

SMD Power Inductor CDEP105ME



Description

- Metal alloy core construction.
- Magnetically shielded.
- L × W × H: 11.4 × 10.4 × 5.5 mm Max.
- Product weight: 2.5 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.

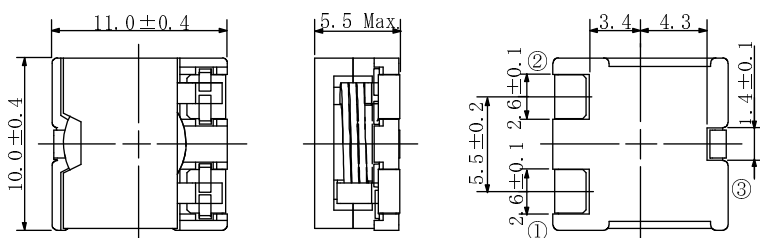
Packaging

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

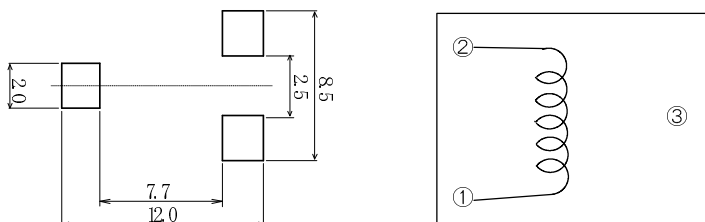
Applications

- 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
CDEP105MENP-R20PC	R20P	0.20 ± 25%	1.15(0.95)	50.0	25.0
CDEP105MENP-R45PC	R45P	0.45 ± 25%	1.75(1.45)	35.0	22.0
CDEP105MENP-R80PC	R80P	0.80 ± 25%	3.10(2.58)	28.0	16.5
CDEP105MENP-1R2PC	1R2P	1.2 ± 25%	4.76(3.97)	21.2	13.5
CDEP105MENP-1R8PC	1R8P	1.8 ± 25%	7.44(6.20)	19.0	10.5
CDEP105MENP-2R7PC	2R7P	2.7 ± 25%	10.2(8.46)	14.4	8.5
CDEP105MENP-3R3PC	3R3P	3.3 ± 25%	15.1(12.6)	12.8	6.5

※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.

