

SMD Power Inductor CDEP1411



Halogen
Free



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.
- Halogen Free available.

Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

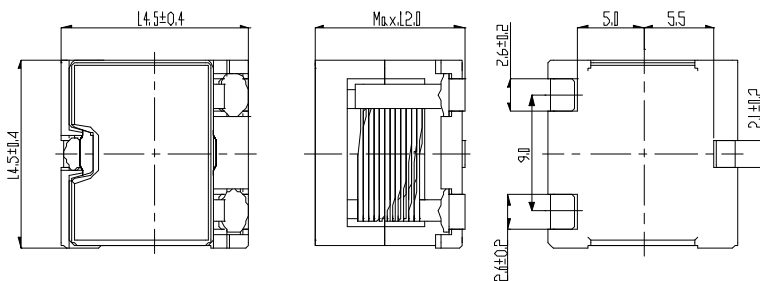
Packaging

- Carrier tape and reel packaging.

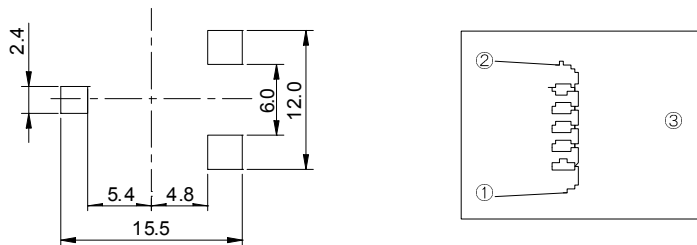
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics - 1

Part name	Stamp	Inductance (uH) [Within] ※1	D.C.R. (mΩ) [Max.] (at 20°C)	The saturation current (A) ※2		Temperature rise current (A) ※3
				(at20°C)	(at105°C)	
CDEP1411NP-7R4MC-15Ø	7R4MH	7.4±20%	4.44(3.7)	10.8	8.4	13.0
CDEP1411NP-1ØØMC-15Ø	100MH	10±20%	5.40(4.5)	9.2	6.9	12.5
CDEP1411NP-12ØMC-15Ø	120MH	12±20%	7.56(6.3)	8.5	6.5	10.3
CDEP1411NP-15ØMC-15Ø	150MH	15±20%	8.40(7.0)	8.0	6.0	9.6
CDEP1411NP-18ØMC-15Ø	180MH	18±20%	9.72(8.1)	7.2	5.5	9.0
CDEP1411NP-22ØMC-15Ø	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°C)	The saturation current (A) ※2		Temperature rise current (A) ※3
				(at20°C)	(at105°C)	
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-1ØØMC-95	100ML	10±20%	8.40(7.0)	13.1	10.0	9.6
CDEP1411NP-12ØMC-95	120ML	12±20%	9.72(8.1)	11.8	9.0	9.0
CDEP1411NP-14ØMC-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 its nominal value.

