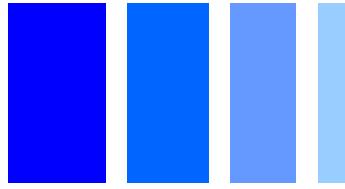


SMD Power Inductor C2DEP1010



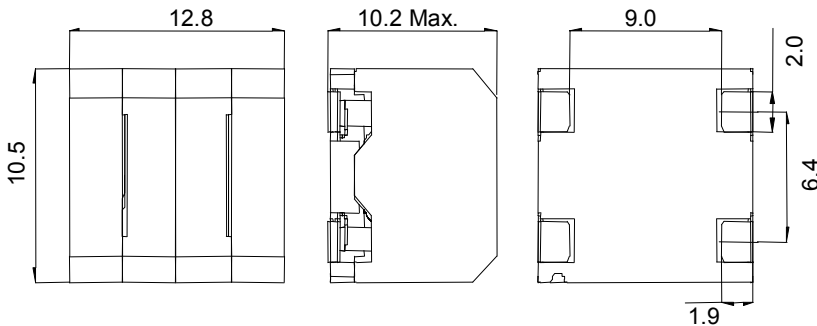
Halogen Free



Description

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

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.

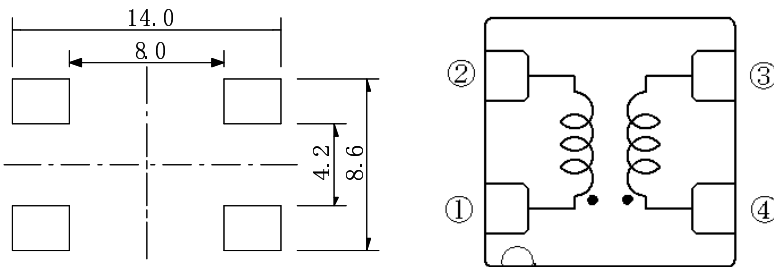
Packaging

- 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(μ H) (1-2);(4-3) ※1 | D.C.R. (m Ω) [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 | 10 μ H \pm 20% | 14.0 (11.0) | 6.2(7.3) | 6.6(7.6) |
| C2DEP1010NP-120MC-120 | 120 | 12 μ H \pm 20% | 18.0 (15.0) | 6.0(7.0) | 5.7(6.5) |
| C2DEP1010NP-150MC-120 | 150 | 15 μ H \pm 20% | 20.0 (16.0) | 5.4(6.1) | 5.4(6.2) |
| C2DEP1010NP-180MC-120 | 180 | 18 μ H \pm 20% | 25.0 (21.0) | 4.8(5.8) | 5.0(5.6) |
| C2DEP1010NP-220MC-120 | 220 | 22 μ H \pm 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.

