PIN Power Inductor
RCP1317

RoHS

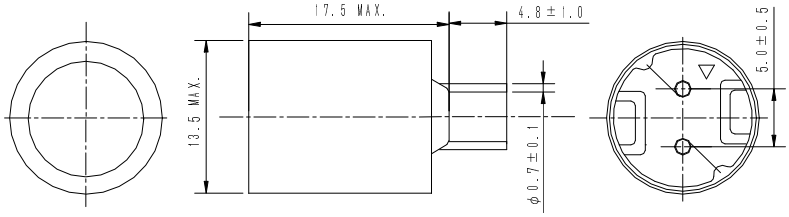
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 13.5 × 13.5 × 17.5mm Max.
- Product weight: 8.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data
- Operating temperature range: -40℃～+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃

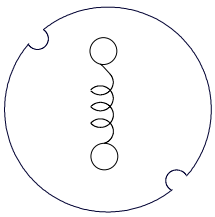
Packaging
- Box packaging.

Applications
- Ideally Used in Printers, LCD TV, Copy Machine, Mainboard of the compounding machines, etc as DC-DC Converter inductors.

Dimension - [mm]



Schematics - [mm]



Revised: 7-Jan-14

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Electrical Characteristics

Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20℃)	Saturation Current ※2		Temperature rise current (A) ※3
				(at 20℃)	(at 100℃)	
RCP1317NP-330M	330	33 μH±20%	58m (46m)	4.80	4.40	3.60
RCP1317NP-470M	470	47 μH±20%	69m (55m)	4.30	3.80	3.30
RCP1317NP-680M	680	68 μH±20%	101m (81m)	3.30	3.00	2.60
RCP1317NP-820M	820	82 μH±20%	110m (88m)	3.10	2.70	2.50
RCP1317NP-101M	101	100 μH±20%	125m (100m)	2.80	2.50	2.30
RCP1317NP-121L	121	120 μH±15%	139m (116m)	2.60	2.30	2.20
RCP1317NP-151L	151	150 μH±15%	195m (156m)	2.40	2.10	1.90
RCP1317NP-181L	181	180 μH±15%	213m (171m)	2.20	1.80	1.80
RCP1317NP-221L	221	220 μH±15%	278m (223m)	1.90	1.70	1.60
RCP1317NP-271L	271	270 μH±15%	0.33 (0.26)	1.70	1.60	1.55
RCP1317NP-331L	331	330 μH±15%	0.36 (0.29)	1.60	1.40	1.50
RCP1317NP-391L	391	390 μH±15%	0.44 (0.35)	1.45	1.28	1.30
RCP1317NP-471L	471	470 μH±15%	0.53 (0.42)	1.35	1.17	1.15
RCP1317NP-561L	561	560 μH±15%	0.59 (0.47)	1.25	1.05	1.10
RCP1317NP-681L	681	680 μH±15%	0.78 (0.62)	1.12	0.95	1.00
RCP1317NP-821L	821	820 μH±15%	0.95 (0.76)	1.02	0.85	0.85
RCP1317NP-102L	102	1.0mH±15%	1.18 (0.94)	0.90	0.70	0.82
RCP1317NP-122L	122	1.2mH±15%	1.28 (1.07)	0.80	0.65	0.74
RCP1317NP-152L	152	1.5mH±15%	1.40 (1.16)	0.72	0.60	0.72
RCP1317NP-182L	182	1.8mH±15%	2.00 (1.70)	0.68	0.56	0.58
RCP1317NP-222L	222	2.2mH±15%	2.28 (1.90)	0.62	0.52	0.52
RCP1317NP-272L	272	2.7mH±15%	3.07 (2.56)	0.58	0.50	0.48
RCP1317NP-332L	332	3.3mH±15%	3.31 (2.76)	0.51	0.45	0.45
RCP1317NP-392L	392	3.9mH±15%	4.52 (3.77)	0.47	0.42	0.42
RCP1317NP-472L	472	4.7mH±15%	5.02 (4.18)	0.43	0.37	0.37

※1 Inductance Measuring condition: at 1kHz.
※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of it's nominal.
※3 The temperature rise: The value of DC current when the temperature rise is △T＝40℃ (Ta＝20℃).

