



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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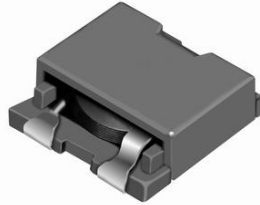
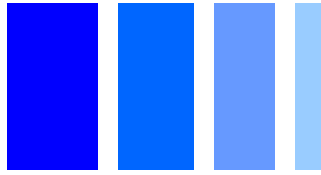
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SMD Power Inductor CDEP134



Description

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

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.

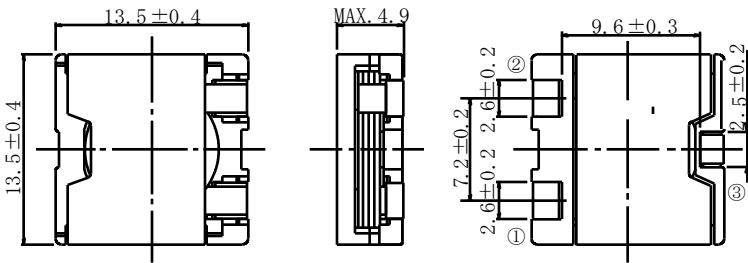
Packaging

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

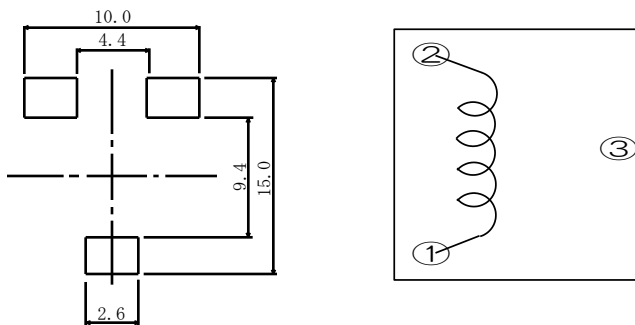
Applications

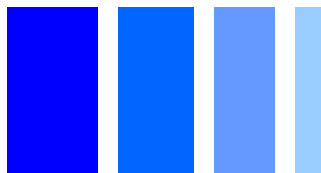
- Ideally used in Notebook PC CPU power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]





Electrical Characteristics

Electrical Characteristics - 1

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)	(at100°C)	
CDEP134NP-0R4NC	0R4N	0.4μH±30%	1.9(1.6)	32.0	27.0	18.5
CDEP134NP-0R9MC	0R9M	0.9μH±20%	2.5(2.1)	21.6	18.4	17.0
CDEP134NP-1R6MC	1R6M	1.6μH±20%	3.7(3.1)	16.0	13.8	15.0
CDEP134NP-2R5MC	2R5M	2.5μH±20%	6.6(5.5)	12.8	11.0	10.5
CDEP134NP-3R6MC	3R6M	3.6μH±20%	10.8(9.0)	10.9	9.1	8.0
CDEP134NP-4R8MC	4R8M	4.8μH±20%	12.0(10.0)	9.3	8.0	7.5
CDEP134NP-6R4MC	6R4M	6.4μH±20%	16.3(13.6)	8.0	6.8	7.0
CDEP134NP-8R0MC	8R0M	8.0μH±20%	18.4(15.3)	7.2	6.1	6.5

Electrical Characteristics - 2

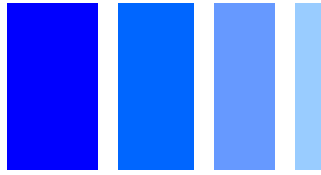
PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20°C)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3 ΔT=40°C
				(at 20°C)	(at100°C)	
CDEP134NP-0R3NC-H	0R3NH	0.3μH±30%	1.9(1.6)	35.0	32.0	18.5
CDEP134NP-0R6NC-H	0R6NH	0.66μH±30%	2.5(2.1)	29.0	24.0	17.0
CDEP134NP-1R2MC-H	1R2MH	1.2μH±20%	3.7(3.1)	21.0	17.6	15.0
CDEP134NP-1R8MC-H	1R8MH	1.8μH±20%	6.6(5.5)	17.6	14.4	10.5
CDEP134NP-2R7MC-H	2R7MH	2.7μH±20%	10.8(9.0)	14.7	12.0	8.0
CDEP134NP-3R6MC-H	3R6MH	3.6μH±20%	12.0(10.0)	12.5	10.2	7.5
CDEP134NP-4R8MC-H	4R8MH	4.8μH±20%	16.3(13.6)	11.0	9.0	7.0
CDEP134NP-6R0MC-H	6R0MH	6.0μH±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 it's nominal.

