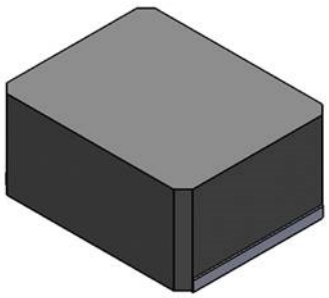
THE DATASHEET OF

252012CDMCCDS-4R7MC

SMD Power Inductor

252012CDMCD/DS



Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current.
- L×W×H:2.7×2.2×1.2mm Max.
- Product weight: 36mg (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

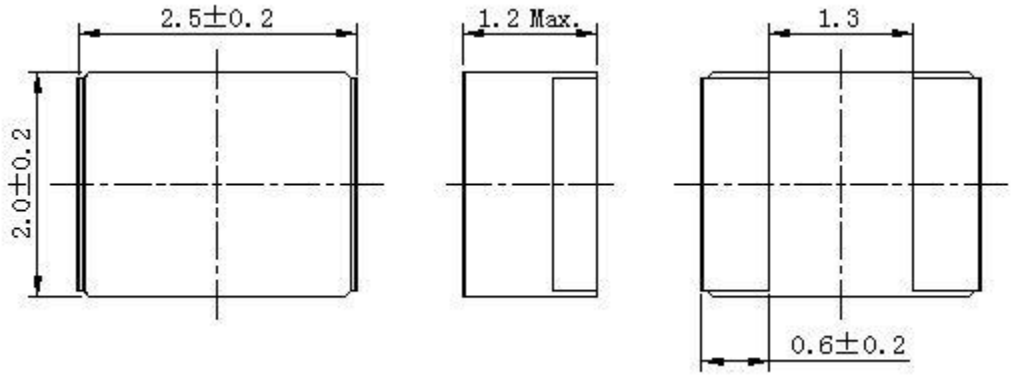
Packaging

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

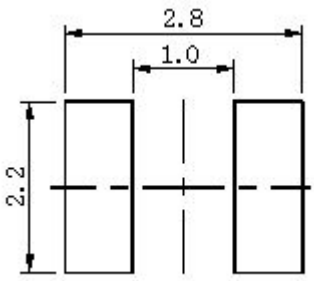
Applications

- 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

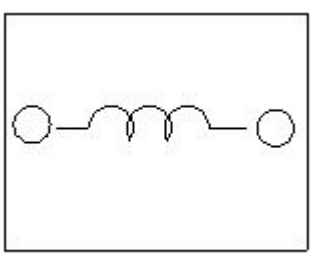
Dimension - [mm]



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.

SMD Power Inductor

252012CDMCD/DS

Electrical Characteristics

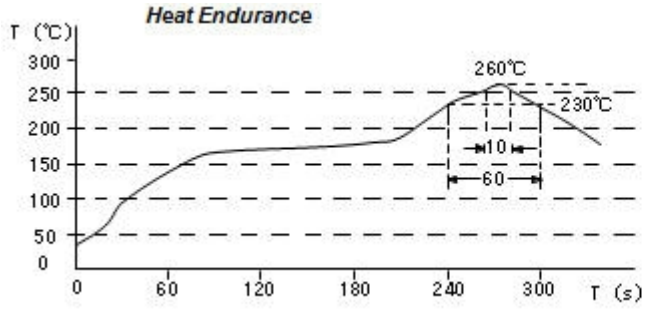
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max.(Typ.) (mΩ)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
252012CDMCDDS-R47MC	0.47 ± 20%	21.00 (17.00)	6.20 (7.30)	(6.10)
252012CDMCDDS-R68MC	0.68 ± 20%	30.00 (25.00)	5.40 (6.30)	(5.50)
252012CDMCDDS-1R0MC	1.00 ± 20%	42.00 (35.00)	4.60 (5.40)	(4.20)
252012CDMCDDS-1R5MC	1.50 ± 20%	61.00 (53.00)	3.10 (3.60)	(3.60)
252012CDMCDDS-2R2MC	2.20 ± 20%	82.00 (68.00)	2.80 (3.30)	(3.00)