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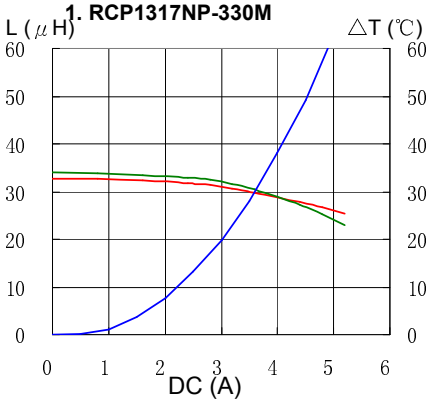
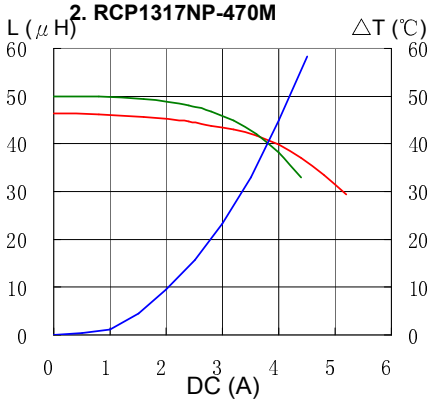
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

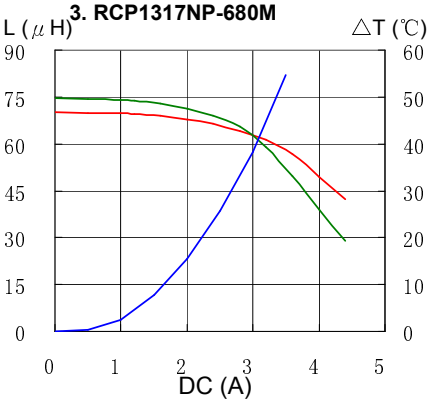
1. RCP1317NP-330M



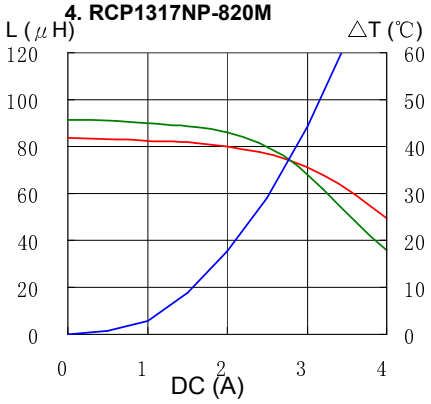
2. RCP1317NP-470M



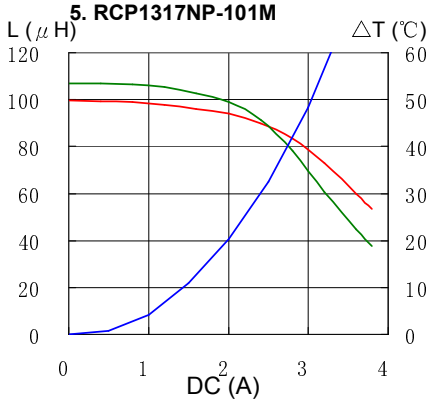
3. RCP1317NP-680M



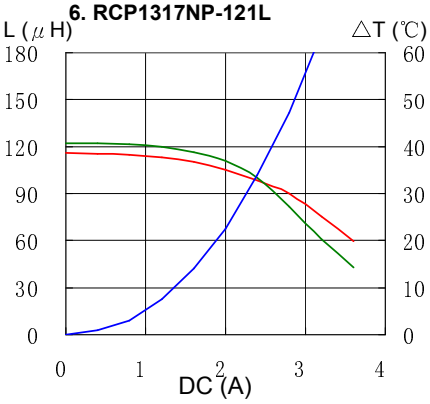
4. RCP1317NP-820M



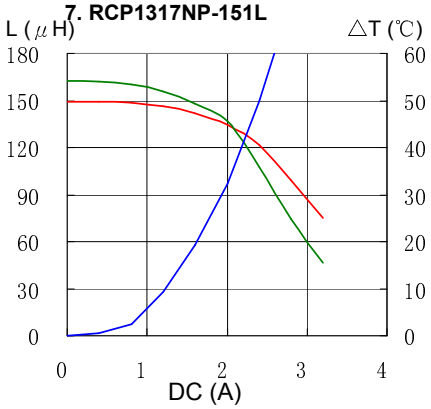
5. RCP1317NP-101M



