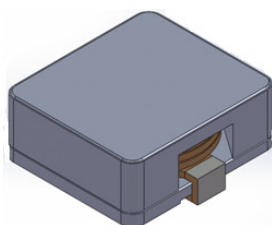


SMD Power Inductor CDEIR12D50ME



Description

- Metal alloy core construction.
- Magnetically shielded.
- L × W × H: 13.1 × 13.0 × 5.5mm Max.
- Product weight : 3.8 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C~+150°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C
- Solder reflow temperature: 260 °C peak.

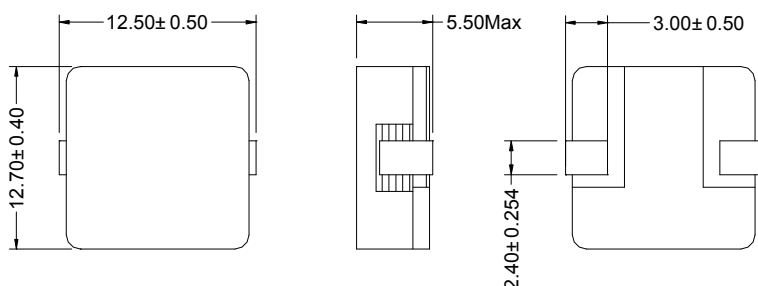
Packaging

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

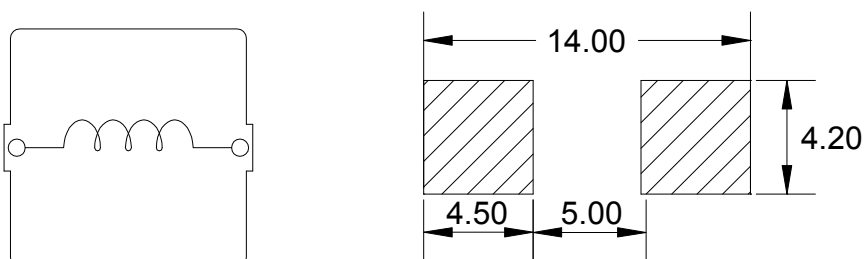
Applications

- 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. ($m\Omega$) [Max.] (at 20°C)	Saturation Current (A) Typ. (at 20°C) ※2	Temperature Rise Current (A) Typ. ※3
CDEIR12D50MENP-1R0MC	1R0	1.0±20%	1.7 (1.4)	30.0	25.0
CDEIR12D50MENP-1R5MC	1R5	1.5±20%	2.5 (2.1)	25.0	20.5
CDEIR12D50MENP-2R2MC	2R2	2.2±20%	4.1 (3.4)	20.0	16.0
CDEIR12D50MENP-3R3MC	3R3	3.3±20%	6.0 (5.0)	18.0	12.0
CDEIR12D50MENP-4R7MC	4R7	4.7±20%	8.0 (6.7)	15.0	10.5
CDEIR12D50MENP-5R6MC	5R6	5.6±20%	9.0 (7.5)	13.0	10.0

※1. Measuring condition Inductance at 100kHz

※2. The saturation current: The value of DC current when the inductance decreases to 80% of its nominal value (Ta=20°C).

