

SMD Power Inductor CDEIR10D47ME



Description

- Metal alloy core construction.
- Magnetically shielded.
- L × W × H: 11.5 × 10.7 × 5.0mm Max.
- Product weight :2.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C
- Solder reflow temperature: 260 °C peak.

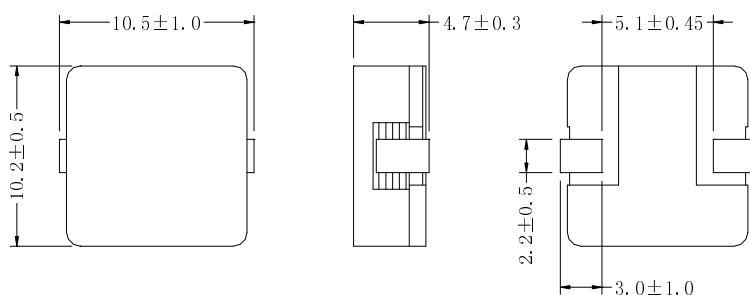
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 500pcs per reel

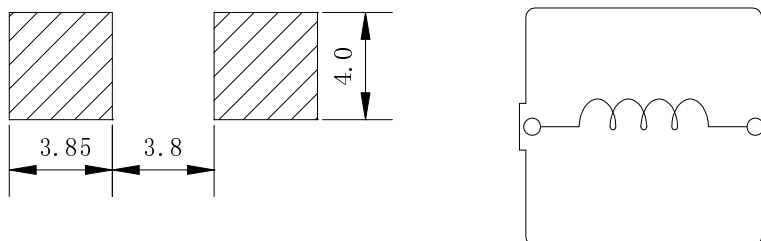
Applications

- Ideally used in Notebook, PDA and other high current application .

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [Within] ※1	D. C. R. (m Ω) [Within]	Saturation Current (at 20°C) [typ.] (A) ※2	Temperature Rise Current [typ.] (A) ※3
CDEIR10D47MENP-1R2MC	1R2	1.2 ± 20%	1.8 ± 10%	25	19.7

※1 Measuring condition at 100kHz

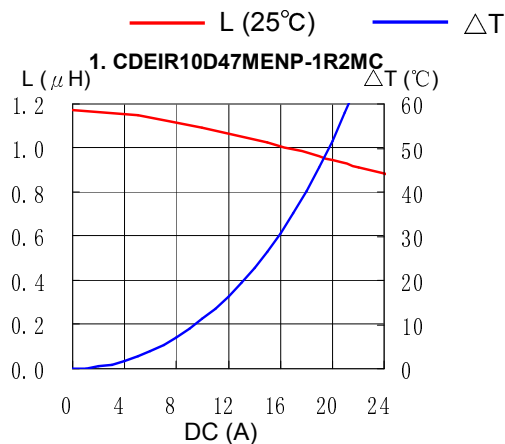
※2 The saturation current: the typical value of DC current when the inductance decreases to 70% of its nominal value.

※3 The temperature rise current: This indicates the typical value of DC current when the temperature rise is $\Delta T=50^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

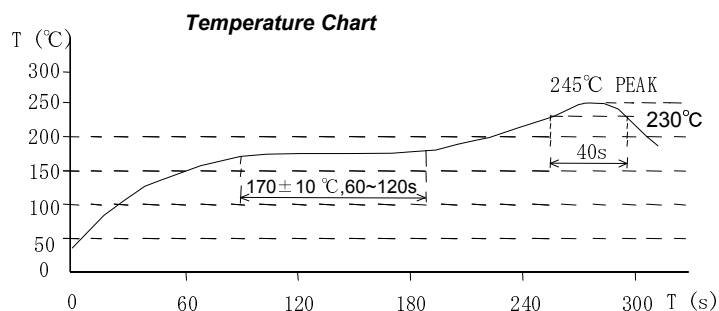
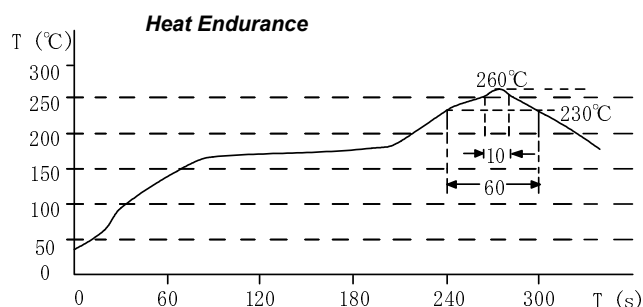
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Saturation Current & Temperature Rise Graph



Solder Reflow Condition



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

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