

SMD Power Inductor CDEP136ME



Description

- Metal alloy core construction.
- Magnetically shielded.
- L × W × H: 13.3 × 13.2 × 5.6mm Max.
- Product weight: 4.2g (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~+125°C
- Solder reflow temperature: 260 °C peak.

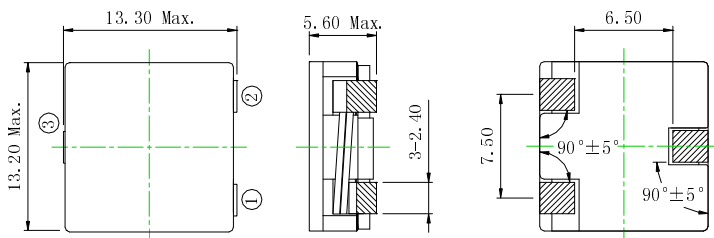
Packaging

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

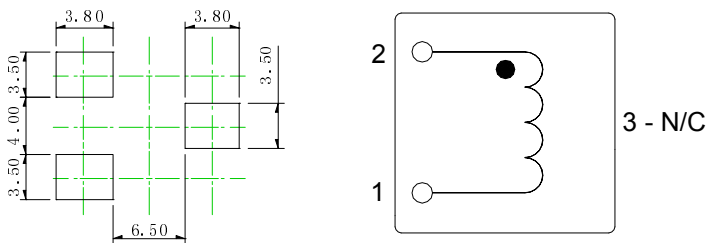
Applications

- Ideally used in POL module DC/DC converter and computer CPU power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

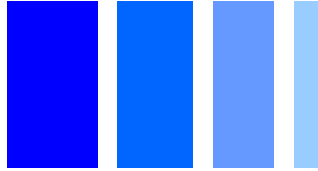
Part No.	Stamp	Inductance [Within] ※1	D.C.R. (mΩ) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature rise current (A) ※3
CDEP136MENP-0R7MCMT	0R7	0.7 μH ± 20%	1.5(1.2)	25.6(32.0)	20.0(23.0)
CDEP136MENP-1R2MCMT	1R2	1.2 μH ± 20%	2.0(1.6)	18.4(23.0)	19.6(22.2)

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of its nominal value.

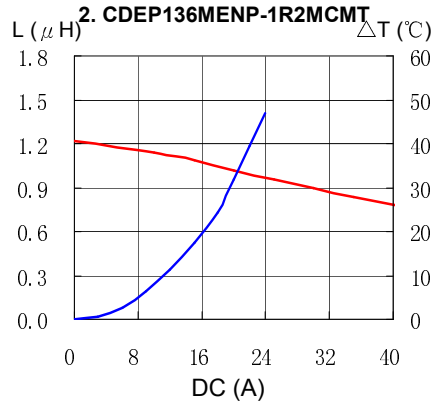
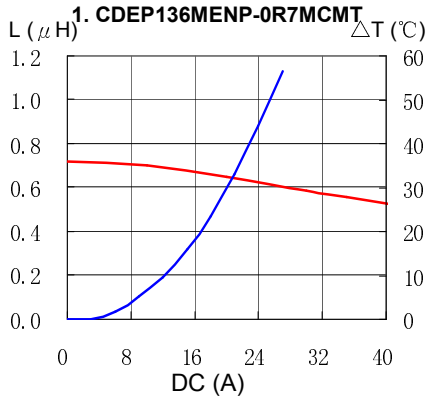
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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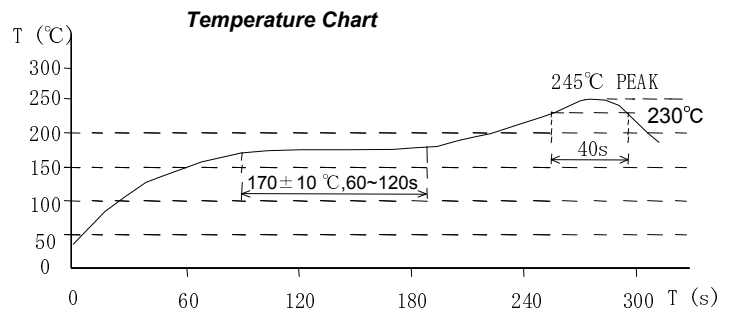
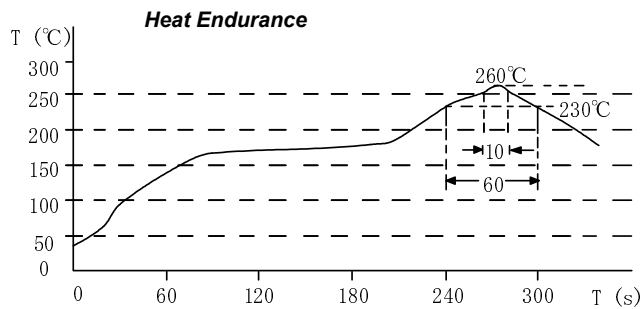


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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