

SMD Power Inductor

0415CDMCQ/DS



Halogen
Free

Description

- Magnetically shielded.
- L × W × H: 4.75 × 4.35 × 1.5 mm Max.
- Product weight: 0.15g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

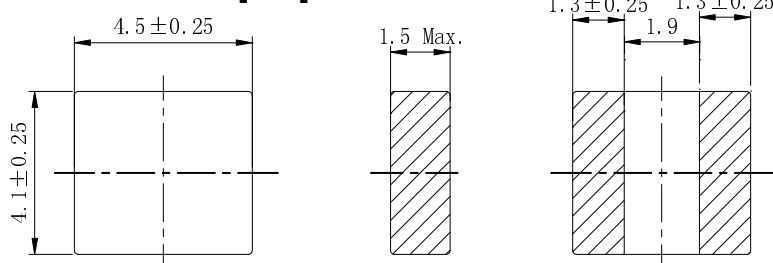
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 4500pcs per reel

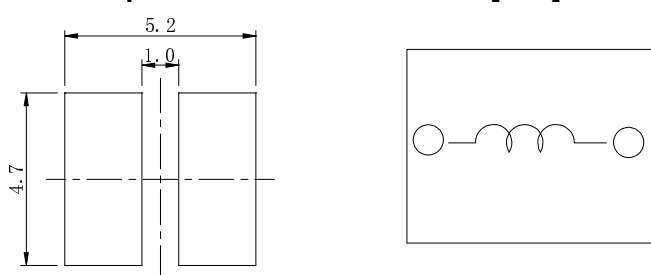
Applications

- Ideally used in notebook, ultrabook, tablet PC, LCD display, SSD and other low profile high current application.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance [Within] (μ H) ※1	D.C.R [Within] (m Ω) at 25°C	Saturation Current (Typ.) (at 25°C) (A)※2	Temperature rise current (Typ.) Thermocouple Method (A)※3
0415CDMCQDS-R47MC	R47H	0.47 ± 20%	10 ± 20%	10.8	6.8
0415CDMCQDS-1R0MC	1R0H	1.0 ± 20%	23 ± 20%	6.3	4.2
0415CDMCQDS-2R2MC	2R2H	2.2 ± 20%	40 ± 20%	5.9	3.3

※1. Inductance measuring condition: at 1MHz.

※2. Saturation current: The value of DC current when the inductance is over 70% of the initial value. (at 25°C)

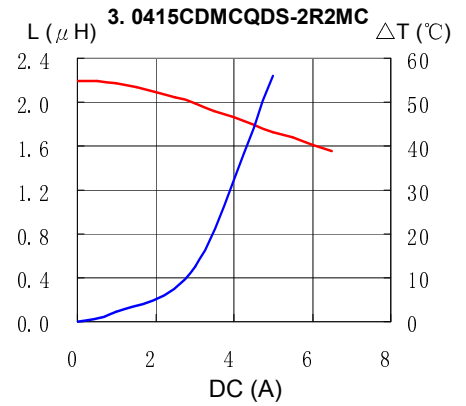
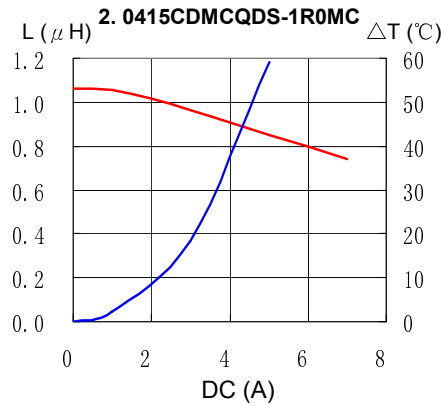
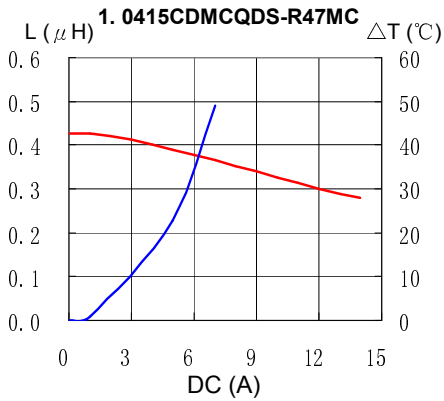
※3. Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

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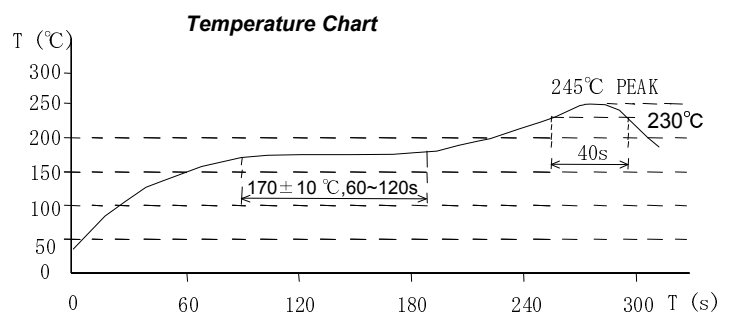
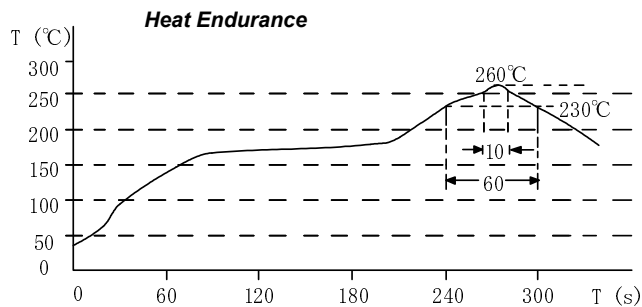


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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