

# SMD Power Inductor 0415CDMC/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.

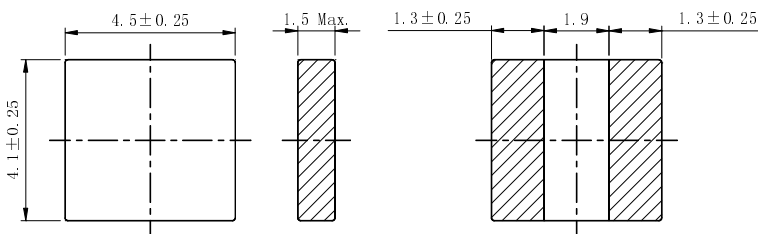
## Packaging

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

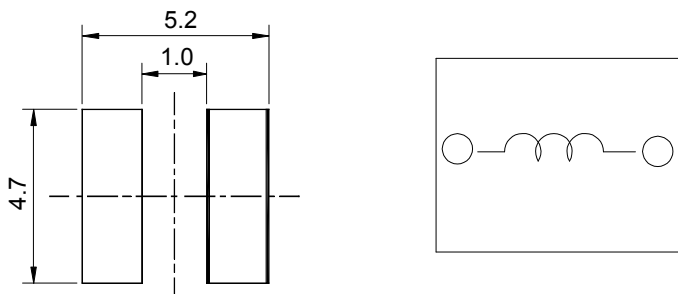
## Applications

- 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 Number	Stamp	Inductance ( $\mu$ H) [within] ※1	D.C.R (m $\Omega$ ) [ within ] (at 25°C)	Saturation Current [Typ.] (A) ※2	Temperature rise Current [Typ.] (A) ※3
0415CDMCDS-1R0MC	1R0	1.0±20%	30±20%	7.8	4.5

※1. Inductance measuring condition: at 100kHz.

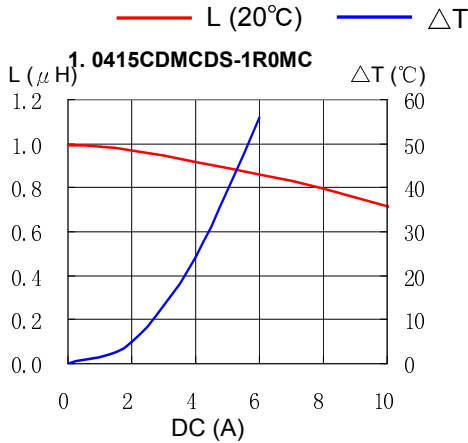
※2. Saturation current: The value of DC current when the inductance is over 80% of the initial value. (at 25°C )

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

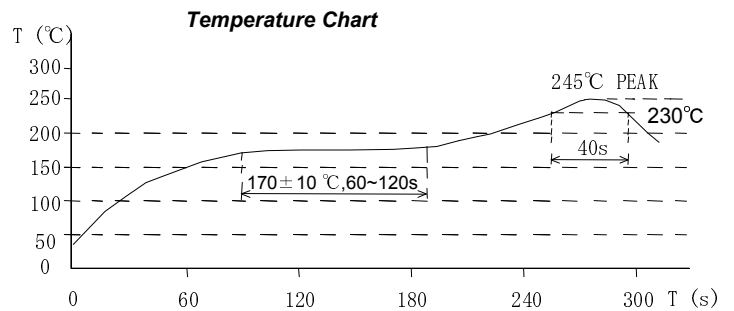
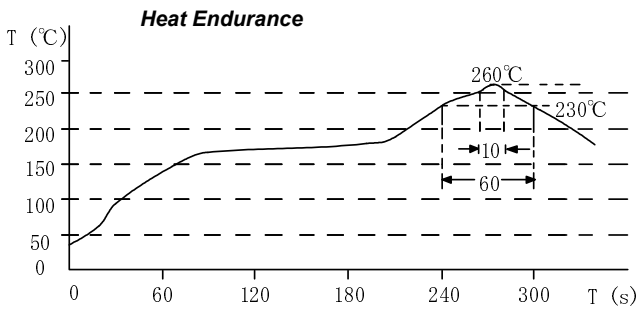
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## Saturation Current & Temperature Rise Graph



## Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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