SMD Power Inductor
CDEP149

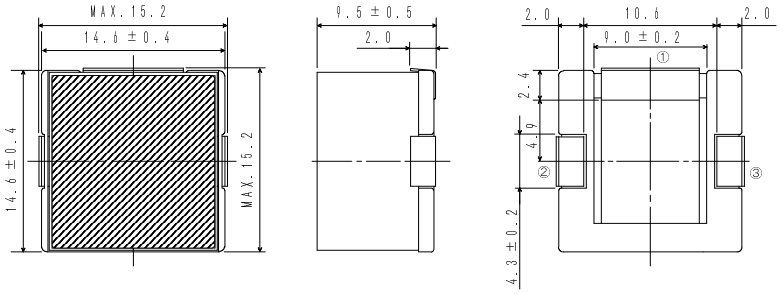
Description
- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 15.2 × 15.2 × 10.0 mm Max.
- Product weight: 7.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃~+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃
- Solder reflow temperature: 260 ℃ peak.

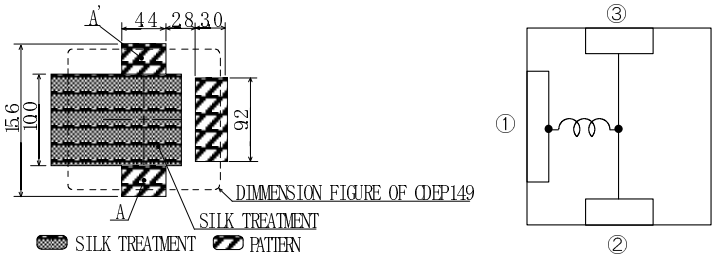
Packaging
- Carrier tape and reel packaging
- 14.6"diameter reel
- 250pcs per reel

Applications
- Ideally used in personal computer CPU power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]



Revised: 6-Jan-12

Electrical Characteristics

Electrical Characteristics - 1

PART NO.	STAMP	INDUCTANCE ［WITHIN］ ※1	D.C.R. (mΩ) [MAX] (Typ.) (at 20℃)	SATURATION CURRENT (A) (at 20℃) ※2	TEMPERATURE RISE CURRENT (A) ※3
CDEP149NP-0R7NC	0R7N	0.75μH±30%	1.1(0.9)	24.0	35.0
CDEP149NP-1R7MC	1R7M	1.7μH±20%	1.6(1.3)	16.8	30.0
CDEP149NP-3R0MC	3R0M	3.0μH±20%	2.3(1.9)	12.4	28.0

Electrical Characteristics - 2

PART NO.	STAMP	INDUCTANCE ［WITHIN］ ※1	D.C.R. (mΩ) [MAX] (Typ.) (at 20℃)	SATURATION CURRENT (A) (at 20℃) ※2	TEMPERATURE RISE CURRENT (A) ※3
CDEP149NP-0R4NC-H	0R4N	0.45μH±30%	1.1(0.9)	32.0	35.0
CDEP149NP-1R0MC-H	1R0M	1.0μH±20%	1.6(1.3)	26.0	30.0
CDEP149NP-1R8MC-H	1R8M	1.8μH±20%	2.3(1.9)	20.0	28.0

※1. Measuring condition: at 100kHz.
※2. Saturation current:The value of D.C. current when the inductance decreases to 65% (while the inductance tolerance is ±30%) or 75% (while the inductance tolerance is±20%) of it's nominal.
※3. Temperature rise current: The value of D.C. current when the temperature rise is △t=40℃(Ta=20℃).