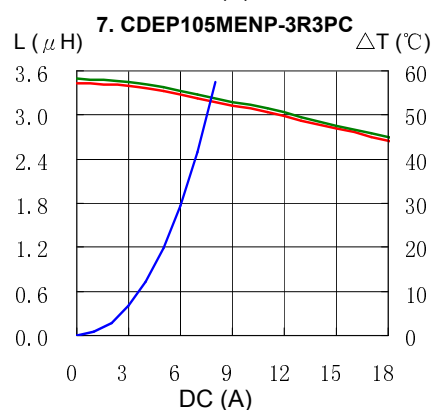
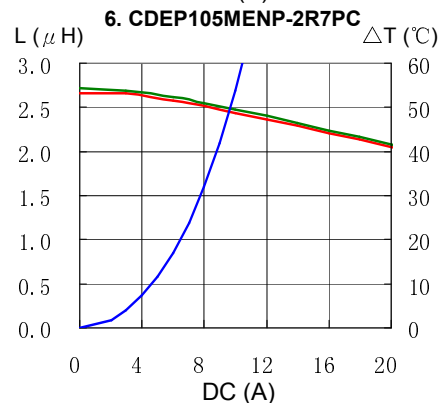
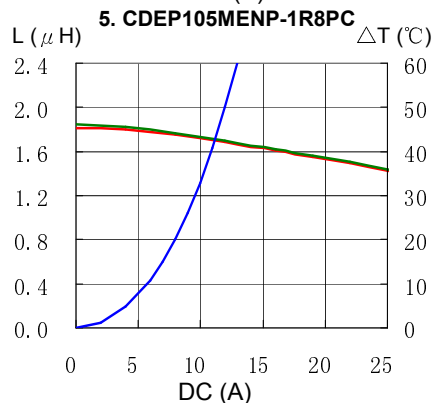
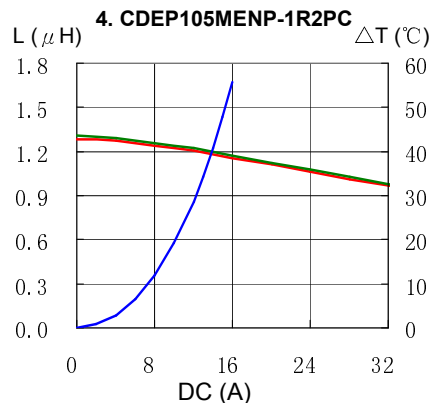
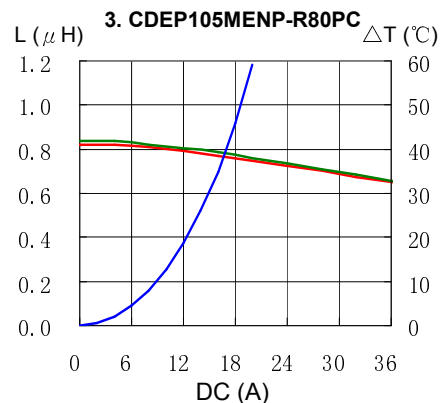
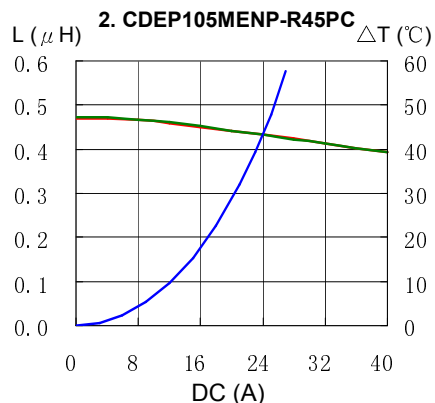
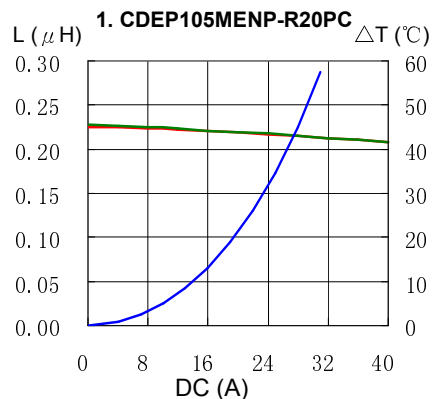
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

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Saturation Current & Temperature Rise Graph

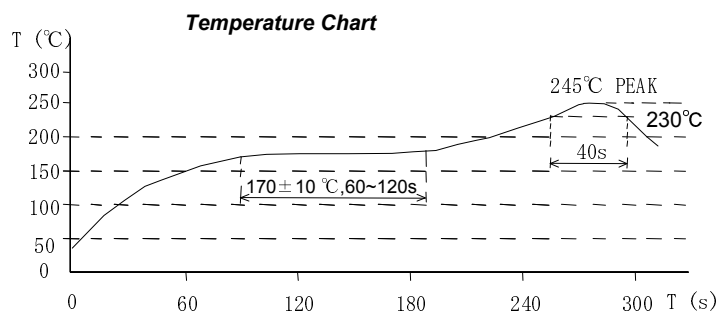
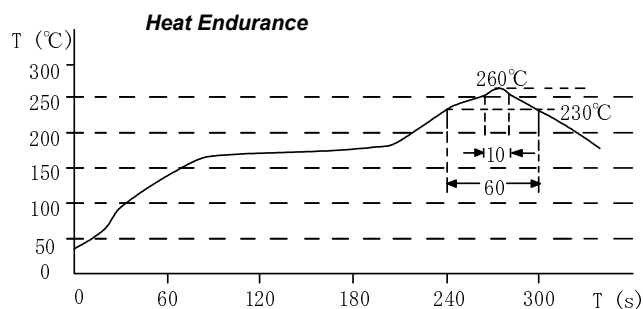
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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