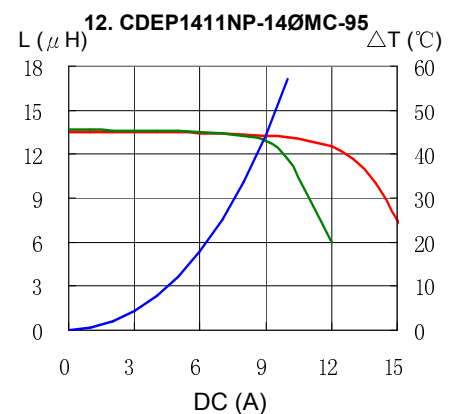
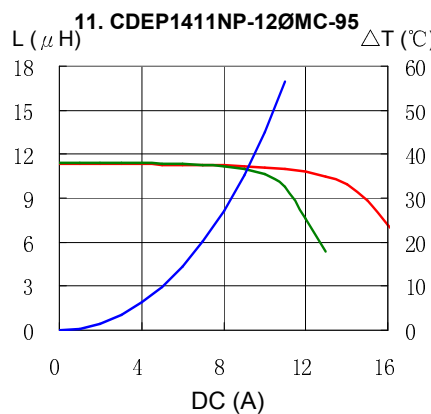
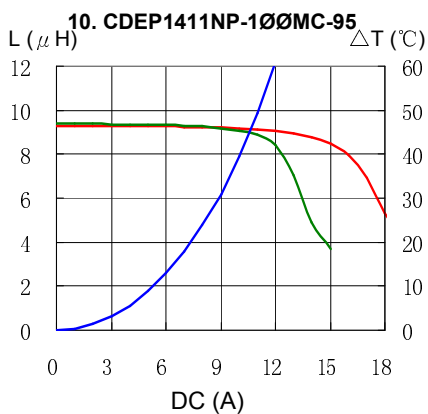
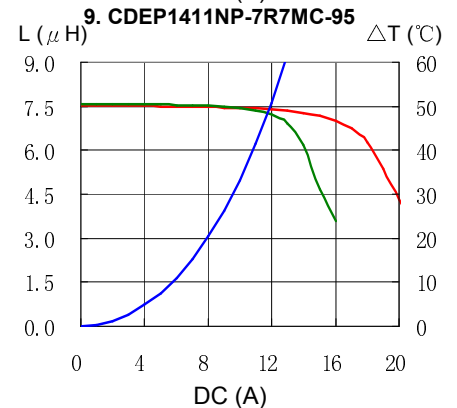
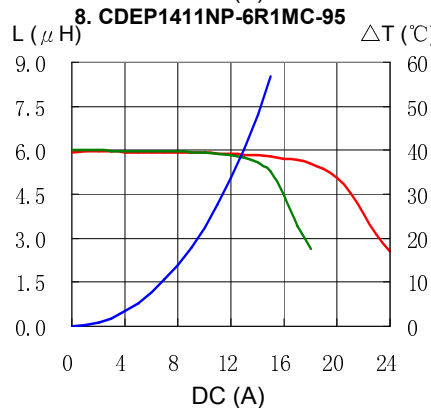
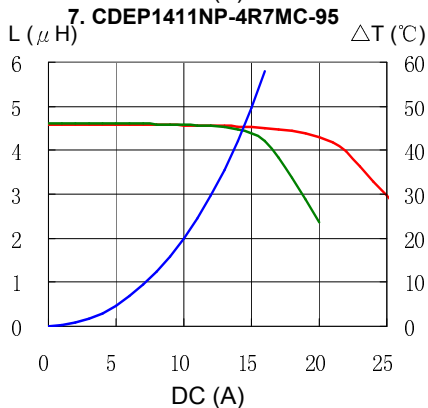
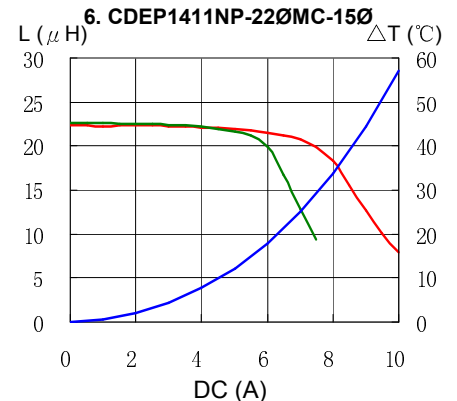
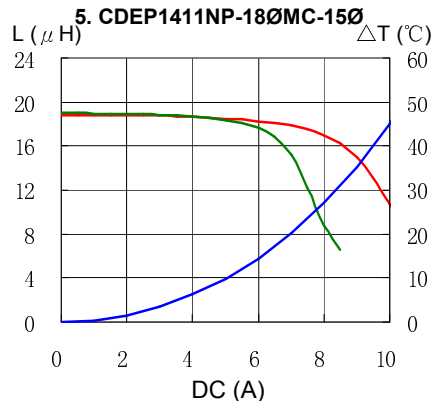
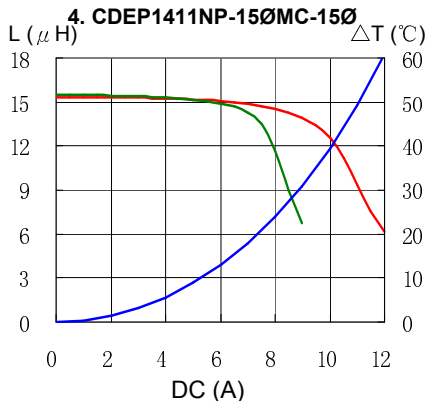
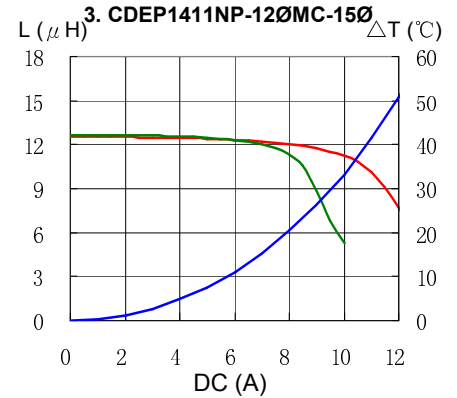
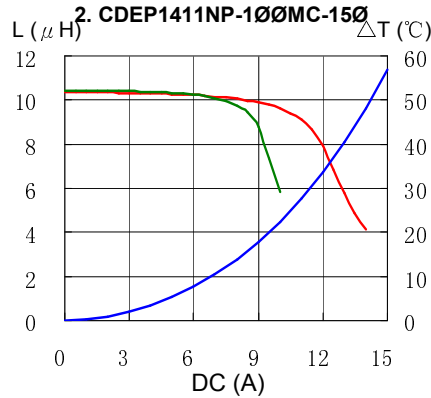
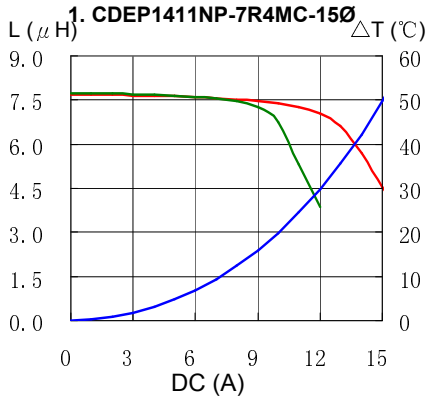
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

