

SMD Power Inductor CDEP125ME



Description

- Metal alloy core construction.
- Magnetically shielded.
- L × W × H: 12.9 × 12.9 × 5.5 mm Max.
- Product weight: 3.2 g(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 ~ +85°C
- Solder reflow temperature: 260 °C peak.

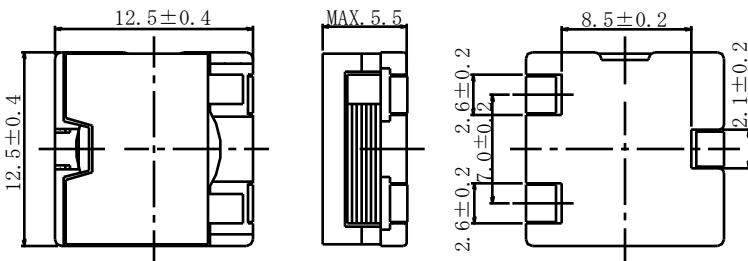
Packaging

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

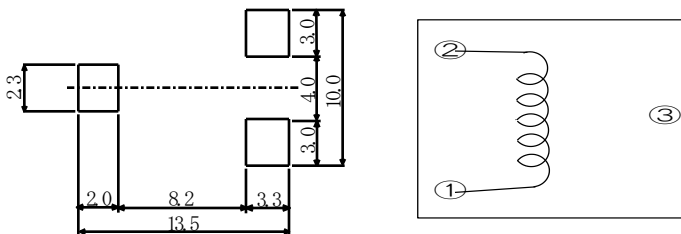
Applications

- Ideally used in personal computer CPU power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

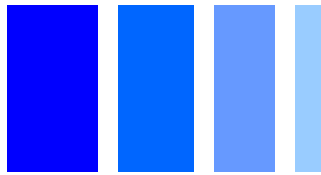
Part No.	Stamp	Inductance(μH) [Within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20°C)	Saturation current (A) ※2	Temperature rise current (A) ※3
CDEP125MENP-0R3NC	0R3N	0.3 ± 25%	1.2(1.0)	40.0	21.0
CDEP125MENP-0R7NC	0R7N	0.7 ± 25%	2.0(1.7)	32.0	20.0
CDEP125MENP-1R2NC	1R2N	1.2 ± 25%	3.1(2.6)	25.6	17.5
CDEP125MENP-2R0NC	2R0N	2.0 ± 25%	4.9(4.1)	20.4	13.5
CDEP125MENP-2R9NC	2R9N	2.9 ± 25%	7.5(6.3)	16.0	11.5

※1. Measuring condition: at 100kHz.

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

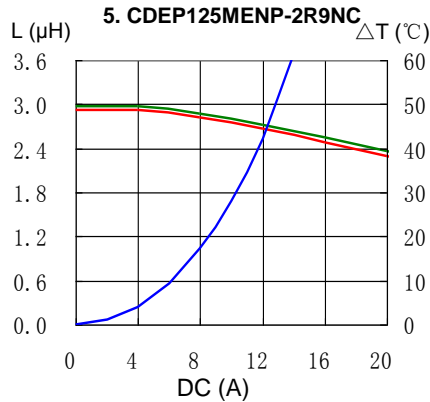
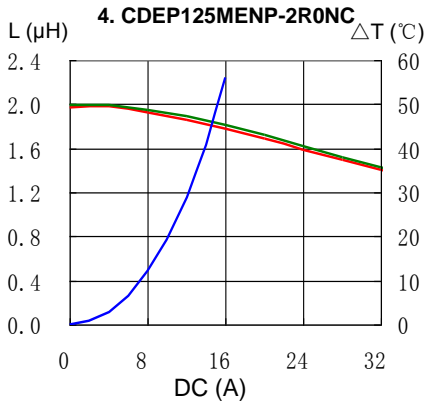
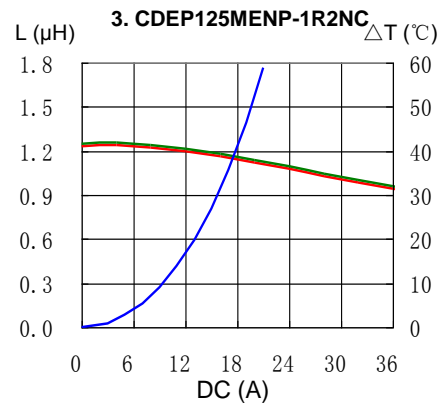
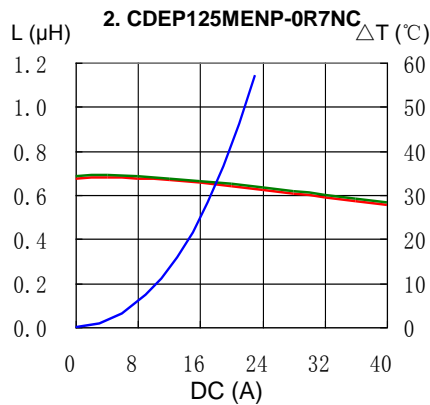
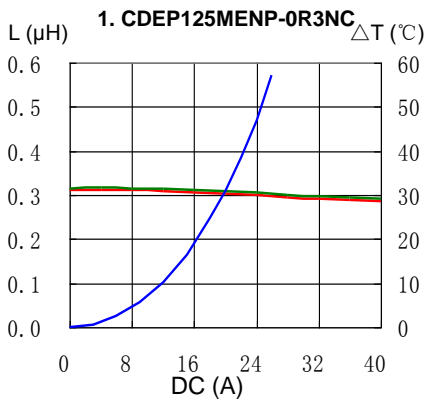
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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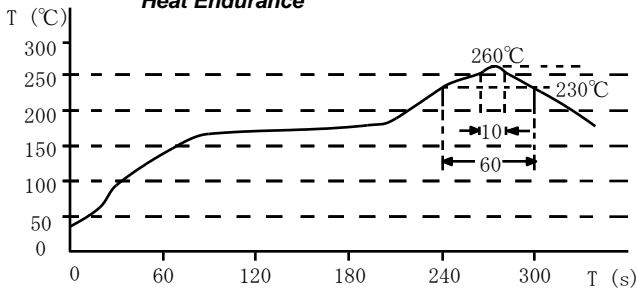
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

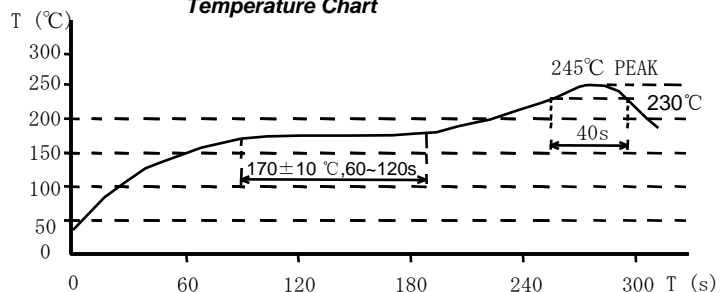


Solder Reflow Condition

Heat Endurance



Temperature Chart



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