

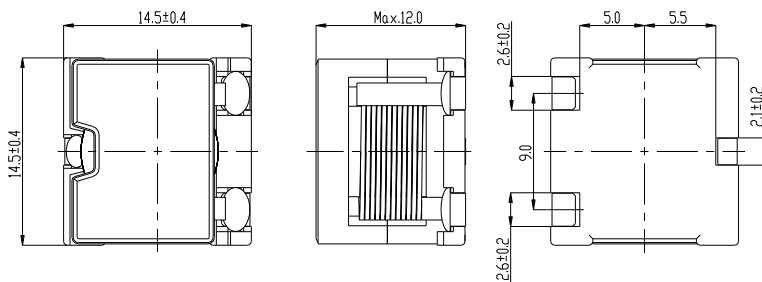
# SMD Power Inductor CDEP1411



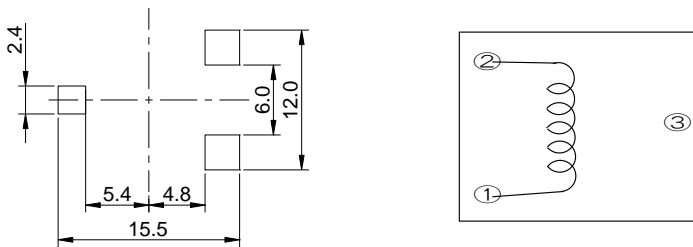
## Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 14.9 × 14.9 × 12.0mm Max.
- Product weight: 7.8g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Environmental Data

- Operating temperature range: -40℃ ~ +105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃ ~ +105℃
- Solder reflow temperature: 260 °C peak.

## Packaging

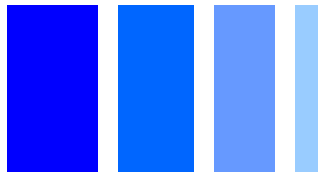
- Carrier tape and reel packaging.

## Applications

- Ideally used in PC , game machine and other high current power supply.

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## CDEP1411



### Electrical Characteristics - 1

Part name	Stamp	Inductance (uH) [Within] ※1	D.C.R. (mΩ) [Max.] (at 20℃)	The saturation current (A) ※2		Temperature rise current (A) ※3
				(at20℃)	(at105℃)	
CDEP1411NP-7R4MC-150	7R4MH	7.4 ± 20%	4.44(3.7)	10.8	8.4	13.0
CDEP1411NP-100MC-150	100MH	10 ± 20%	5.40(4.5)	9.2	6.9	12.5
CDEP1411NP-120MC-150	120MH	12 ± 20%	7.56(6.3)	8.5	6.5	10.3
CDEP1411NP-150MC-150	150MH	15 ± 20%	8.40(7.0)	8.0	6.0	9.6
CDEP1411NP-180MC-150	180MH	18 ± 20%	9.72(8.1)	7.2	5.5	9.0
CDEP1411NP-220MC-150	220MH	22 ± 20%	11.28(9.4)	6.4	5.0	8.3

### Electrical Characteristics - 2

Part name	Stamp	Inductance (uH) [Within] ※1	D.C.R. (mΩ) [Max.] (at 20℃)	The saturation current (A) ※2		Temperature rise current (A) ※3
				(at20℃)	(at105℃)	
CDEP1411NP-4R7MC-95	4R7ML	4.7 ± 20%	4.44(3.7)	18.4	14.0	13.0
CDEP1411NP-6R1MC-95	6R1ML	6.1 ± 20%	5.40(4.5)	16.4	12.4	12.5
CDEP1411NP-7R7MC-95	7R7ML	7.7 ± 20%	7.56(6.3)	14.8	11.2	10.3
CDEP1411NP-100MC-95	100ML	10 ± 20%	8.40(7.0)	13.1	10.0	9.6
CDEP1411NP-120MC-95	120ML	12 ± 20%	9.72(8.1)	11.8	9.0	9.0
CDEP1411NP-140MC-95	140ML	14 ± 20%	11.28(9.4)	10.9	8.3	8.3

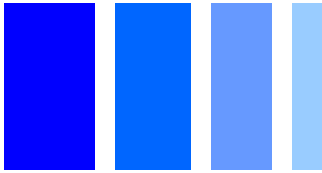
※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