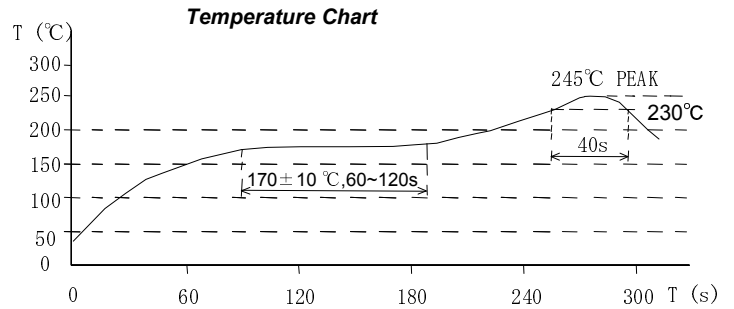
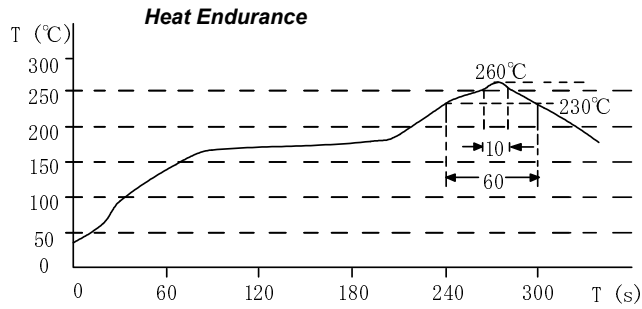
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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

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