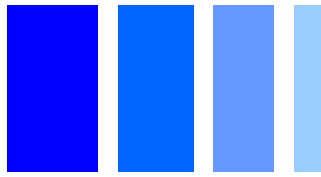


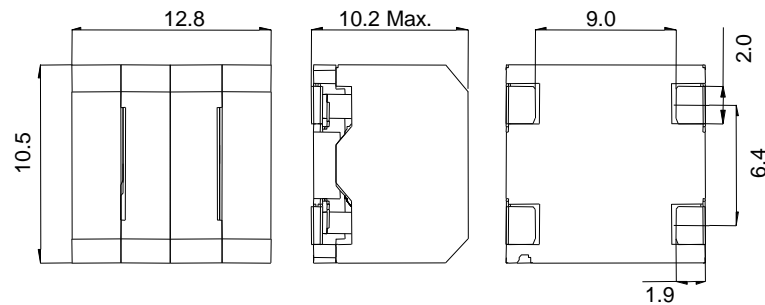
# SMD Power Inductor C2DEP1010



## 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.

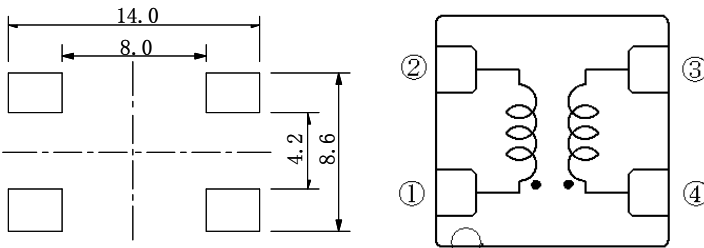
## Packaging

- 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)

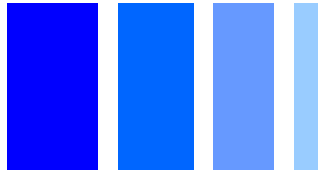
※1 Inductance tested at 100kHz.

※2 ( ) are typical Value.

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

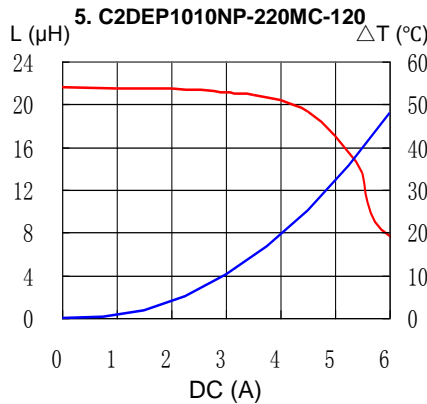
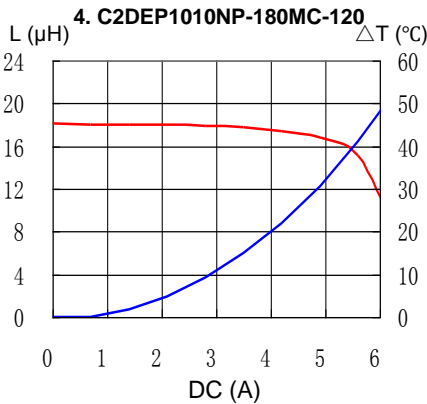
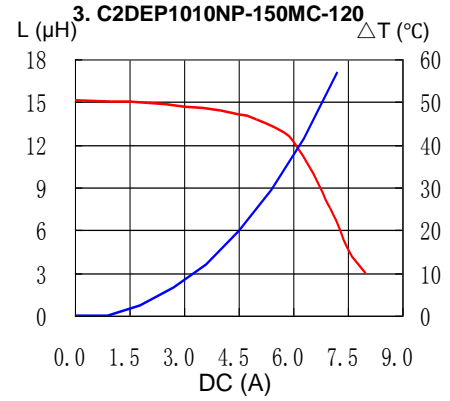
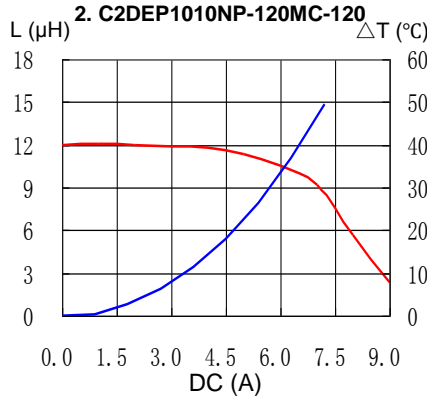
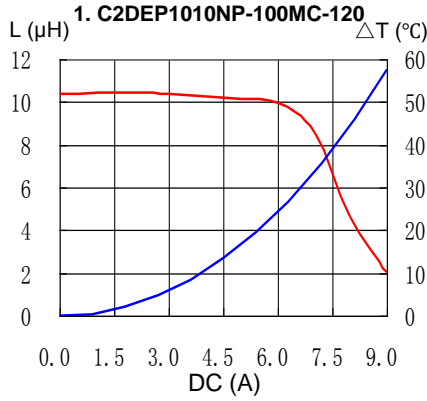
※4 Temperature rise current: the value of DC current when the temperature rise is ΔT=40°C(Ta=20°C).

# SMD Power Inductor C2DEP1010



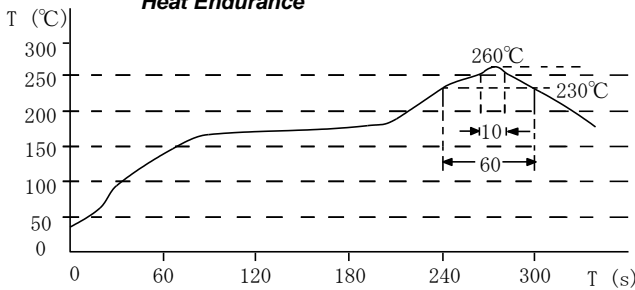
## Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$

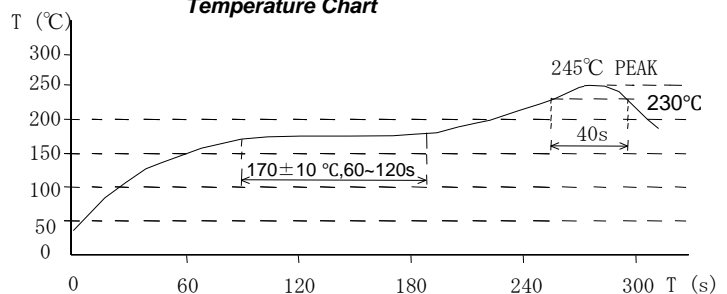


## Solder Reflow Condition

### Heat Endurance



### Temperature Chart



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