

Pin type Power Inductor

RCP1317



Description

- Ferrite drum core construction.
- Magnetically shielded.
- LxWxH: 13.5x13.5x17.5mm Max.
- Product weight: 8.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
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Applications

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

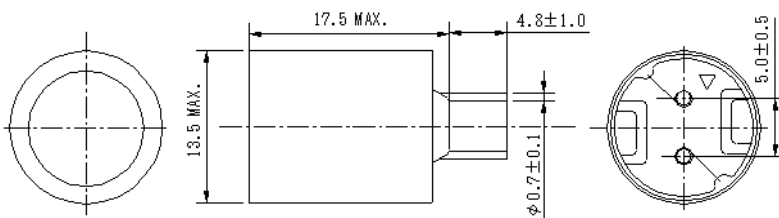
Environmental Data

- Operating temperature range: -40°C~+100°C
(including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C

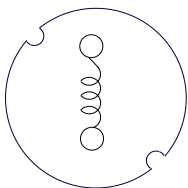
Packaging

- Box packaging (100pcs/box).

Dimensions - [mm]



Schematics- [mm]



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Electrical Characteristics

Part No.	Inductance [Within] (μ H)※1	D.C.R(Ω) Max.(Typ.) at 20°C	Saturation Current(A)※2 Max.(Typ.)	Temperature rise current (A) (Typ.) ※3
RCP1317NP-330M	33 \pm 20%	58m (46m)	4.80 (5.70)	(4.00)
RCP1317NP-470M	47 \pm 20%	69m (55m)	4.30 (5.10)	(3.70)
RCP1317NP-680M	68 \pm 20%	101m (81m)	3.30 (4.20)	(3.00)
RCP1317NP-820M	82 \pm 20%	110m(88m)	3.10 (3.80)	(2.80)
RCP1317NP-101M	100 \pm 20%	125m (100m)	2.80 (3.45)	(2.70)
RCP1317NP-121L	120 \pm 15%	139m (116m)	2.60 (3.20)	(2.50)
RCP1317NP-151L	150 \pm 15%	195m (156m)	2.40 (2.80)	(2.20)
RCP1317NP-181L	180 \pm 15%	213m (171m)	2.20 (2.60)	(2.10)
RCP1317NP-221L	220 \pm 15%	278m (223m)	1.90 (2.30)	(1.80)
RCP1317NP-271L	270 \pm 15%	330m (260m)	1.70 (2.10)	(1.70)
RCP1317NP-331L	330 \pm 15%	360m (290m)	1.60 (1.90)	(1.60)
RCP1317NP-391L	390 \pm 15%	440m (350m)	1.45 (1.70)	(1.50)
RCP1317NP-471L	470 \pm 15%	530m (420m)	1.35 (1.50)	(1.30)
RCP1317NP-561L	560 \pm 15%	590m (470m)	1.25 (1.40)	(1.25)
RCP1317NP-681L	680 \pm 15%	780m (620m)	1.12 (1.30)	(1.10)
RCP1317NP-821L	820 \pm 15%	950m(760m)	1.02 (1.20)	(1.00)
RCP1317NP-102L	1000 \pm 15%	1.18 (940m)	900m (1.05)	(940m)
RCP1317NP-122L	1200 \pm 15%	1.28 (1.07)	800m (950m)	(840m)
RCP1317NP-152L	1500 \pm 15%	1.40 (1.16)	720m (850m)	(810m)
RCP1317NP-182L	1800 \pm 15%	2.00 (1.70)	680m (800m)	(660m)
RCP1317NP-222L	2200 \pm 15%	2.28 (1.90)	620m (730m)	(620m)
RCP1317NP-272L	2700 \pm 15%	3.07 (2.56)	580m (660m)	(550m)
RCP1317NP-332L	3300 \pm 15%	3.31 (2.74)	510m(600m)	(520m)
RCP1317NP-392L	3900 \pm 15%	4.52 (3.77)	470m (550m)	(470m)
RCP1317NP-472L	4700 \pm 15%	5.02 (4.18)	430m (500m)	(430m)

※1 Measuring frequency Inductance at 1kHz

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 35% lower than its initial value.