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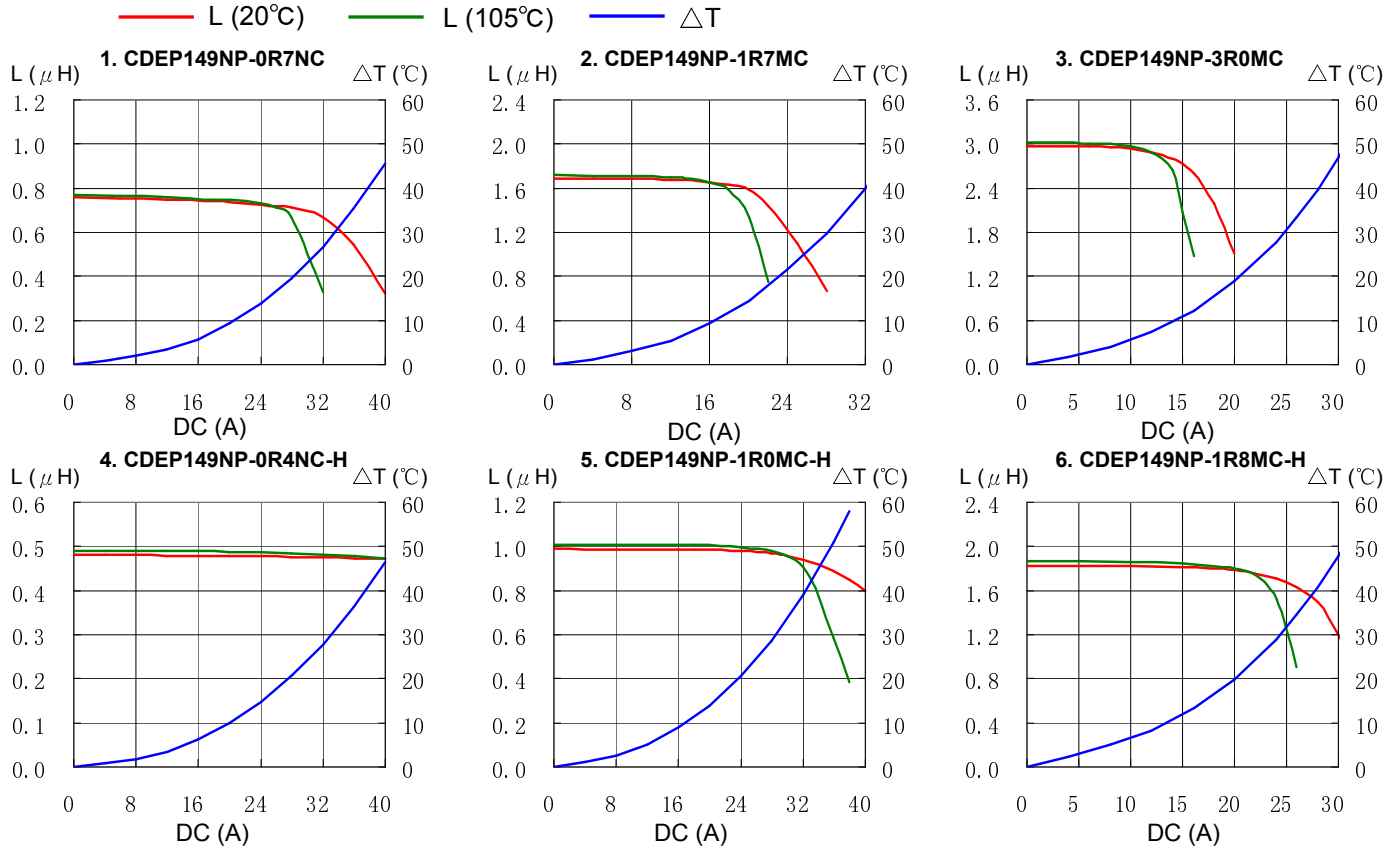
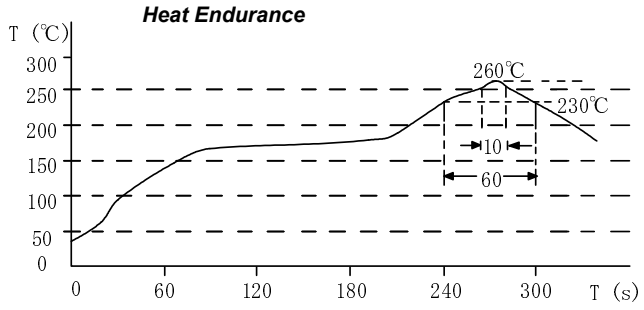
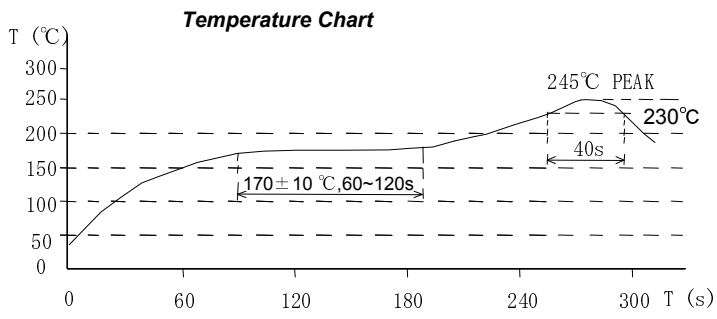
Saturation Current & Temperature Rise Graph



Solder Reflow Condition





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