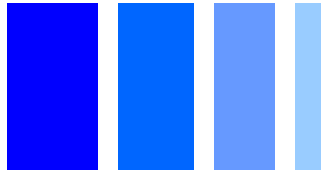


SMD Power Inductor CDEP149



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

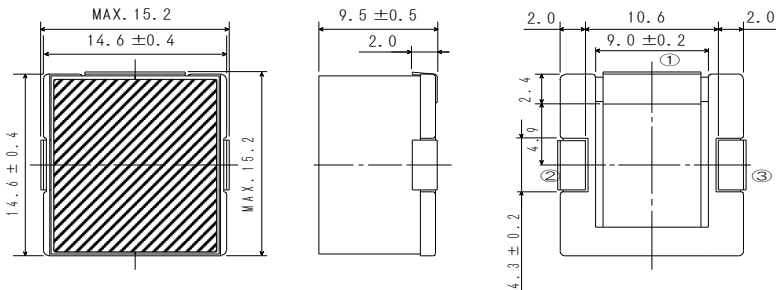
Packaging

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

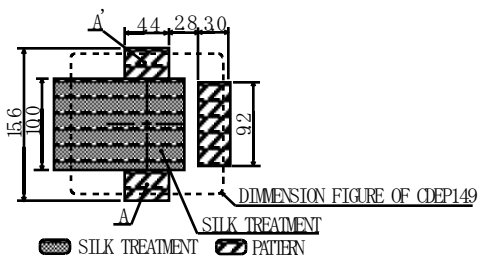
Applications

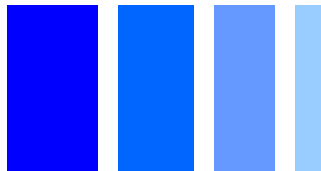
- Ideally used in personal computer CPU power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]





Electrical Characteristics

Electrical Characteristics - 1

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX] (Typ.) (at 20°C)	SATURATION CURRENT (A) (at 20°C) ※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°C)	SATURATION CURRENT (A) (at 20°C) ※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.

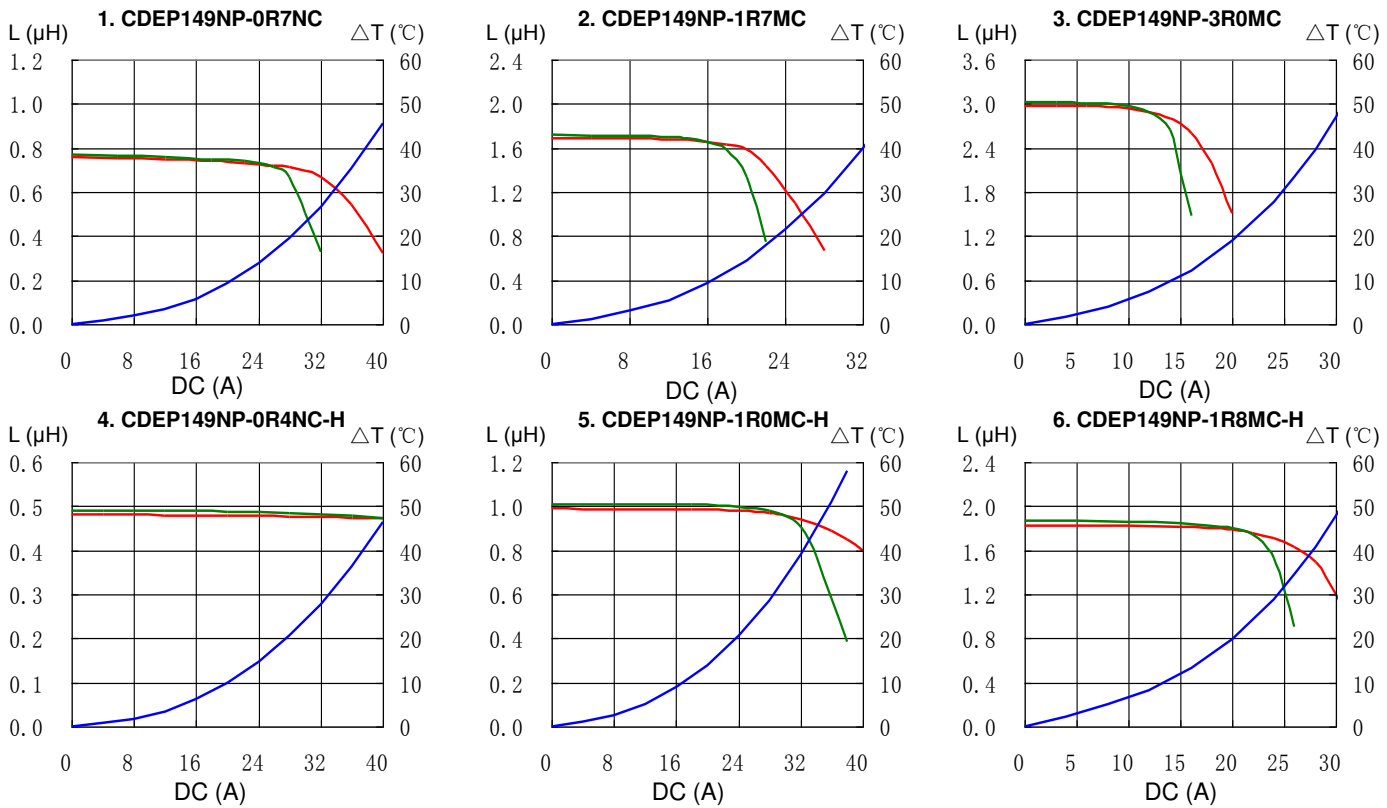
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDEP149



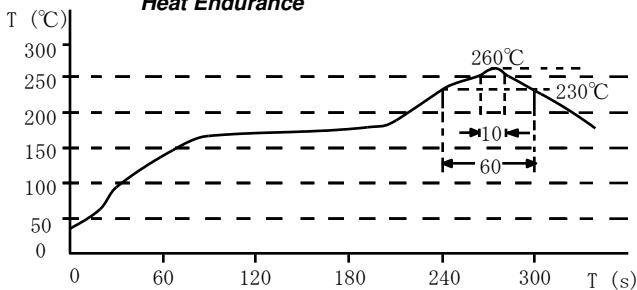
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

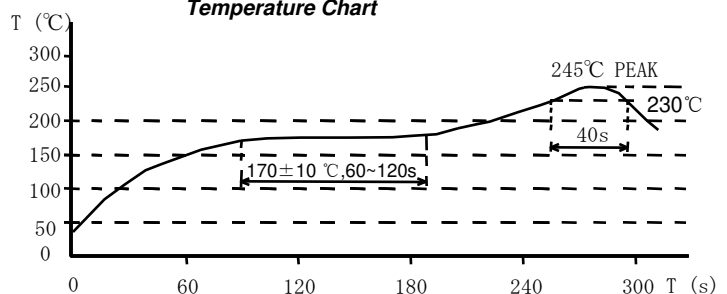


Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - <http://www.sumida.com>

Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com