



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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.

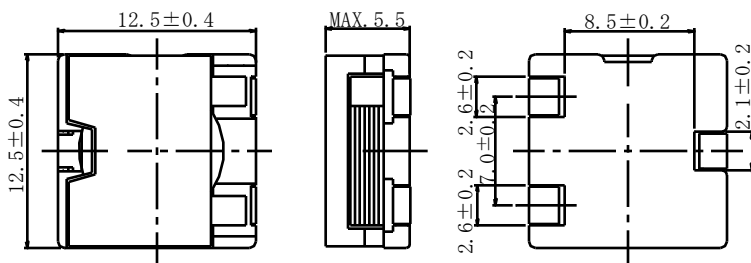
Packaging

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

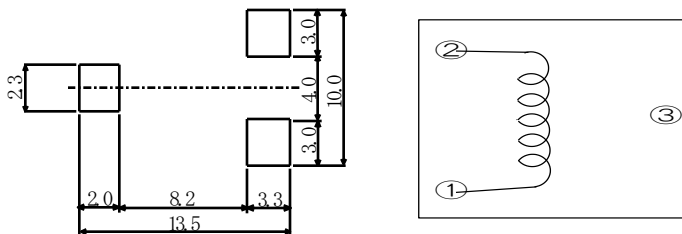
Applications

- 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.

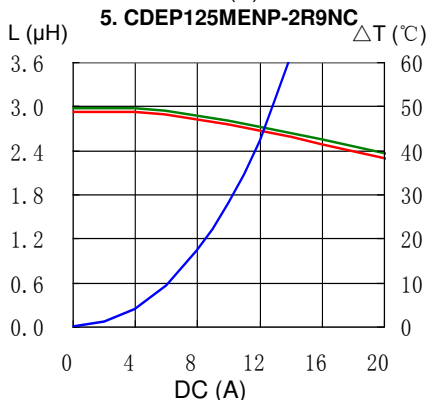
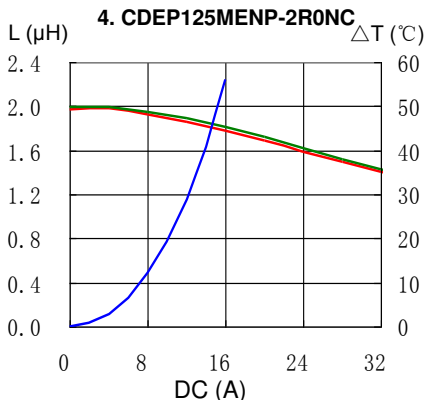
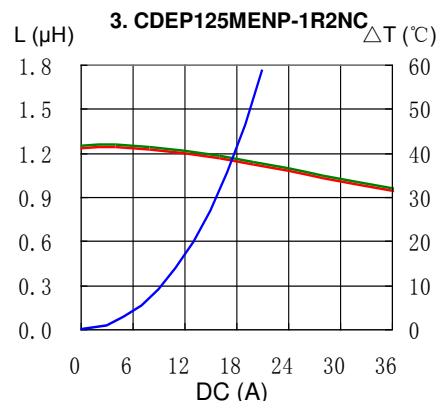
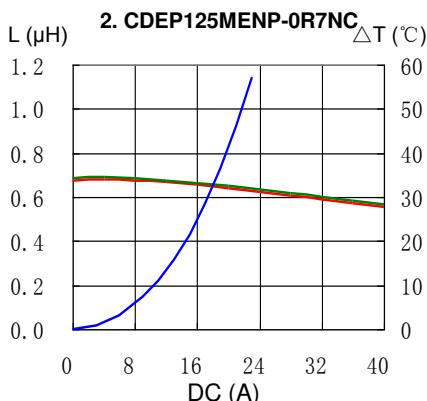
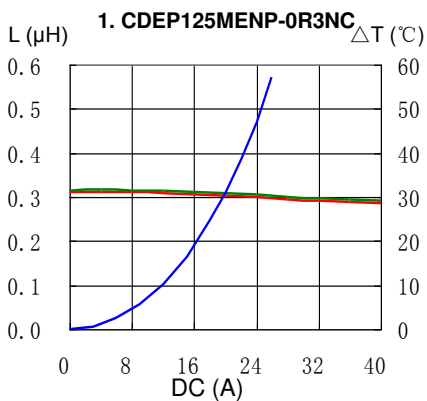
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDEP125ME



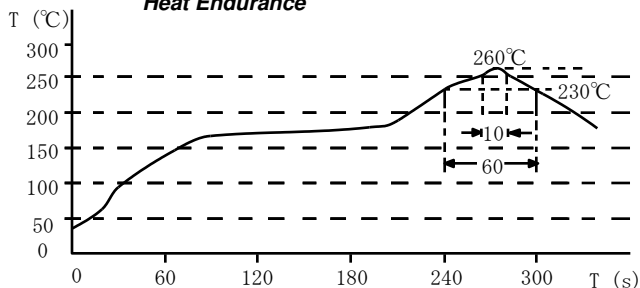
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

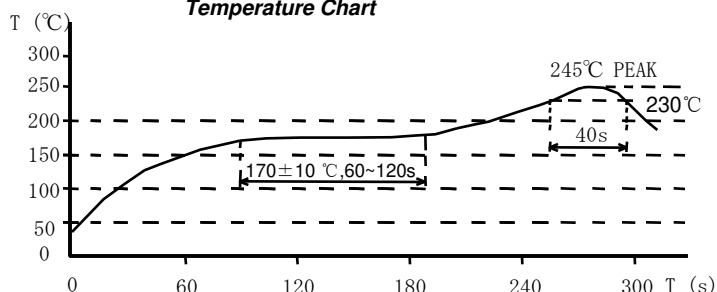


Solder Reflow Condition

Heat Endurance



Temperature Chart



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