



- Ferrite core construction.
- Magnetically shielded.
- L x W x H: 13.9 x 13.9 x 4.9 mm Max.
- Product weight: 2.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

- 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.

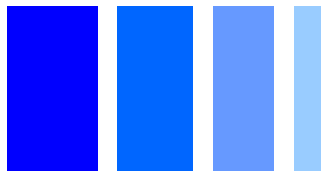
- Carrier tape and reel packaging
- 11.8" diameter reel
- 500pcs per reel

- Ideally used in Notebook PC CPU power supply.

[illegible]

Figure 1 consists of two schematic diagrams. The left diagram is a cross-sectional view of the experimental setup, showing a central gap of width 2.3. The total width of the assembly is 9.4, and the distance from the left edge to the start of the gap is 15.0. The total height of the assembly is 10.0, with a 4.4 offset from the bottom. The right diagram is a top-down view of a rectangular coil with terminals 1 and 2, and a region 3.

SMD Power Inductor CDEP134C



Electrical Characteristics

Electrical Characteristics- standard type

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3 ΔT=40°C
				(at 20°C)	(at 100°C)	
CDEP134CNP-0R4NC-100	0R4N	0.4 μH ±30 %	1.9(1.6)	32.0	27.0	18.5
CDEP134CNP-0R9MC-100	0R9M	0.9 μH ±20 %	2.5(2.1)	21.6	18.4	17.0
CDEP134CNP-1R6MC-100	1R6M	1.6 μH ±20 %	3.7(3.1)	16.0	13.8	15.0
CDEP134CNP-2R5MC-100	2R5M	2.5 μH ±20 %	6.6(5.5)	12.8	11.0	10.5
CDEP134CNP-3R6MC-100	3R6M	3.6 μH ±20 %	10.8(9.0)	10.9	9.1	8.0
CDEP134CNP-4R8MC-100	4R8M	4.8 μH ±20 %	12.0(10.0)	9.3	8.0	7.5
CDEP134CNP-6R4MC-100	6R4M	6.4 μH ±20 %	16.3(13.6)	8.0	6.8	7.0
CDEP134CNP-8R0MC-100	8R0M	8.0 μH ±20 %	18.4(15.3)	7.2	6.1	6.5

Electrical Characteristics- high power type

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3 ΔT=40°C
				(at 20°C)	(at 100°C)	
CDEP134CNP-0R3NC-75	0R3NH	0.3 μH ±30 %	1.9(1.6)	35.0	32.0	18.5
CDEP134CNP-0R6NC-75	0R6NH	0.66 μH ±30 %	2.5(2.1)	29.6	24.0	17.0
CDEP134CNP-1R2MC-75	1R2MH	1.2 μH ±20 %	3.7(3.1)	21.0	17.6	15.0
CDEP134CNP-1R8MC-75	1R8MH	1.8 μH ±20 %	6.6(5.5)	17.6	14.4	10.5
CDEP134CNP-2R7MC-75	2R7MH	2.7 μH ±20 %	10.8(9.0)	14.7	12.0	8.0
CDEP134CNP-3R6MC-75	3R6MH	3.6 μH ±20 %	12.0(10.0)	12.5	10.2	7.5
CDEP134CNP-4R8MC-75	4R8MH	4.8 μH ±20 %	16.3(13.6)	11.0	9.0	7.0
CDEP134CNP-6R0MC-75	6R0MH	6.0 μH ±20 %	18.4(15.3)	9.6	8.0	6.5

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% (while the inductance tolerance is ±30%) or 75% (while the inductance tolerance is ±20%) of its nominal.

