

SMD Power Inductor

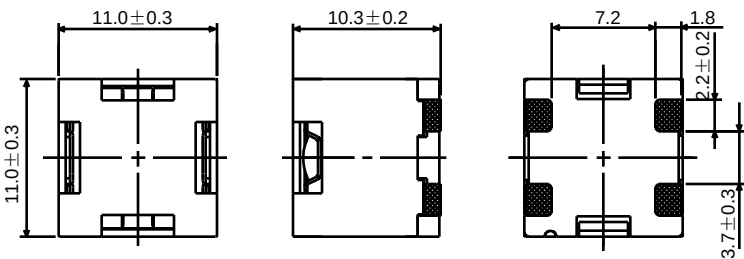
CDEPI106



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 11.3 × 11.3 × 10.5 mm Max.
- Product weight: 3.6 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



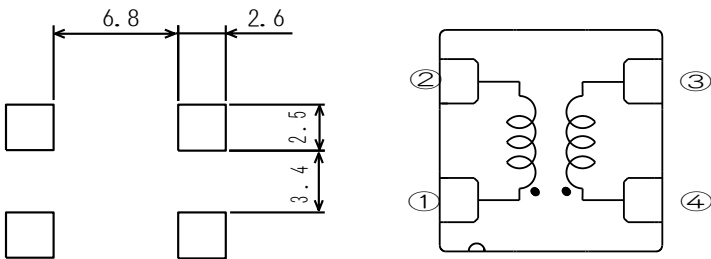
Environmental Data

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

Packaging

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

Land pattern and Schematics - [mm]



Applications

- Ideally used in digital Amplifier in car audio, home theater and large LCD etc.

Electrical Characteristics

PART NAME	STAMP	INDUCTANCE [WITHIN] ※1		D.C.R. (mΩ) [MAX.] (Typ.) (at 20℃)		THE SATURATION CURRENT (A) ※2		HEATING CURRENT (A) ※3
		BETWEEN 1-2	BETWEEN 4-3	BETWEEN 1-2	BETWEEN 4-3	(at 20℃)	(at 105℃)	
CDEPI106NP-100	100	10μH ± 25%	10μH ± 25%	28.8(23.0)	28.8(23.0)	4.9	4.5	4.0
CDEPI106NP-150	150	15μH ± 25%	15μH ± 25%	28.8(23.0)	28.8(23.0)	3.5	3.0	4.0
CDEPI106NP-220	220	22μH ± 30%	22μH ± 30%	28.8(23.0)	28.8(23.0)	2.2	1.9	4.0

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

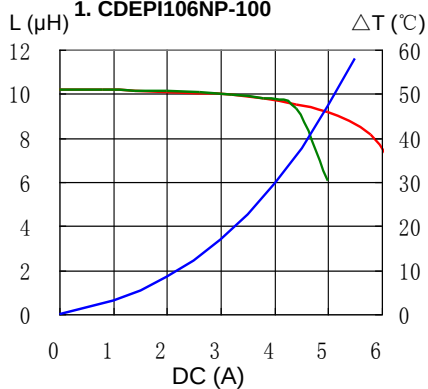
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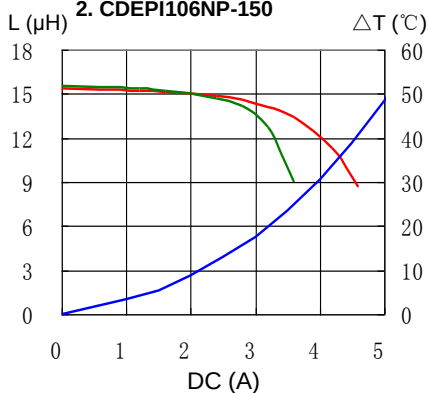
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

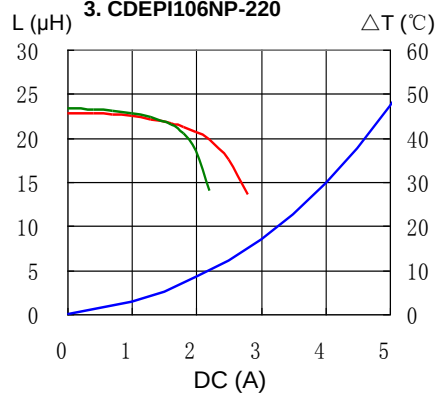
1. CDEPI106NP-100



2. CDEPI106NP-150

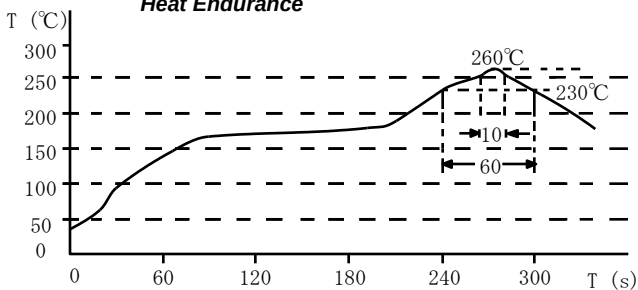


3. CDEPI106NP-220

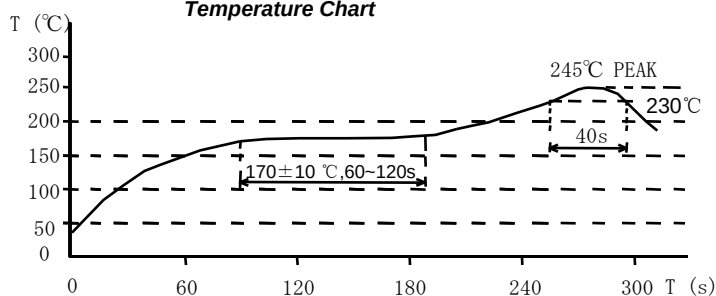


Solder Reflow Condition

Heat Endurance



Temperature Chart



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