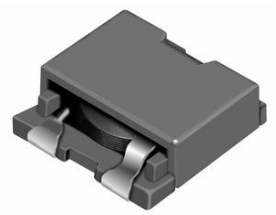
WINSOURCE ELECTRONICS

THE DATASHEET OF

CDEP134NP-1R2MC-H

SMD Power Inductor
CDEP134

RoHS



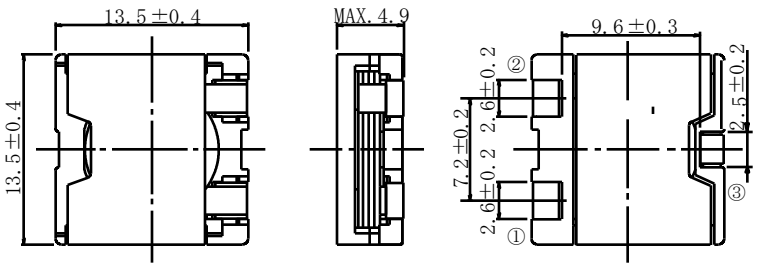
Description
- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 13.9 × 13.9 × 4.9 mm Max.
- Product weight: 2.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

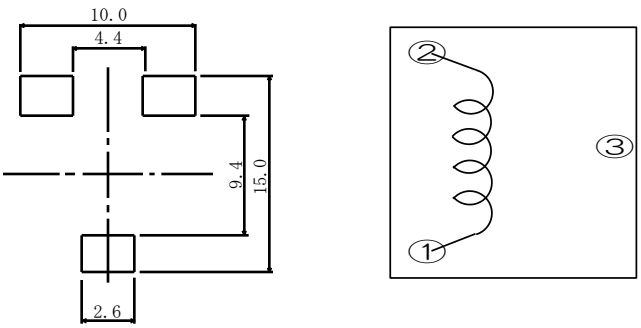
Packaging
- Carrier tape and reel packaging
- 11.8"diameter reel
- 500pcs per reel

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℃)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3 △T=40℃
				(at 20℃)	(at100℃)	
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

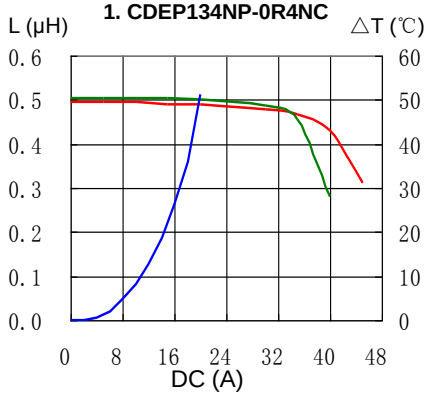
PART NO.	STAMP	INDUCTANCE [WITHIN]※1	D.C.R. (mΩ) [MAX.] (Typ.) (at 20℃)	SATURATION CURRENT (A) ※2		TEMPERATURE RISE CURRENT (A) ※3 ΔT=40℃
				(at 20℃)	(at100℃)	
CDEP134NP-0R3NC-H	0R3NH	0.3μH±30%	1.9(1.6)	35.0	32.0	18.5
CDEP134NP-0R6NC-H	0R6NH	0.66μH±30%	2.5(2.1)	29.0	24.0	17.0
CDEP134NP-1R2MC-H	1R2MH	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 △t＝40℃(Ta＝20℃).

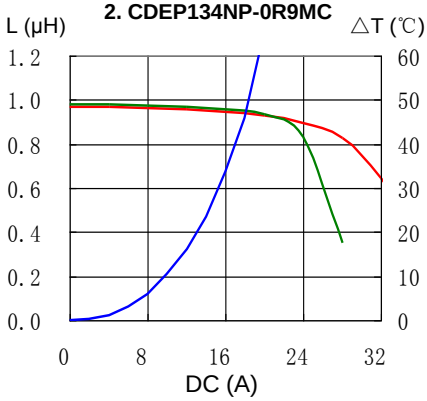
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