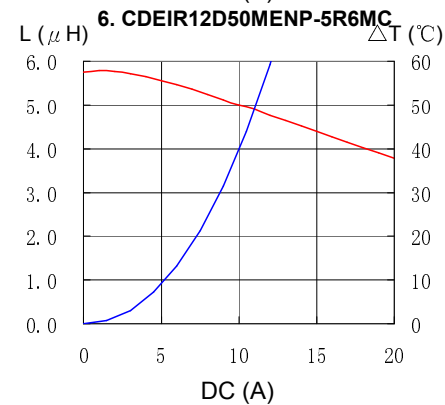
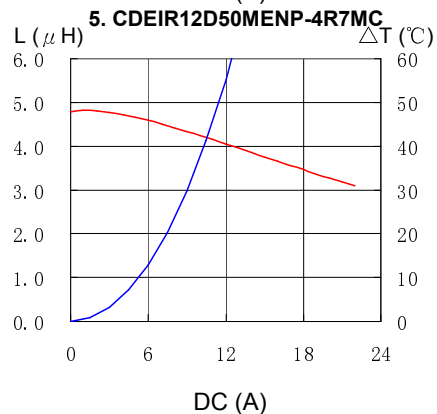
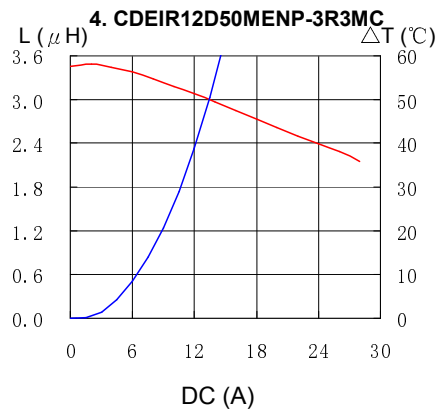
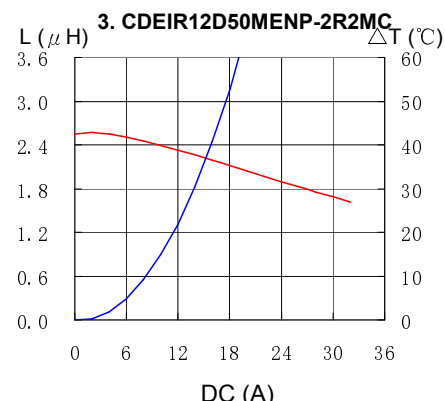
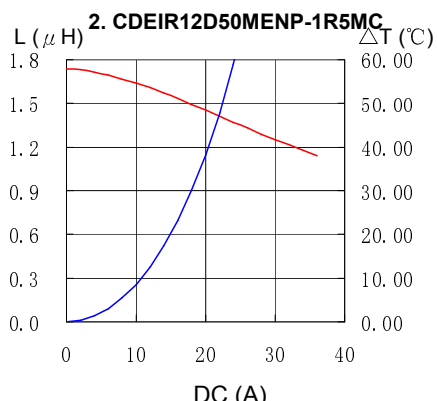
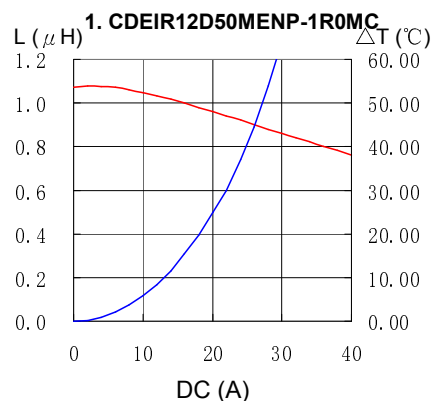
※3. The temperature rise current: The value of DC current when the temperature rise is $\Delta T=40^\circ\text{C}$ (Ta=20°C).

SMD Power Inductor CDEIR12D50ME



Saturation Current & Temperature Rise Graph

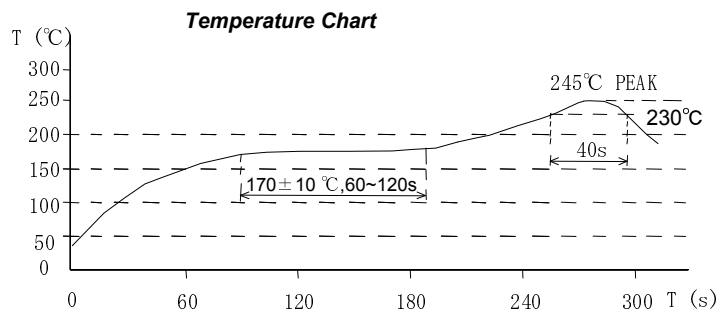
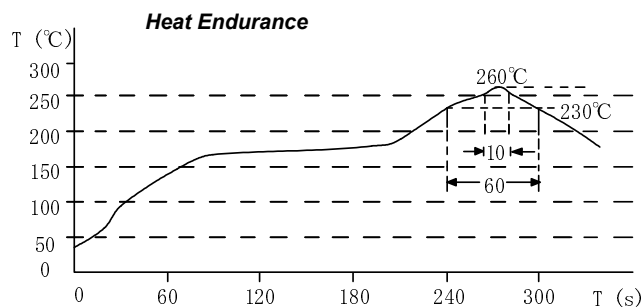
— L (25°C) — ΔT



SMD Power Inductor CDEIR12D50ME



Solder Reflow Condition



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