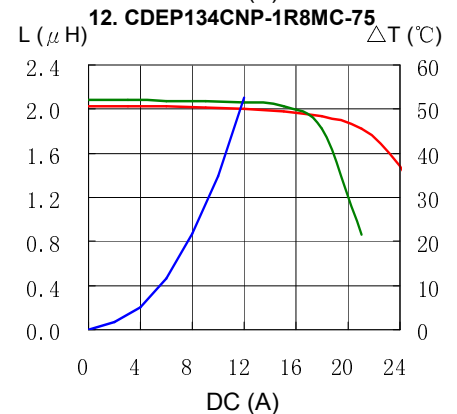
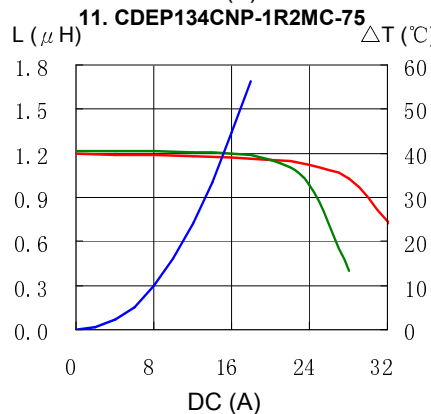
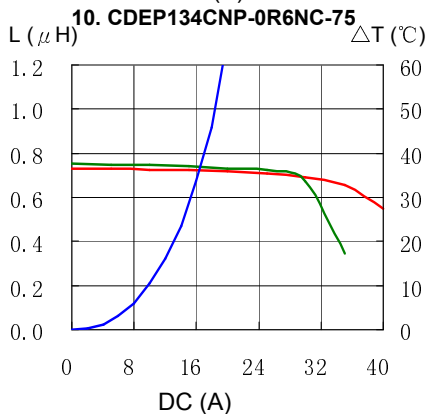
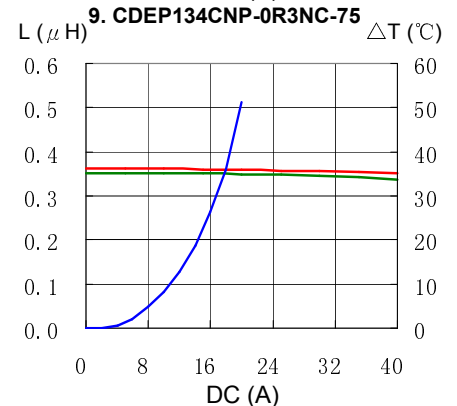
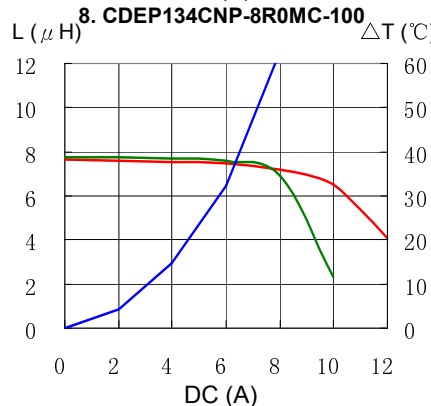
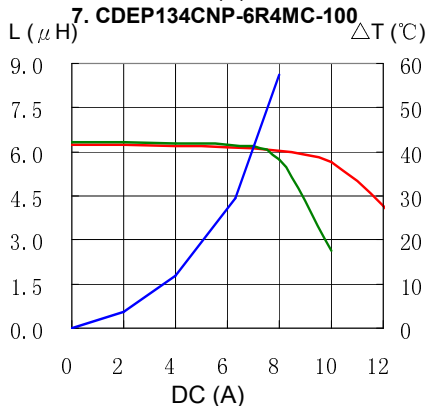
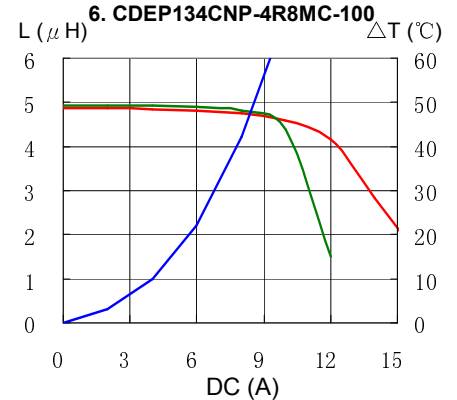
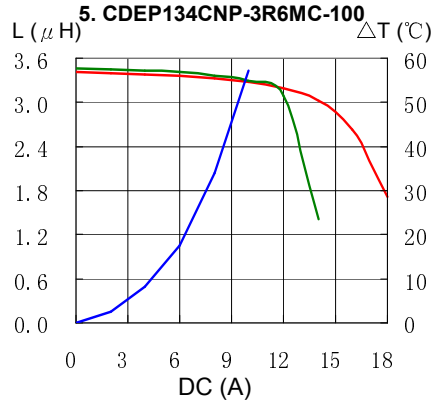
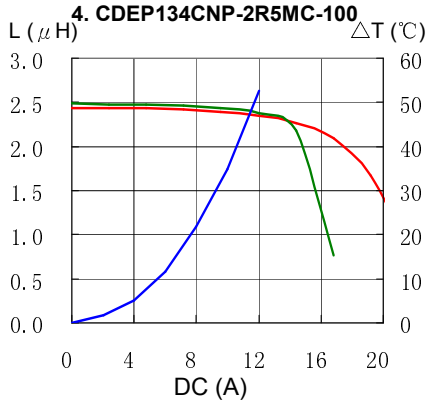
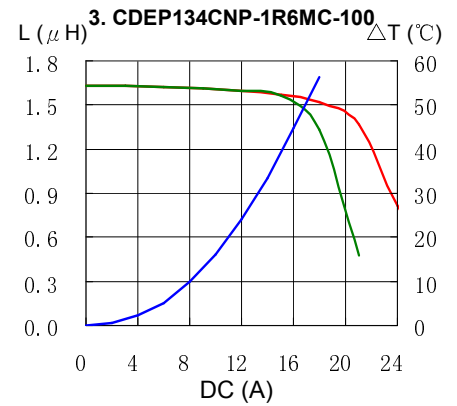
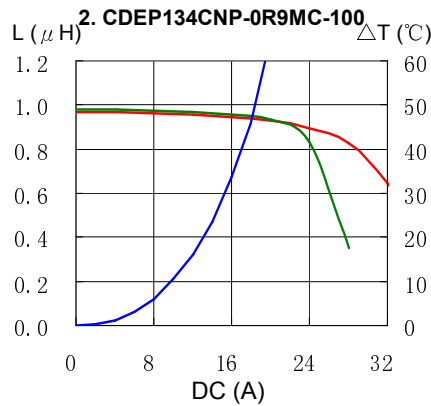
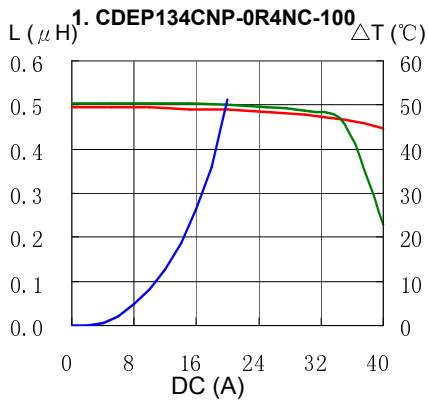
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