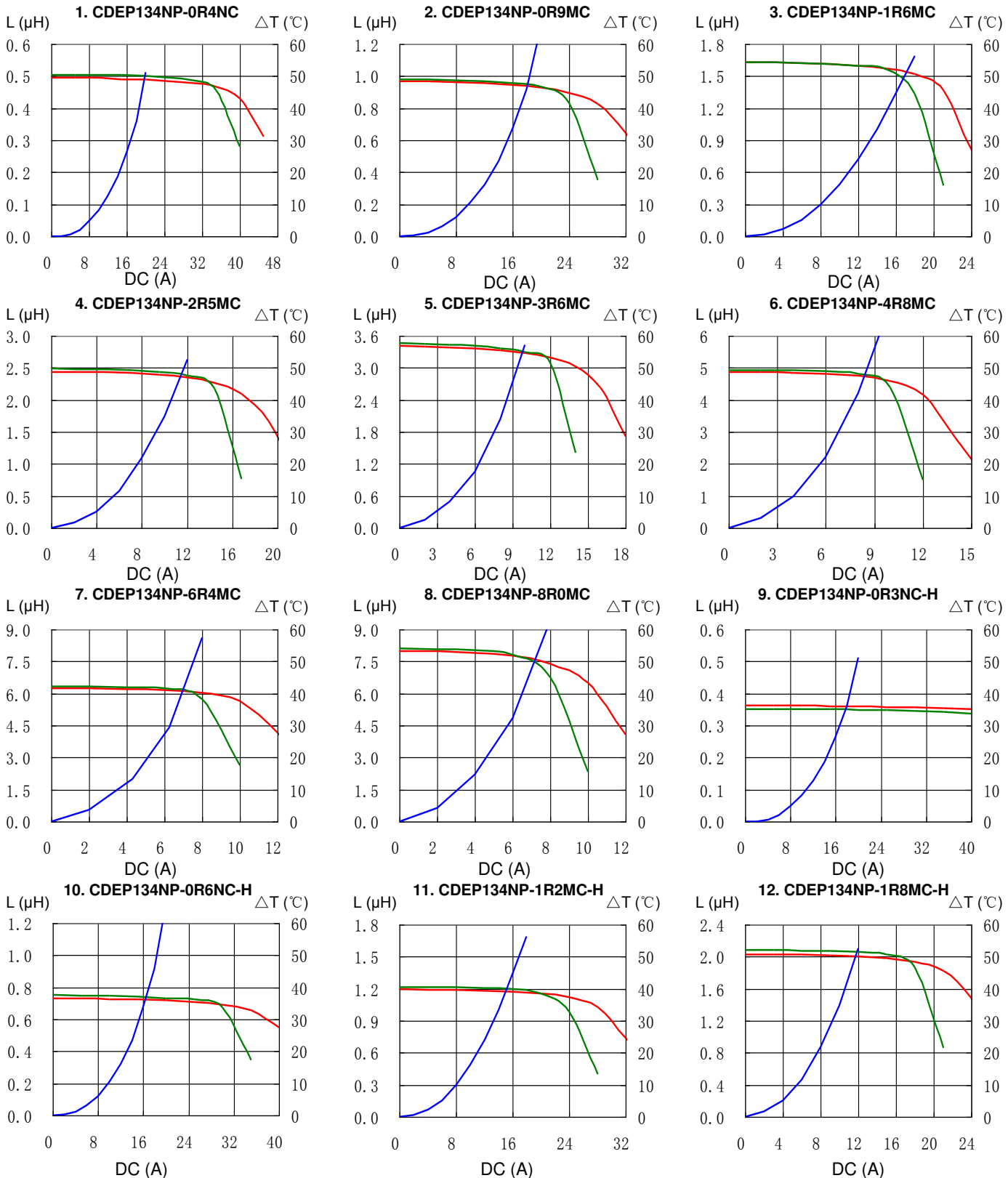
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

