



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 CEPH149



## Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 15.0 × 15.0 × 10.0 mm Max.
- Product weight: 7.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

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

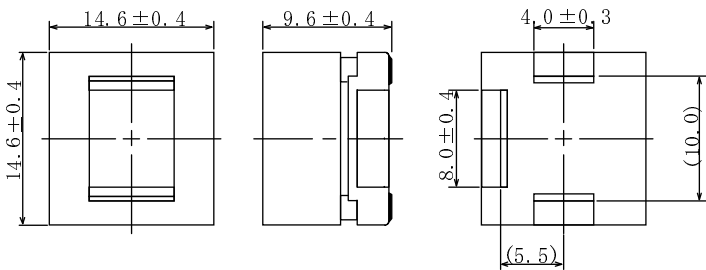
## Packaging

- Pallet packaging

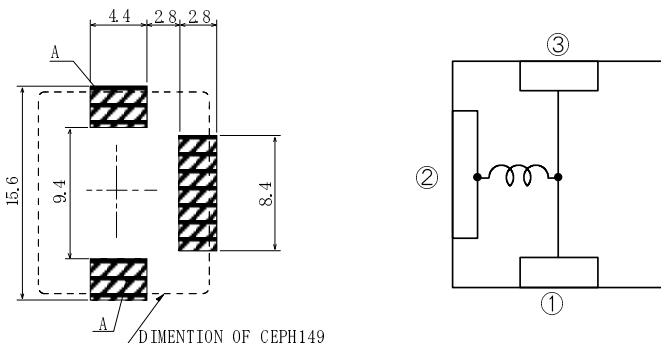
## Applications

- Ideally used in portable computer CPU server power supply.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R.(mΩ) [MAX.] (Typ.) (at 20°C)	RATED CURRENT (A) ※2
CEPH149NP-1R0MC	1R0M	1.0 μH ± 20%	1.2(0.99)	20.0
CEPH149NP-1R6MC	1R6M	1.6 μH ± 20%	1.5(1.24)	15.5
CEPH149NP-2R4MC	2R4M	2.4 μH ± 20%	1.5(1.24)	10.0

※1. Measuring condition: at 100 kHz.

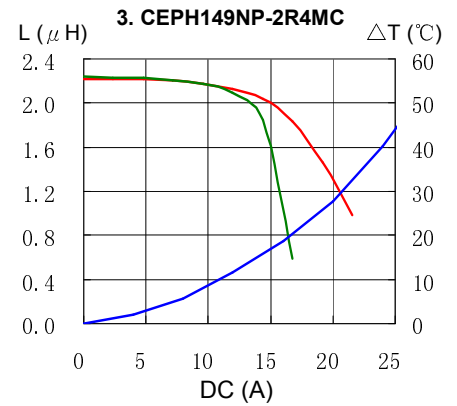
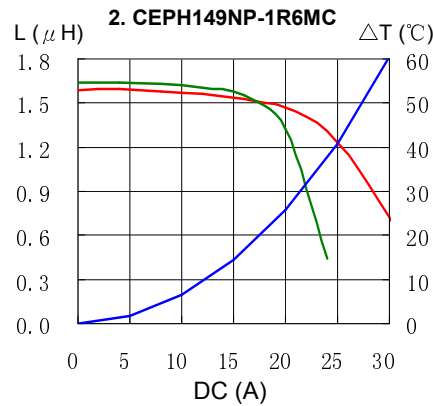
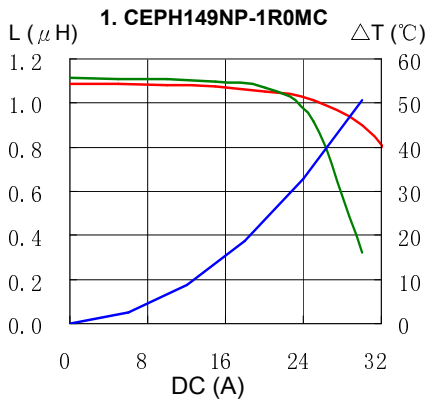
※2. Rated current: The DC current at which the inductance decreases to 90% of its nominal value or when Δt=40°C, whichever is lower.

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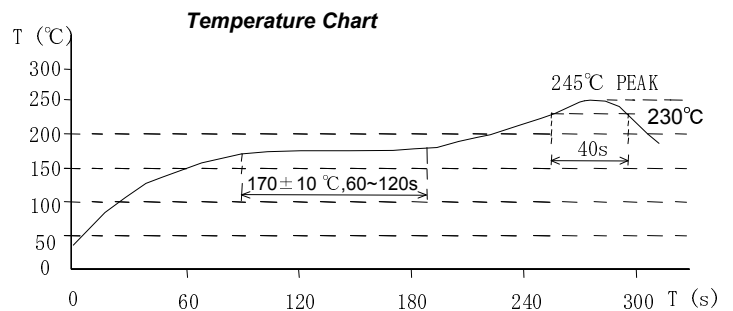
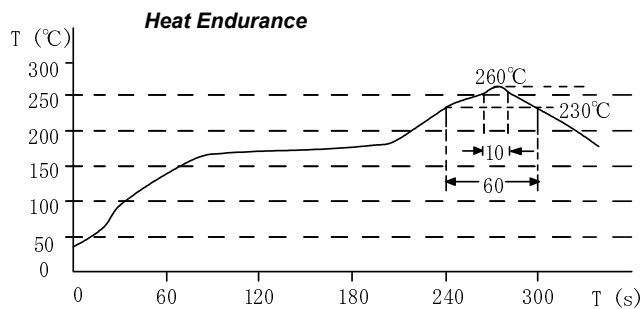


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



## Solder Reflow Condition



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