SMD Power Inductor CDEP134C



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

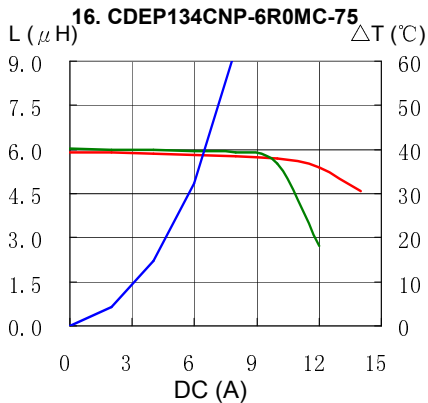
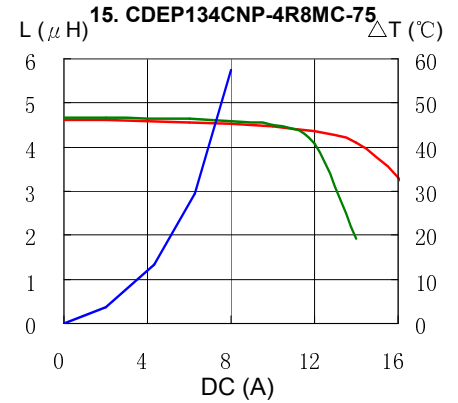
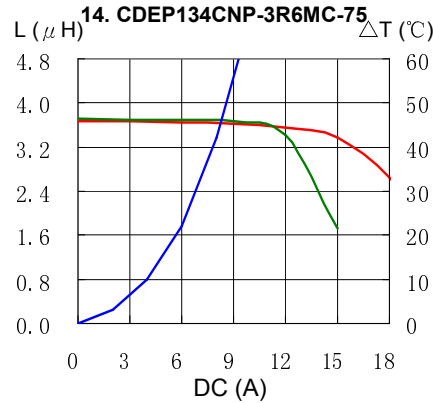
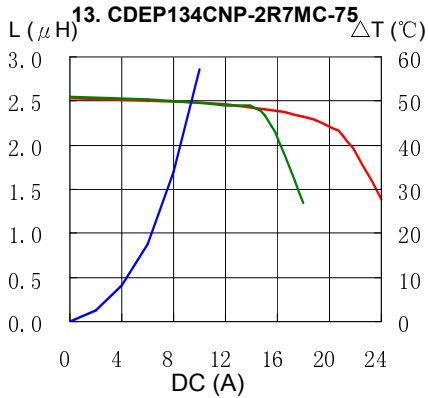


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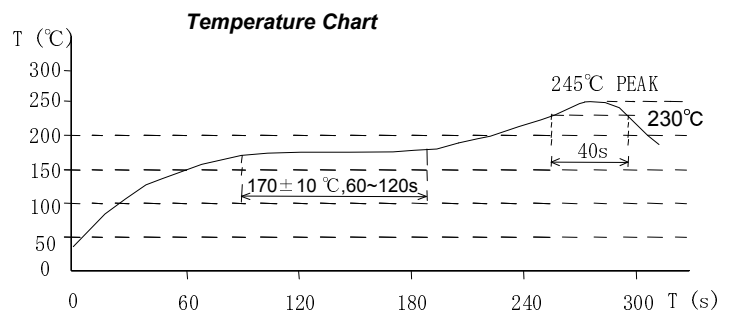
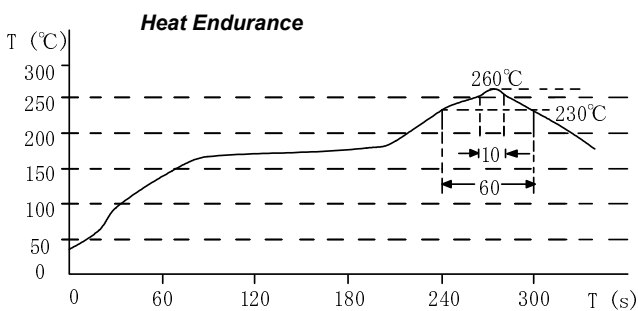


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



Solder Reflow Condition



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