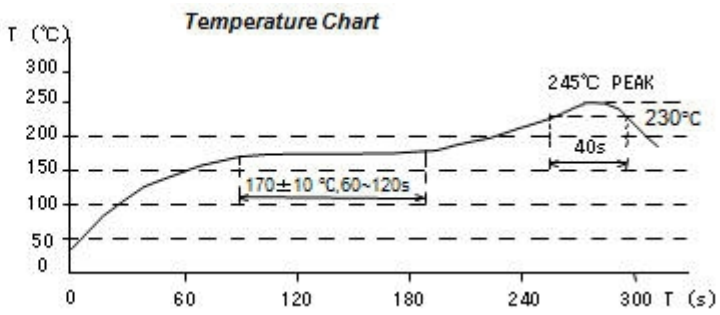
※1 Measuring frequency Inductance at 1MHz,0.1V

※2 Saturation current: This indicates the 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 △T=40℃ (Ta＝25℃).(Test board condition: FR4, Copper=70μm, four-layer PWB t=1.6mm)

Solder Reflow Condition





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

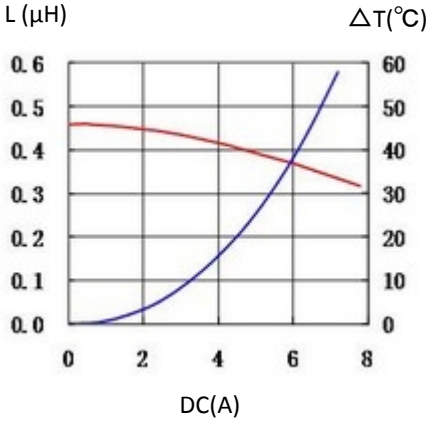
SMD Power Inductor

252012CDMCD/DS

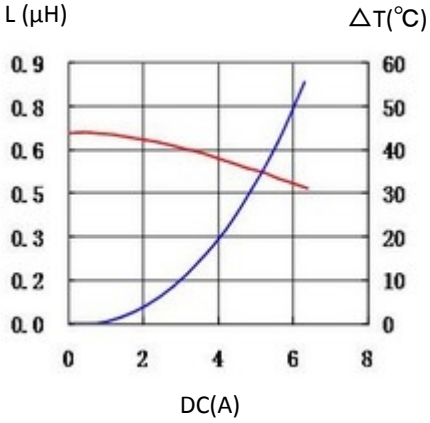
Saturation Current & Temperature Rise Graph

L (20℃) △T

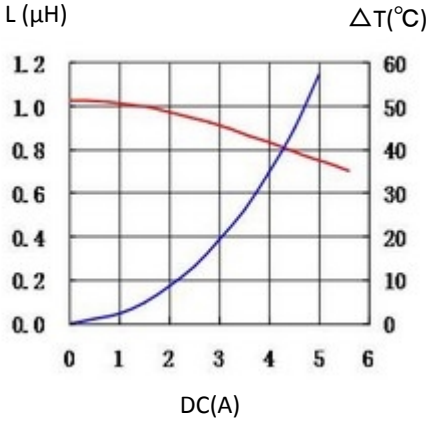
1. 252012CDMCDDS-R47MC



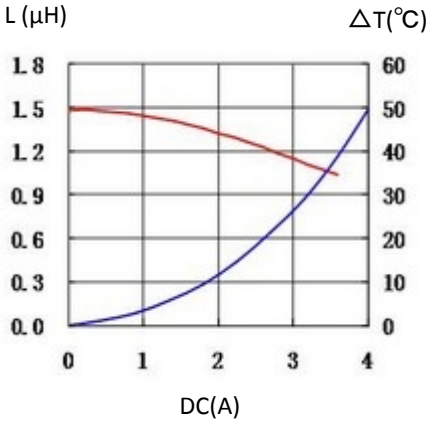
2. 252012CDMCDDS-R68MC



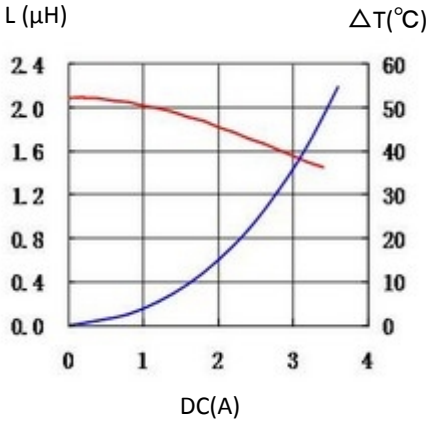
3. 252012CDMCDDS-1R0MC



4. 252012CDMCDDS-1R5MC



5. 252012CDMCDDS-2R2MC



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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View 252012CDMCCDS-4R7MC on WIN SOURCE
- Sumida America Components Inc. Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management