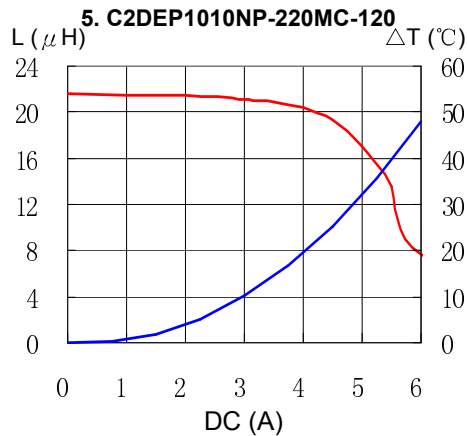
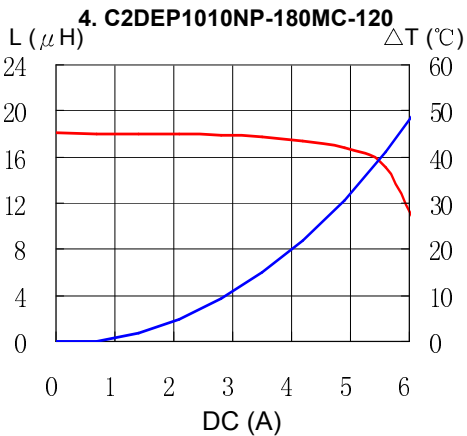
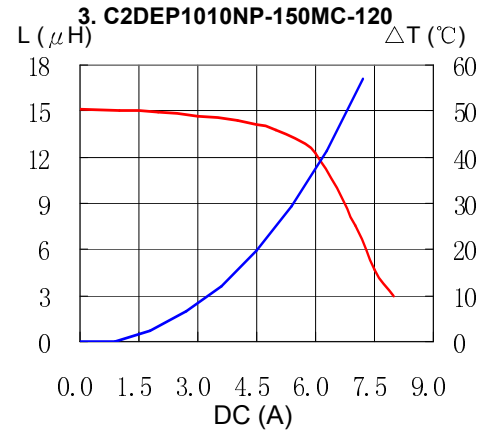
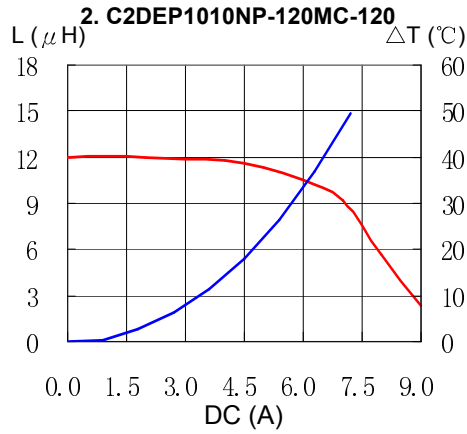
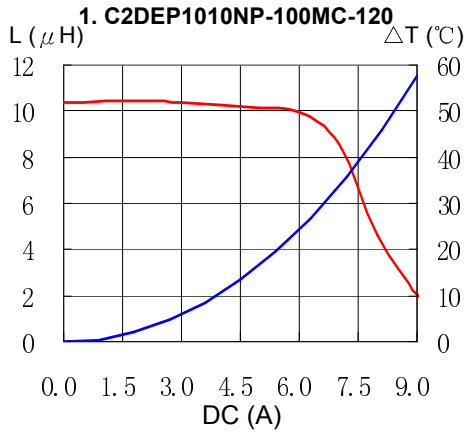
※4 Temperature rise current: the value of DC current when the temperature rise is $\Delta T=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

SMD Power Inductor C2DEP1010



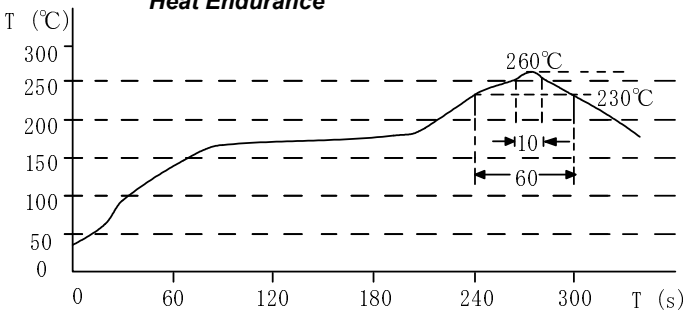
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

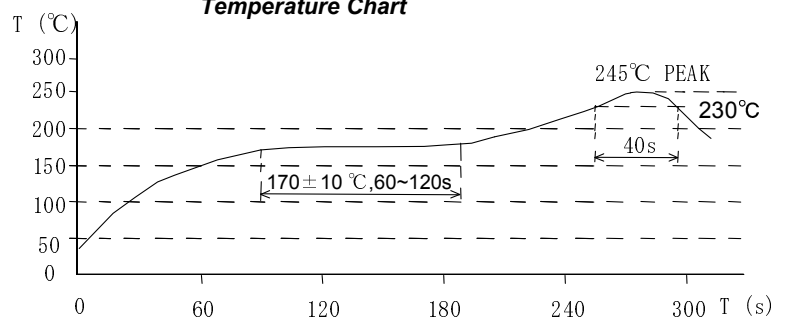


Solder Reflow Condition

Heat Endurance



Temperature Chart



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