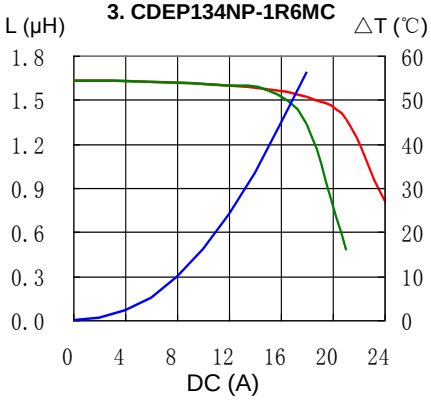
1. CDEP134NP-0R4NC



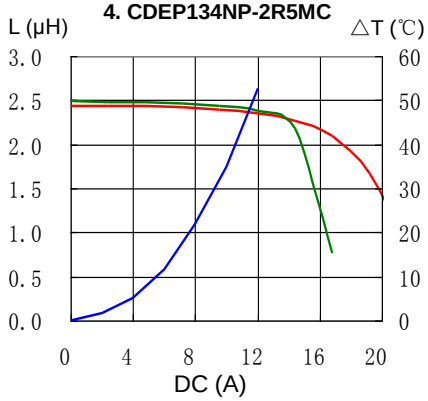
2. CDEP134NP-0R9MC



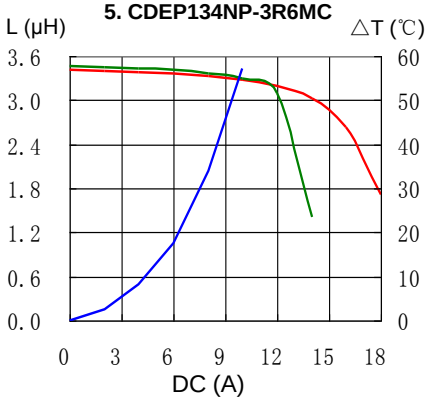
3. CDEP134NP-1R6MC



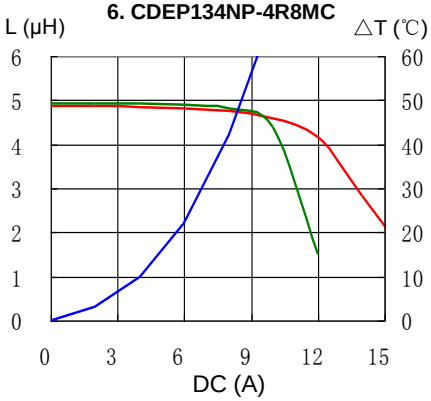
4. CDEP134NP-2R5MC



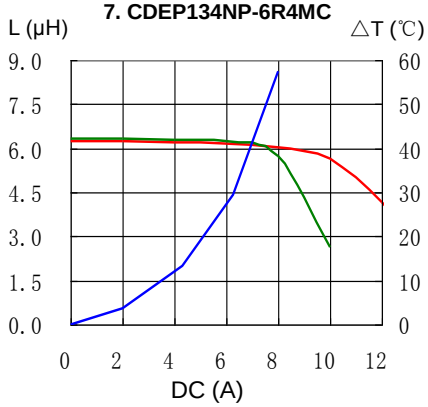
5. CDEP134NP-3R6MC



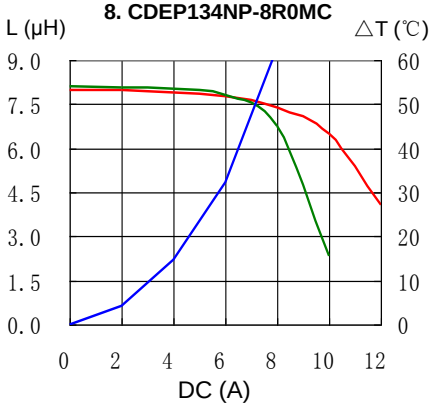
6. CDEP134NP-4R8MC



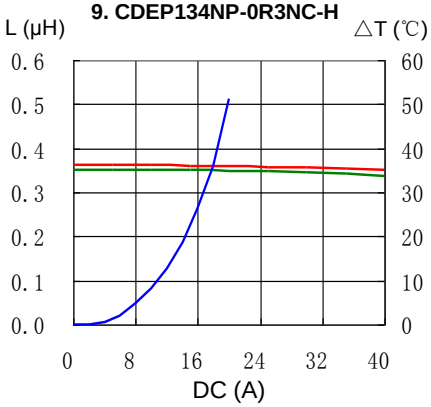
7. CDEP134NP-6R4MC



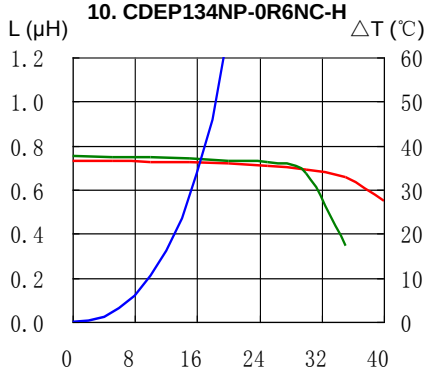
8. CDEP134NP-8R0MC



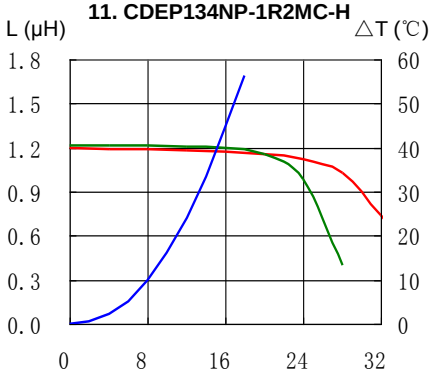
9. CDEP134NP-0R3NC-H



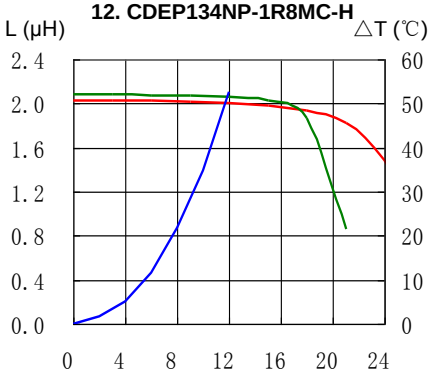
