

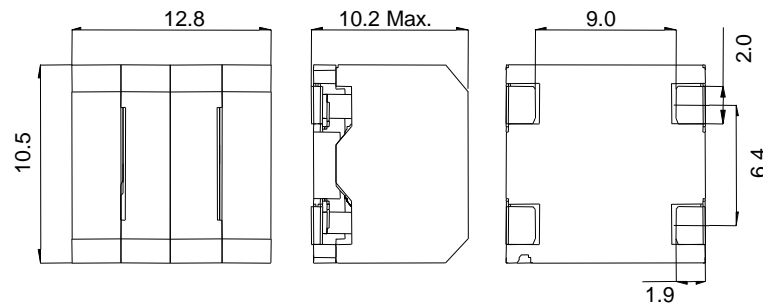
# SMD Power Inductor C2DEP1010



## Description

- Ferrite core 2 in 1 construction.
- Magnetically shielded.
- L × W × H: 13.3 × 11.0 × 10.2 mm Max.
- Product weight: 5.2g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Dimension - [mm]



## 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.

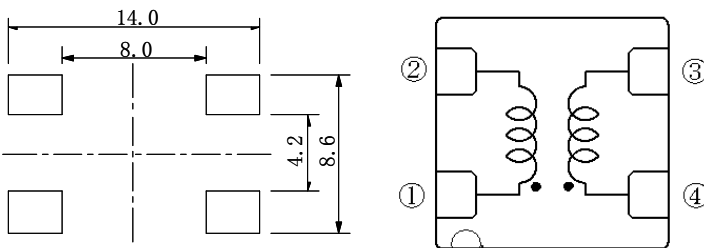
## Packaging

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

## Applications

- Ideally used in LPF of digital amplifiers.

## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part Name	Stamp	Inductance(μH) (1-2);(4-3) ※1	D.C.R. (mΩ) [MAX.](at 20°C) (1-2);(4-3) ※2	Saturation Current (A) (at 20°C) ※3	Temperature rise Current (A) ※4
C2DEP1010NP-100MC-120	100	10μH±20%	14.0 (11.0)	6.2(7.3)	6.6(7.6)
C2DEP1010NP-120MC-120	120	12μH±20%	18.0 (15.0)	6.0(7.0)	5.7(6.5)
C2DEP1010NP-150MC-120	150	15μH±20%	20.0 (16.0)	5.4(6.1)	5.4(6.2)
C2DEP1010NP-180MC-120	180	18μH±20%	25.0 (21.0)	4.8(5.8)	5.0(5.6)
C2DEP1010NP-220MC-120	220	22μH±20%	27.0 (22.0)	4.3(5.1)	4.9(5.5)

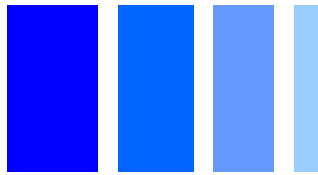
※1 Inductance tested at 100kHz.

※2 ( ) are typical Value.

※3 This indicates the value of current when the inductance decreases to 75% of the nominal value.

