

# SMD Power Inductor CDEPI99



## Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 9.5 × 10.0 mm Max.
- Product weight: 3.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C ~ +105°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C
- Solder reflow temperature: 260 °C peak.

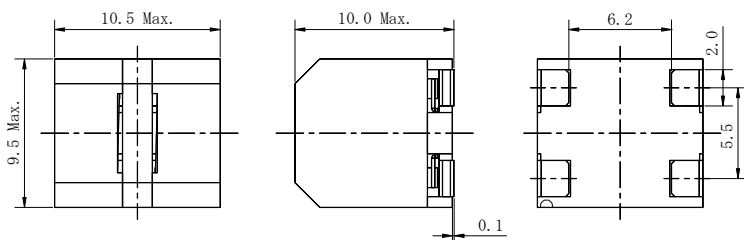
## Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 250pcs per reel

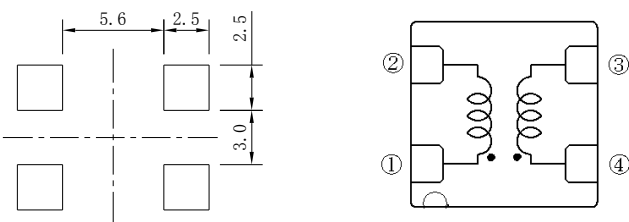
## Applications

- Ideally used in D Class Amplifiers.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

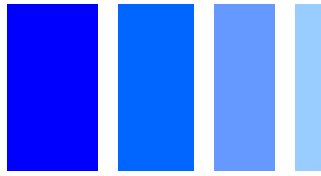
Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Max.] (Typ.)	DC Saturation current (A) ※2	Temperature rise current (A) ※3
CDEPI99NP-5R0PC	5R0	5μH ± 25%	13(10)	7.16(8.95)	7.1(8.1)
CDEPI99NP-100MC	100	10μH ± 20%	26(21)	5.24(6.55)	4.2(4.8)
CDEPI99NP-120MC	120	12μH ± 20%	29(23)	4.68(5.85)	4.1(4.7)
CDEPI99NP-150MC	150	15μH ± 20%	29(23)	3.92(4.90)	4.1(4.7)
CDEPI99NP-180MC	180	18μH ± 20%	29(23)	3.31(4.14)	4.1(4.7)
CDEPI99NP-220MC	220	22μH ± 20%	29(23)	2.82(3.52)	4.1(4.7)

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

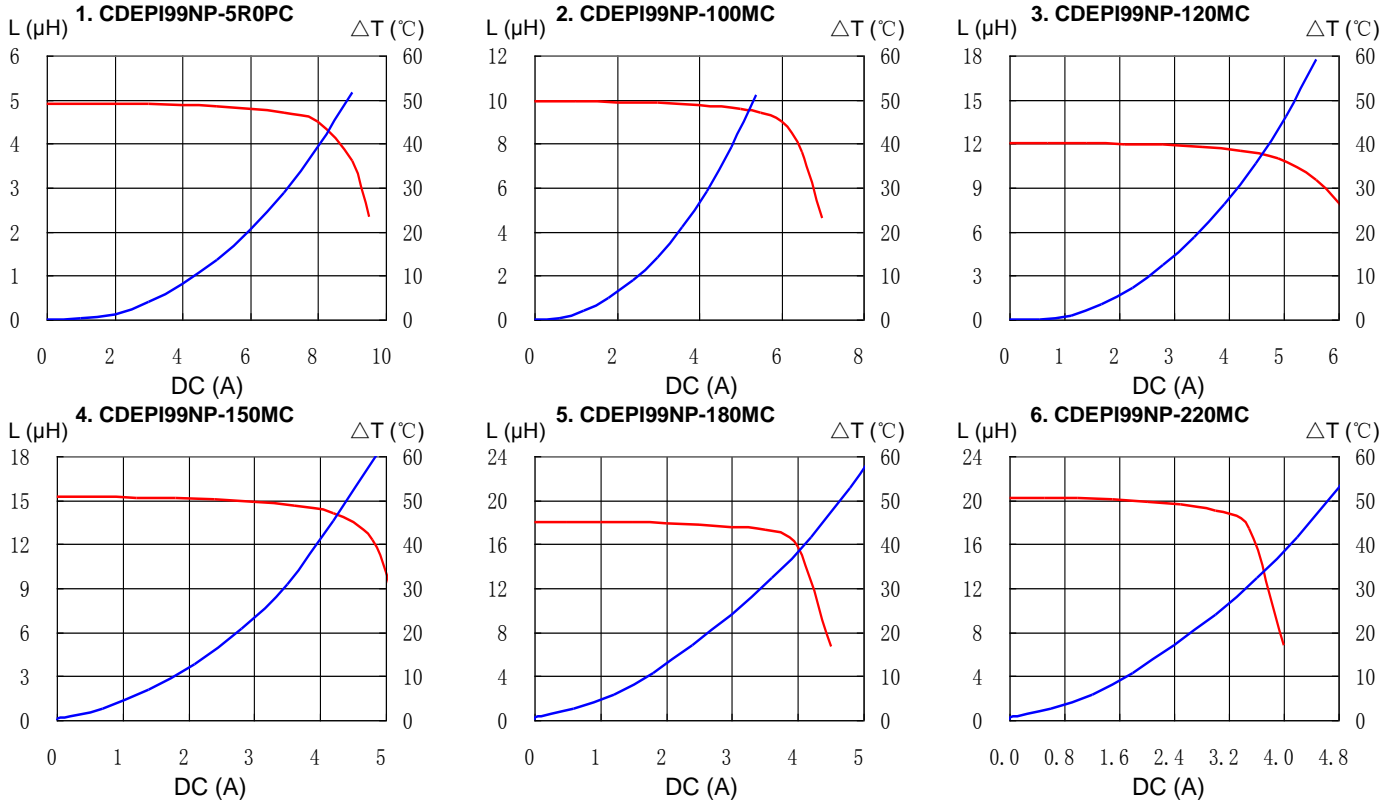
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C(Ta=20°C).

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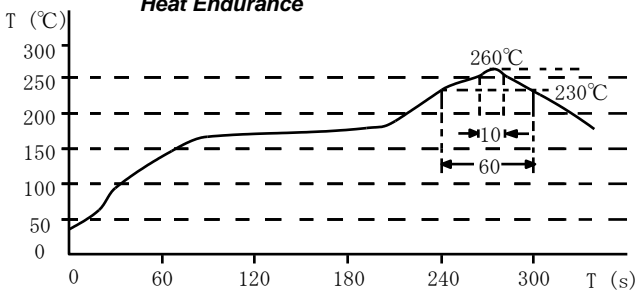
## Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$



## Solder Reflow Condition

Heat Endurance



Temperature Chart