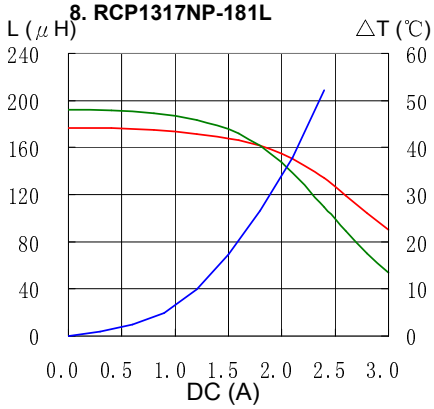
6. RCP1317NP-121L



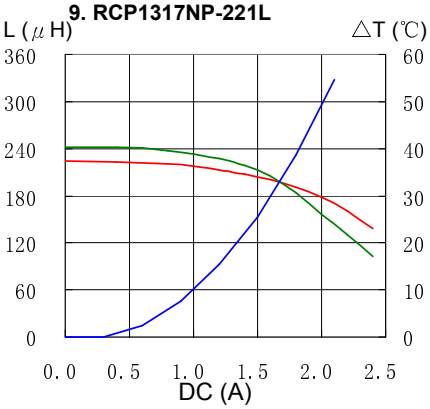
7. RCP1317NP-151L



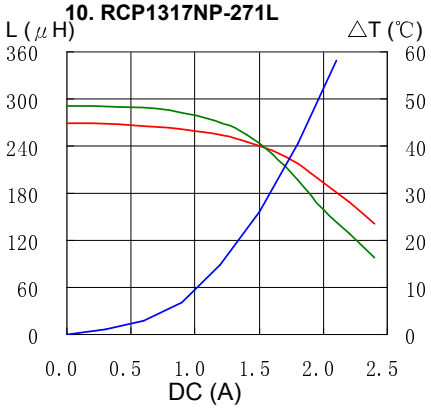
8. RCP1317NP-181L



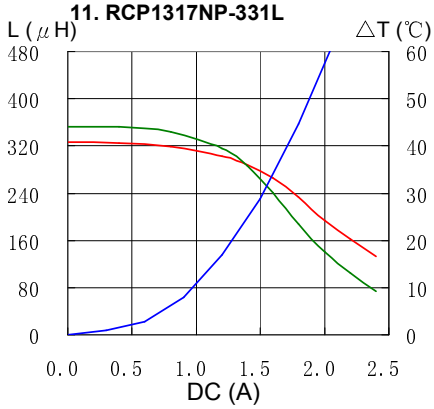
9. RCP1317NP-221L



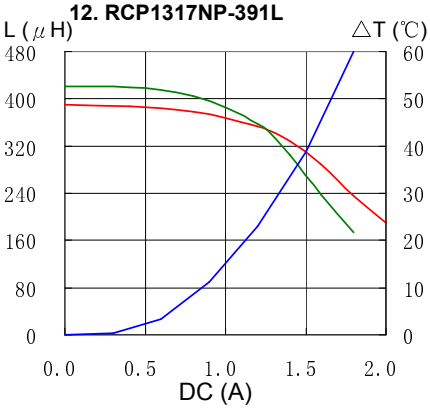
10. RCP1317NP-271L



11. RCP1317NP-331L



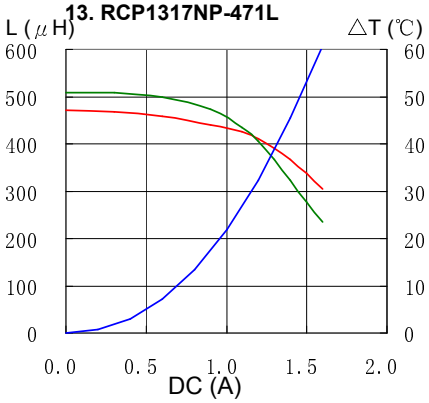
12. RCP1317NP-391L



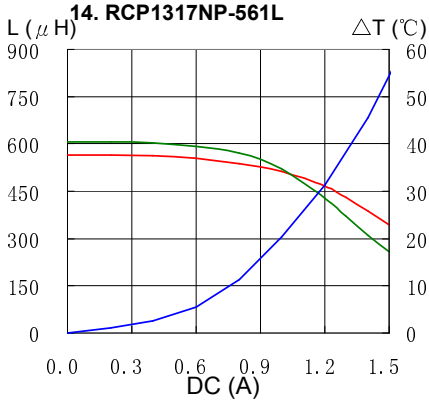
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