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

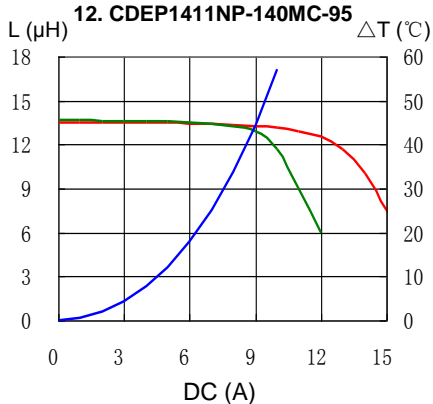
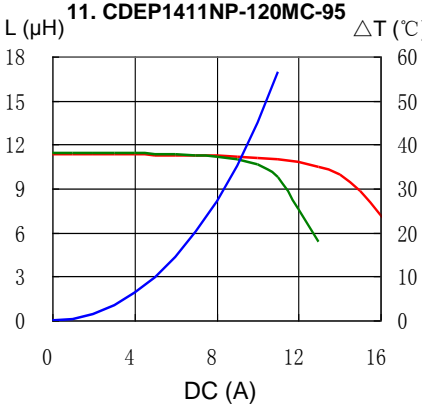
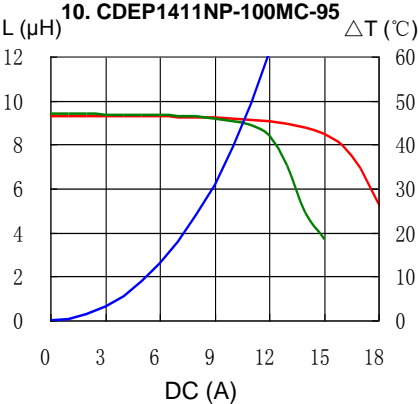
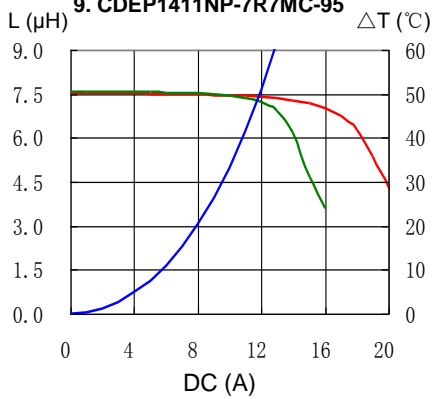
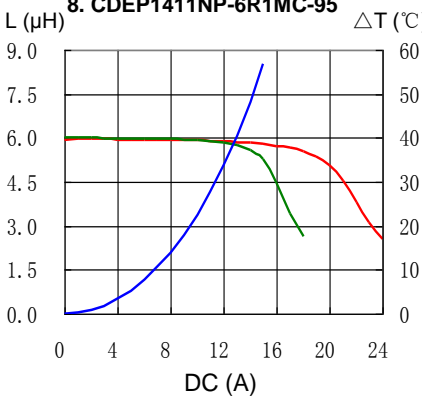
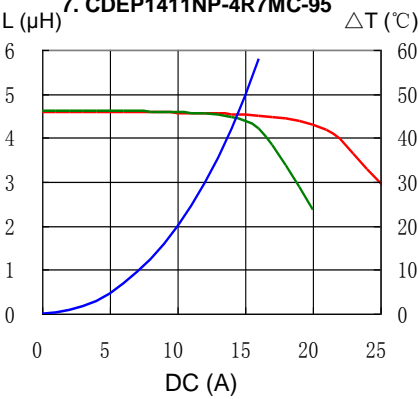
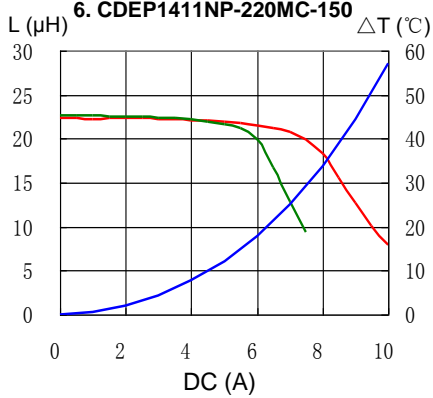
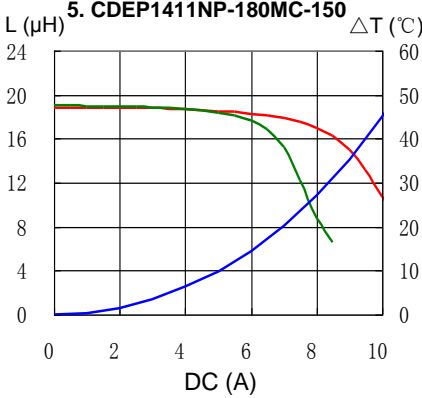
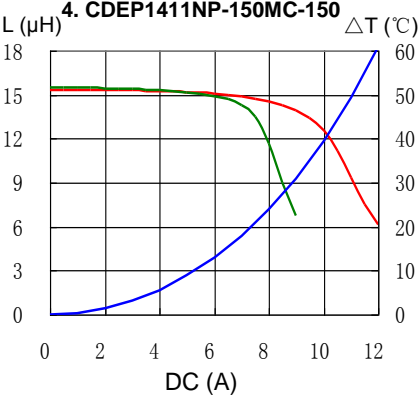
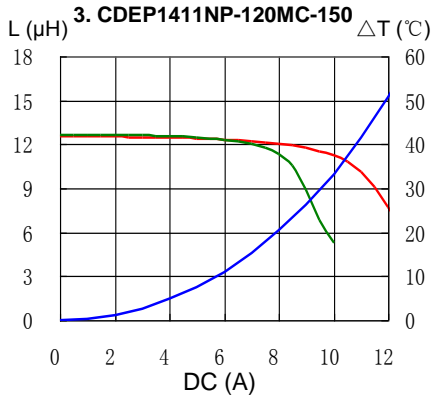
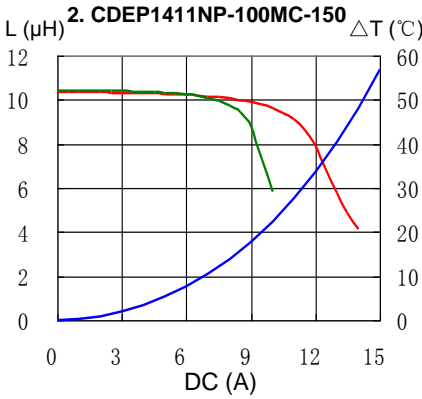
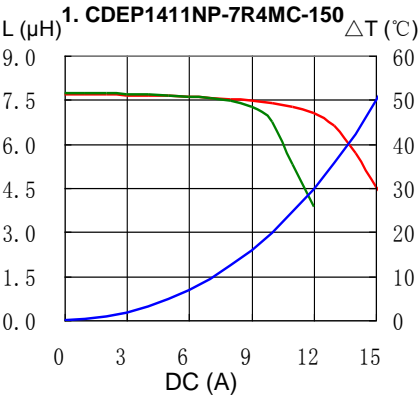
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### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



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## Solder Reflow Condition

