

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Sumida Corporation](#)  
[0415CDMCDS-1R0MC](#)

For any questions, you can email us directly:

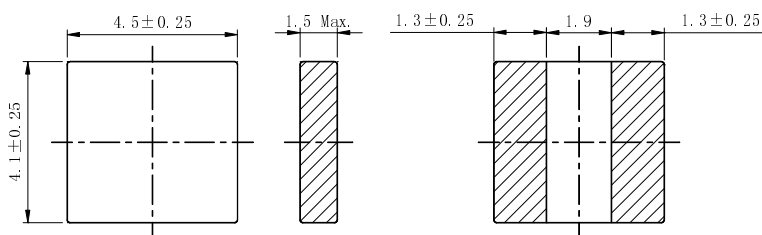
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# SMD Power Inductor 0415CDMC/DS

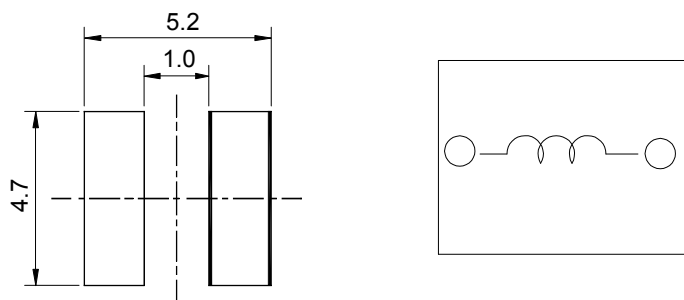


Halogen Free

### Dimension - [mm]



### Land pattern and Schematics - [mm]



### 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.

### Electrical Characteristics

Part Number	Stamp	Inductance (μH) [within] ※1	D.C.R (mΩ) [ within ] (at 25°C)	Saturation Current [Typ.] (A) ※2	Temperature rise Current [Typ.] (A) ※3
0415CDMCD S-1R0MC	1R0	1.0 ± 20%	30 ± 20%	8.0	4.5

※1. Inductance measuring condition: at 100kHz.

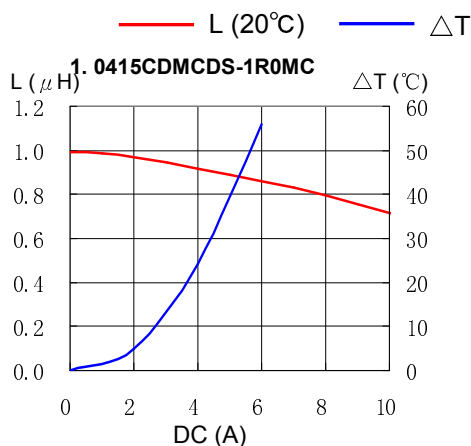
※2. Saturation current: The value of DC current when the inductance is over 80% of the initial value. (at 25°C )

※3 .Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is ΔT= 40°C(Ta=25°C).

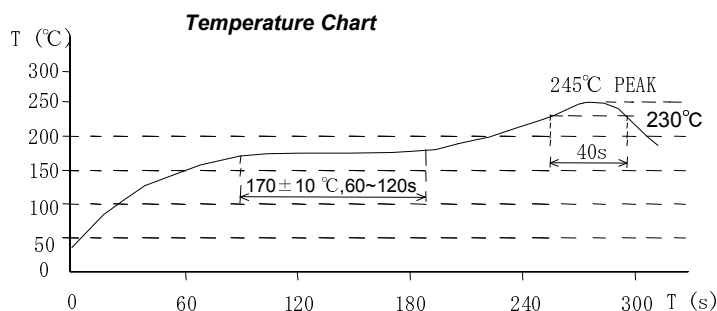
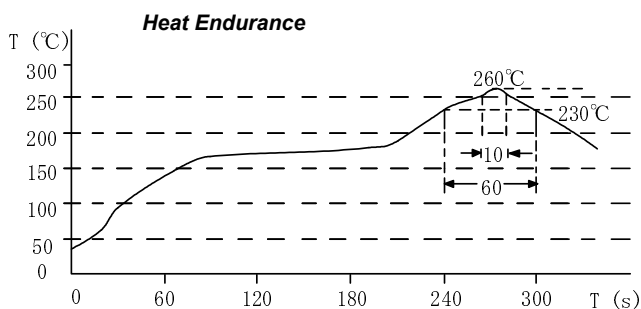
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## Saturation Current & Temperature Rise Graph



## Solder Reflow Condition



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