

# SMD Power Inductor CDBM7D28



## Description

- Ferrite core construction
- Magnetically shielded
- L × W × H: 8.0 × 5.0 × 3.0 mm Max.
- Product weight: 0.5g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

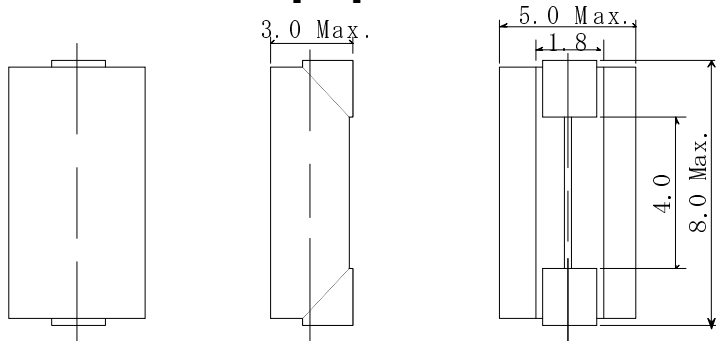
## Packaging

- Carrier tape and reel packaging
- 11.8 "diameter reel
- 2000pcs per reel

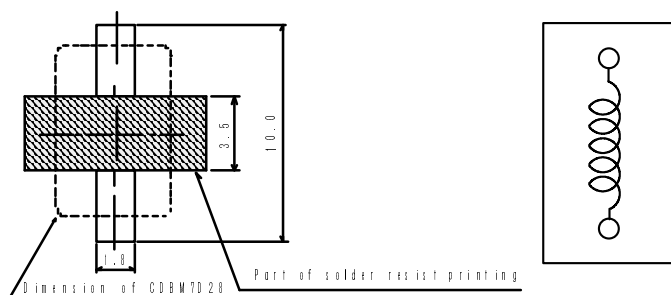
## Applications

- Ideally used in the multiple chopper type DC/DC converters for servers and various decentralized power supplies.

## Dimension - inch [mm]



## Land pattern and Schematics - inch [mm]



## Electrical Characteristics

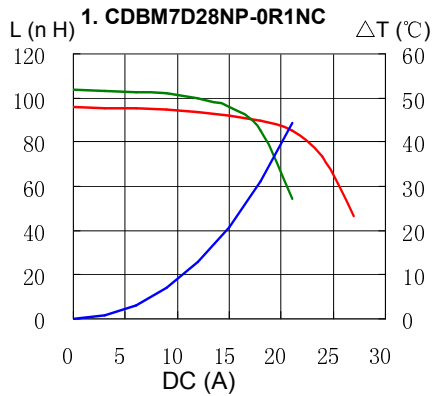
| Parameter               | Idc   | Measuring condition | Typ. | Min. | Max. | Unit |
|-------------------------|-------|---------------------|------|------|------|------|
| 1. Inductance (at 20°C) | 0A    | 1MHz                | 100  | 80   | 120  | nH   |
|                         | 0~15A | 1MHz                | —    | 80   | —    | nH   |
| 2. D.C.R. (at 20°C)     | —     |                     | 1.4  | —    | 1.7  | mΩ   |
| 3. Rating current       | —     |                     |      |      | 15.0 | A    |

# SMD Power Inductor CDBM7D28

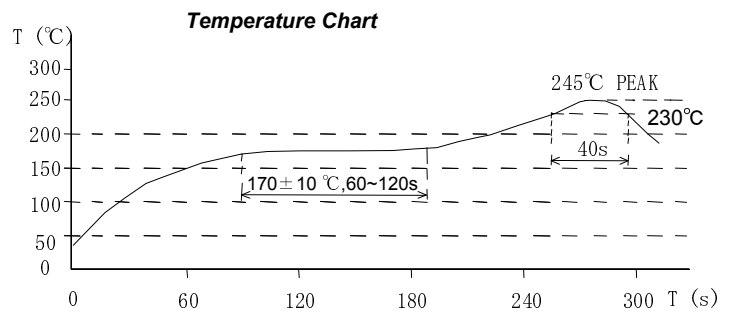
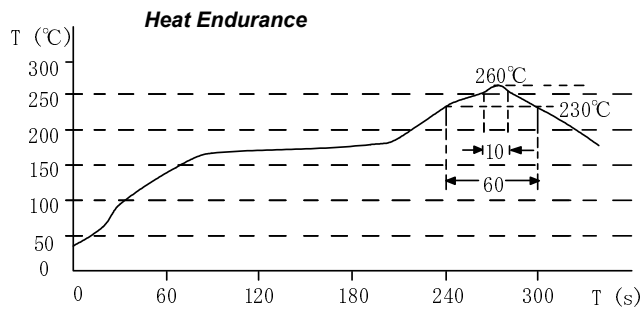


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



## 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](mailto:sales@hk.sumida.com)

### Tokyo

Tel. +81-3-5202-7112  
FAX. +81-3-5202-7105  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

### Chicago

Tel. +1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

### Shanghai

Tel. +86-021-5836-3299  
FAX. +86-021-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

### Seoul

Tel. +82-2-6237-0777  
FAX. +82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

### Obernzell

Tel. +49-8591-937-0  
FAX. +49-8591-937-103  
[contact@sumida-eu.com](mailto:contact@sumida-eu.com)

### Shenzhen

Tel. +86-755-8291-0228  
FAX. +86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

### Singapore

Tel. +65-6296-3388  
FAX. +65-6296-3390  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

### Neumarkt

Tel. +49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

### Taipei

Tel. +886-2-8751-2737  
FAX. +886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

### San Jose

Tel. +1-408-321-9660  
FAX. +1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)