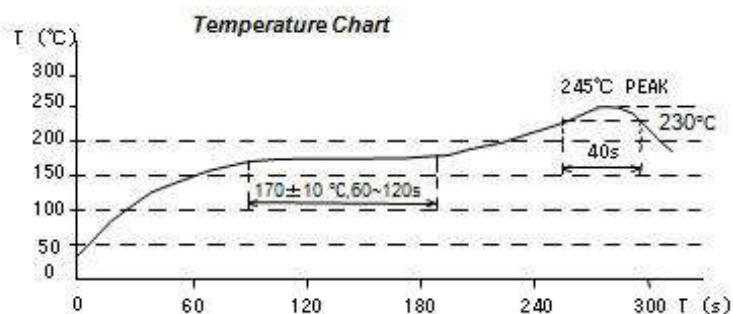
※ 1. Measuring frequency Inductance at 1MHz, 0. 1V.

※ 2. Saturation current: The actual value of D.C current when the inductance decreases to 70% of it's initial value.

※ 3. Temperature rise current: The actual value of DC current when the coil temperature rise is $\Delta T=40^{\circ}\text{C}$

(Ta=25°C) Board conditions: FR4, Copper=70 μ m, four-layer PWB, t=1.6mm.

Solder Reflow Condition



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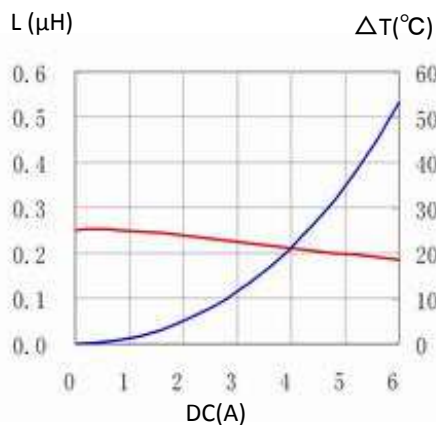
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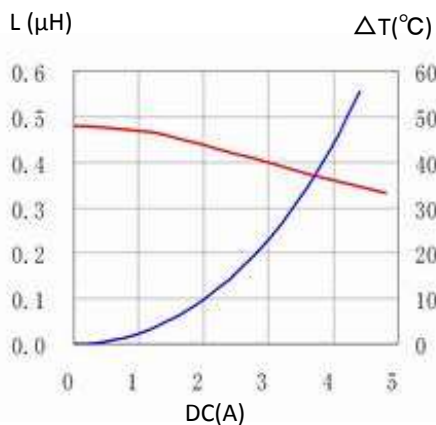
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

1. 201610CDMCCDS-R24MC



2. 201610CDMCCDS-R47MC



For sales office information, please [click here](#) to visit our website.