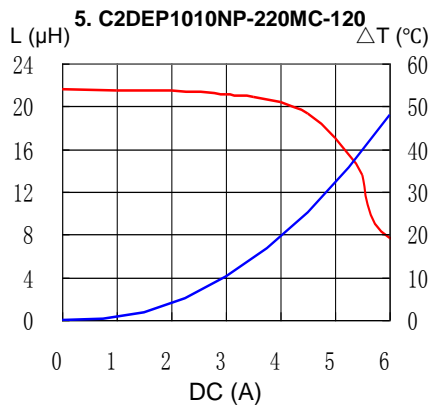
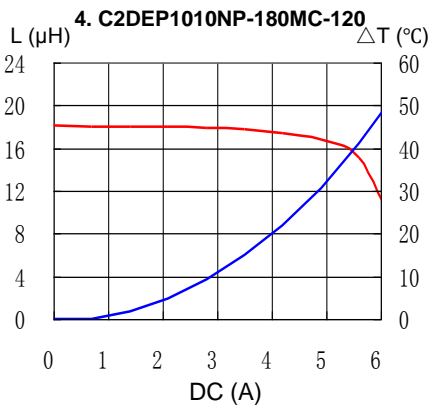
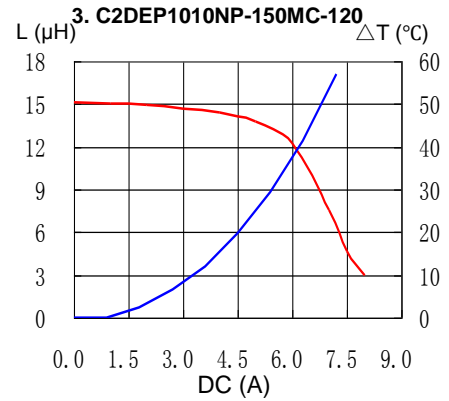
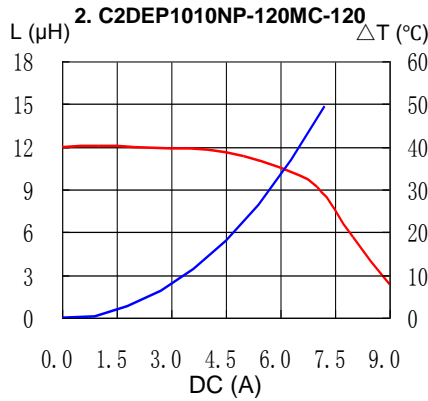
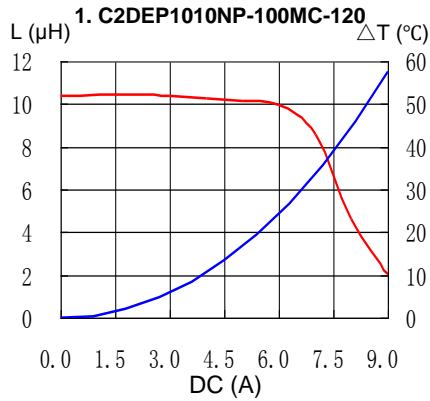
※4 Temperature rise current: the value of DC current when the temperature rise is ΔT=40°C(Ta=20°C).

# SMD Power Inductor C2DEP1010



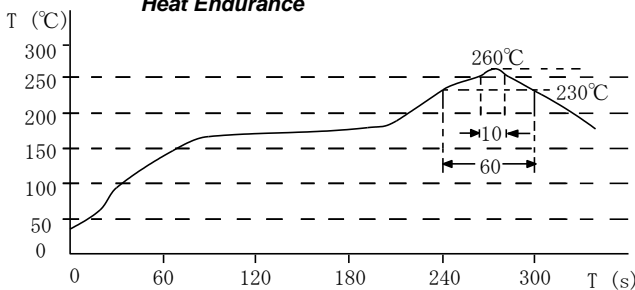
## Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$

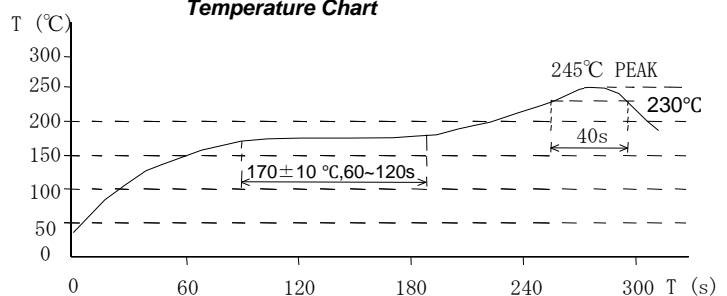


## Solder Reflow Condition

### 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](mailto:sales@hk.sumida.com)

### Saitama(Japan)

Tel.+81-48-691-7300  
FAX.+81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

### Chicago

Tel.+1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

### Shanghai

Tel.+86-21-5836-3299  
FAX.+86-21-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

### Seoul

Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

### Obernzell

Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@eu.sumida.com](mailto:contact@eu.sumida.com)

### Shenzhen

Tel.+86-755-8291-0228  
FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

### Singapore

Tel.+65-6296-3388  
FAX.+65-6841-4426  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

### Neumarkt

Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

### Taipei

Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

### San Jose

Tel.+1-408-321-9660  
FAX.+1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)