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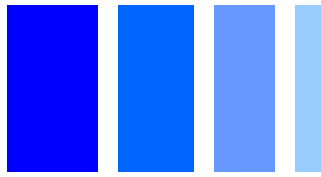


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

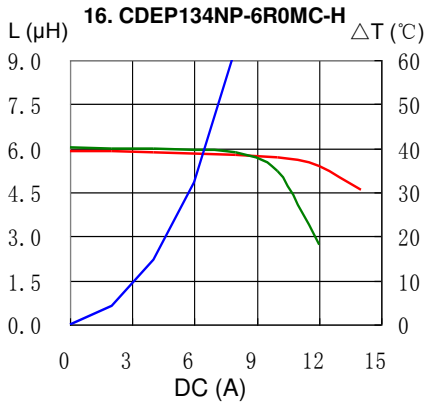
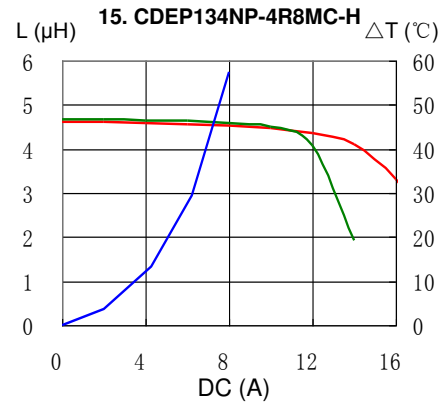
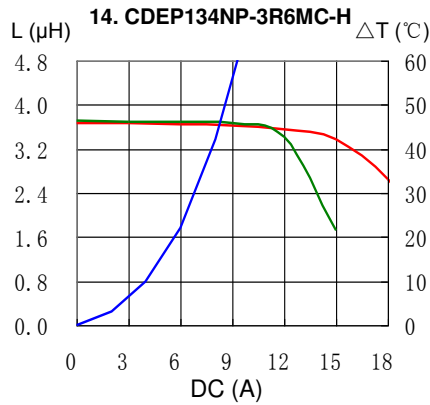
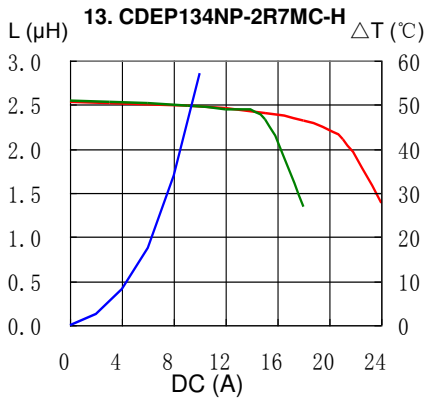


SMD Power Inductor CDEP134



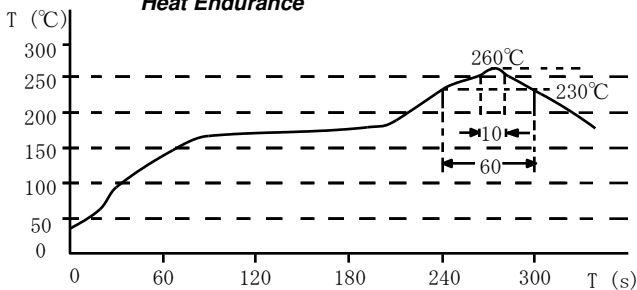
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

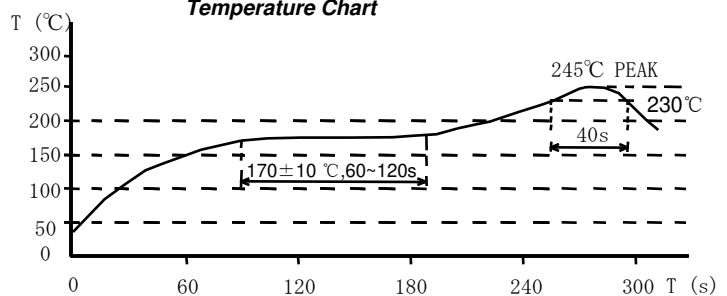


Solder Reflow Condition

Heat Endurance



Temperature Chart



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