

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.

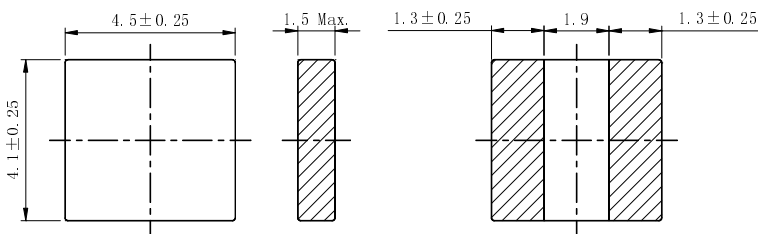
Packaging

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

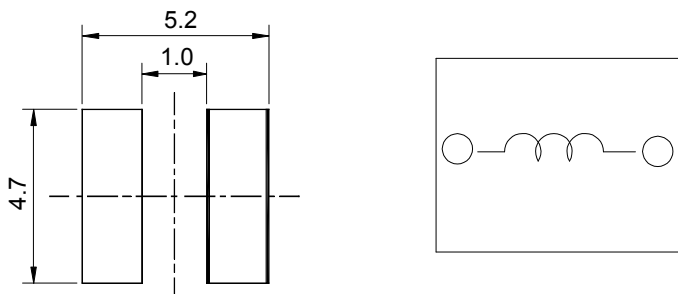
Applications

- 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 (μ H) [within] ※1 | D.C.R (m Ω) [within] (at 25°C) | Saturation Current [Typ.] (A) ※2 | Temperature rise Current [Typ.] (A) ※3 |
|------------------|-------|---|--|--|--|
| 0415CDMCDS-1R0MC | 1R0 | 1.0 \pm 20% | 30 \pm 20% | 7.8 | 4.5 |

※1. Inductance measuring condition: at 100kHz.

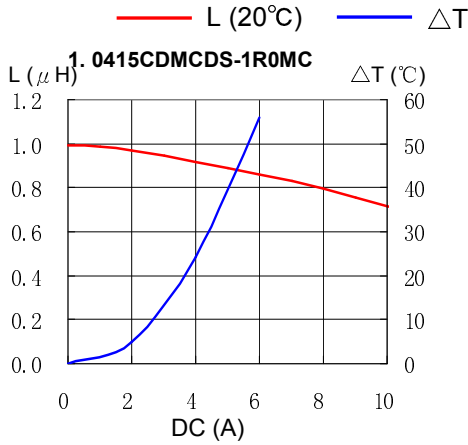
※2. Saturation current: The value of DC current when the inductance is over 80% of the initial value. (at 25°C)

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

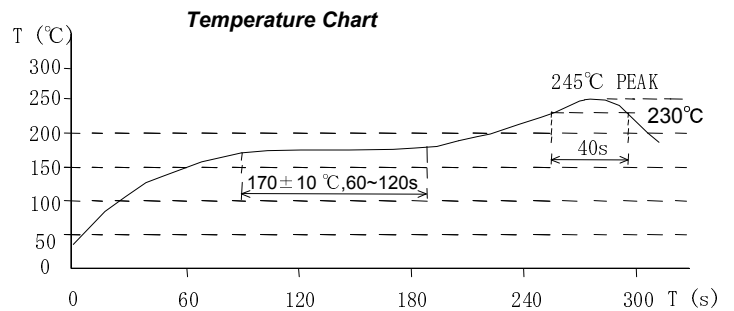
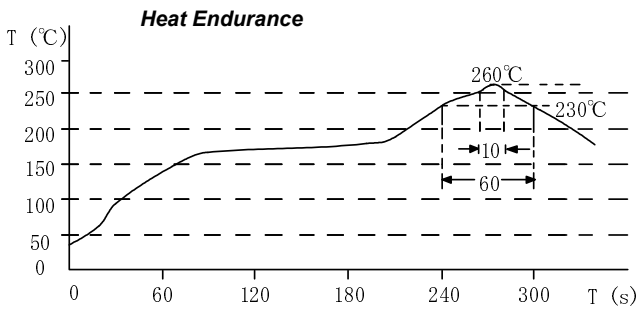
SMD Power Inductor 0415CDMC/DS



Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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

Hong Kong

Tel. +852-2880-6688
FAX. +852-2565-9600
sales@hk.sumida.com

Tokyo

Tel. +81-3-5202-7112
FAX. +81-3-5202-7105
sales@jp.sumida.com

Chicago

Tel. +1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel. +86-021-5836-3299
FAX. +86-021-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel. +82-2-6237-0777
FAX. +82-2-6237-0778
sales@kr.sumida.com

Oberzell

Tel. +49-8591-937-0
FAX. +49-8591-937-103
contact@sumida-eu.com

Shenzhen

Tel. +86-755-8291-0228
FAX. +86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel. +65-6296-3388
FAX. +65-6296-3390
sales@sg.sumida.com

Neumarkt

Tel. +49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel. +886-2-8751-2737
FAX. +886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel. +1-408-321-9660
FAX. +1-408-321-9308
sales@us.sumida.com