10. CDEP134NP-0R6NC-H



11. CDEP134NP-1R2MC-H



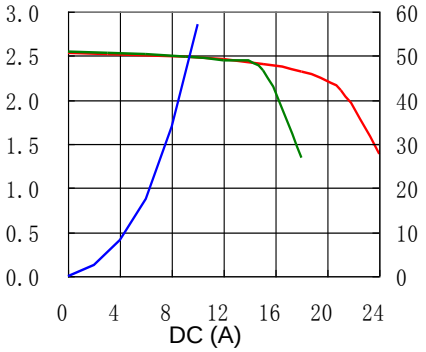
12. CDEP134NP-1R8MC-H



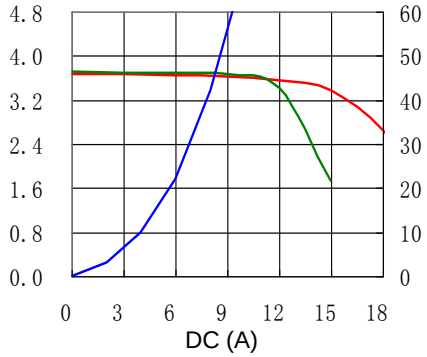
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

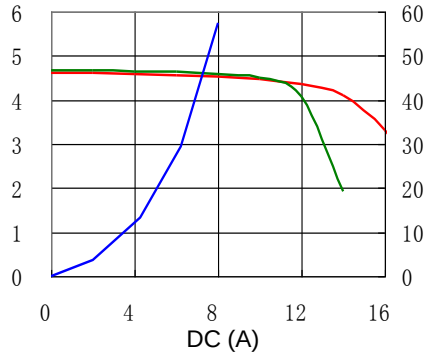
13. CDEP134NP-2R7MC-H



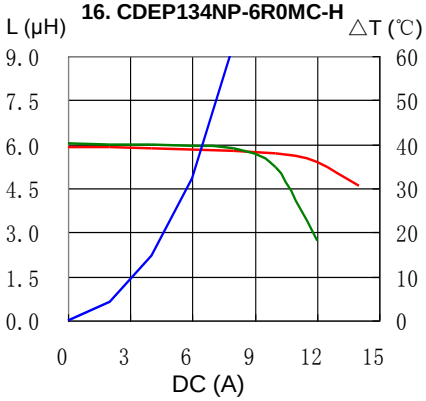
14. CDEP134NP-3R6MC-H



15. CDEP134NP-4R8MC-H

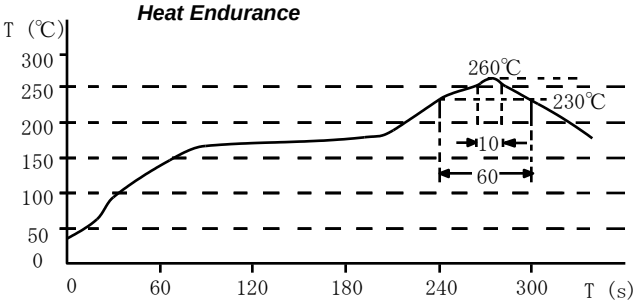


16. CDEP134NP-6R0MC-H

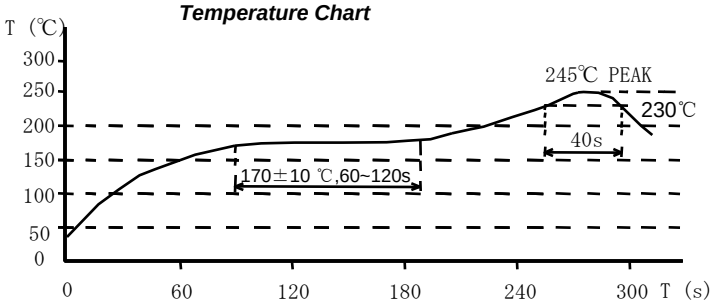


Solder Reflow Condition

Heat Endurance



Temperature Chart



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