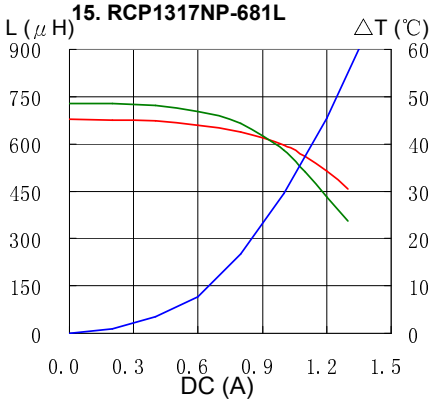
13. RCP1317NP-471L



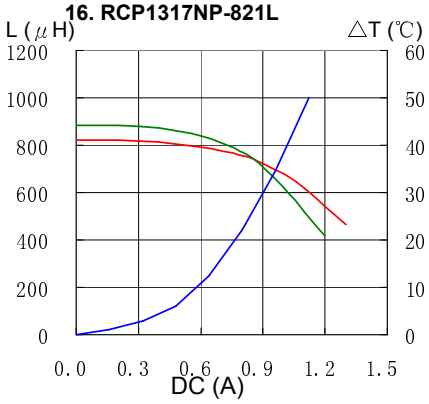
14. RCP1317NP-561L



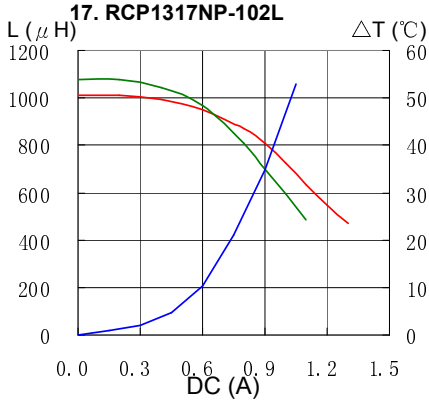
15. RCP1317NP-681L



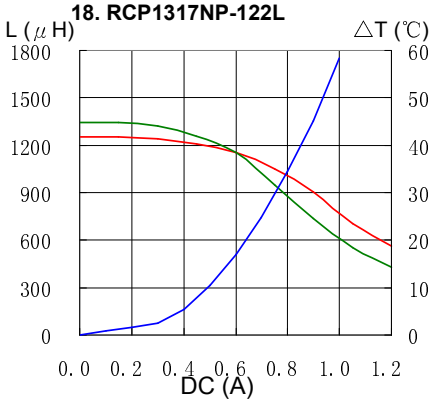
16. RCP1317NP-821L



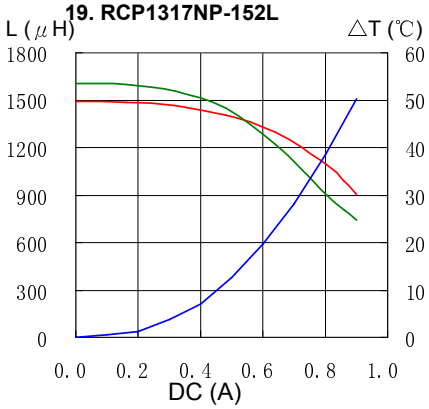
17. RCP1317NP-102L



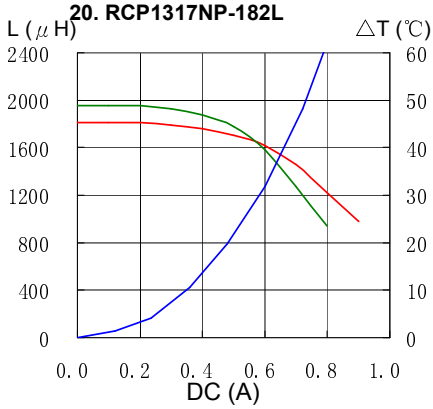
18. RCP1317NP-122L



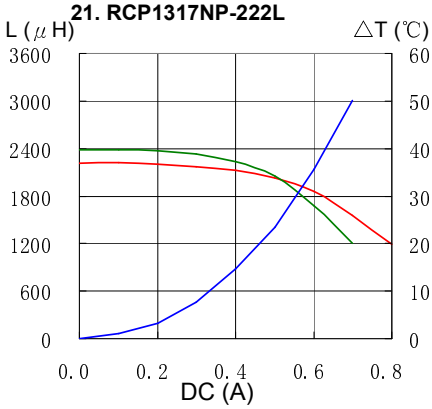
19. RCP1317NP-152L



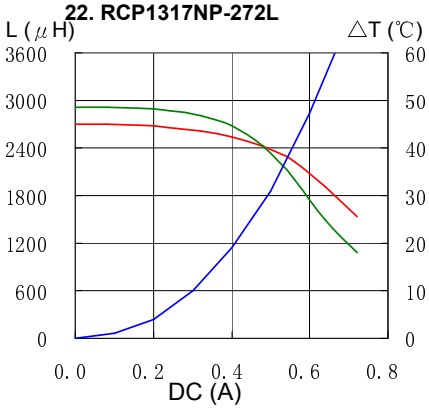
20. RCP1317NP-182L



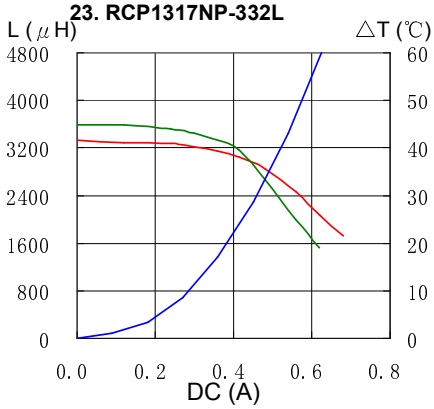
21. RCP1317NP-222L



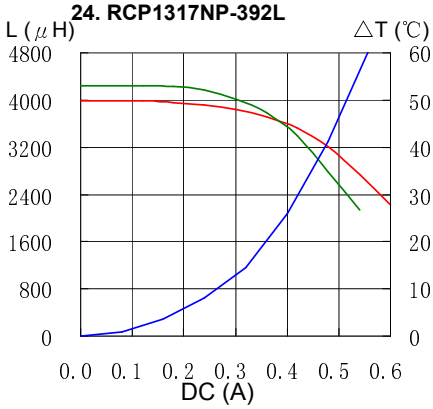
22. RCP1317NP-272L



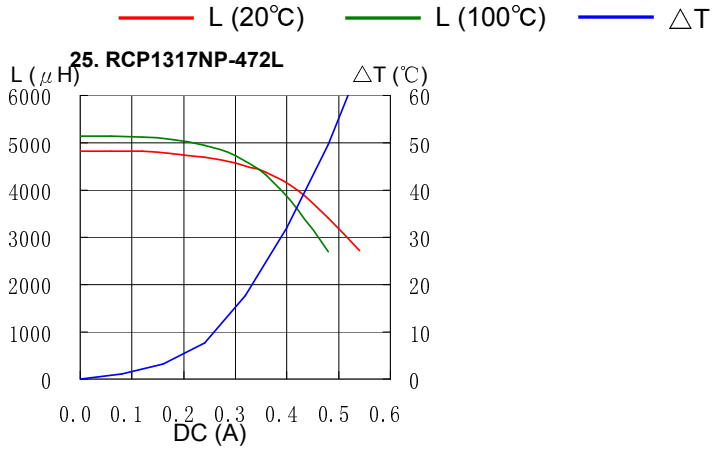
23. RCP1317NP-332L



24. RCP1317NP-392L



Saturation Current & Temperature Rise Graph



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