※3 Temperature rise current: The actual current when temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$)

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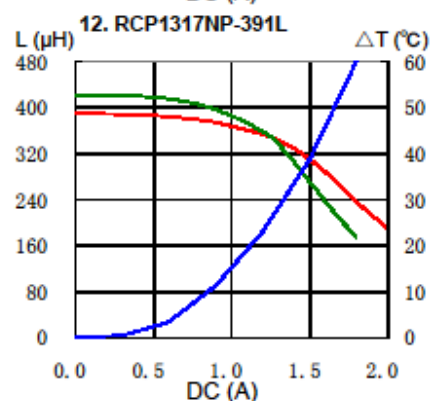
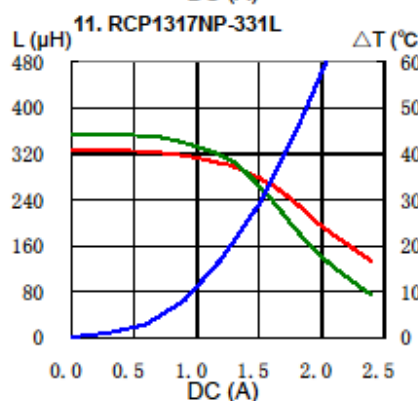
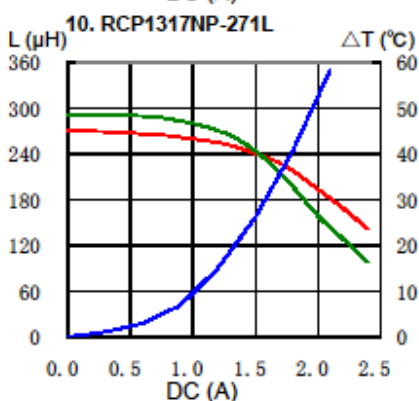
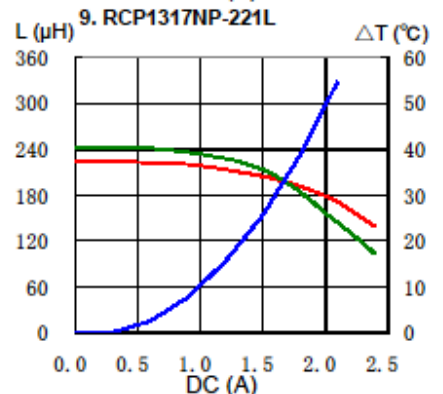
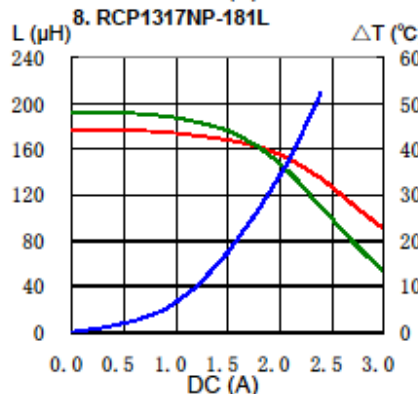
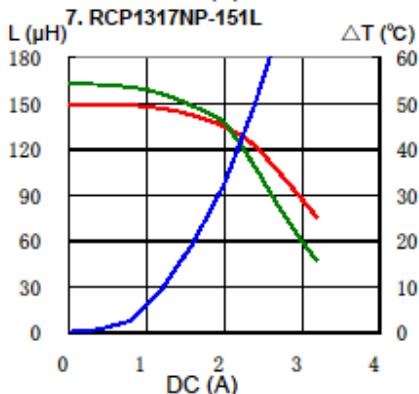
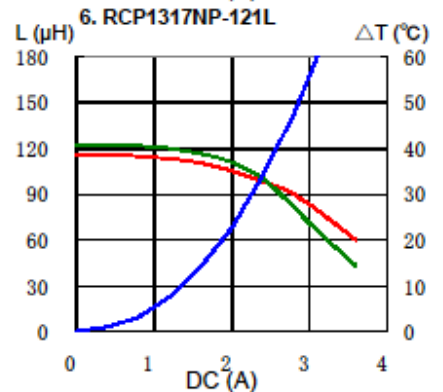
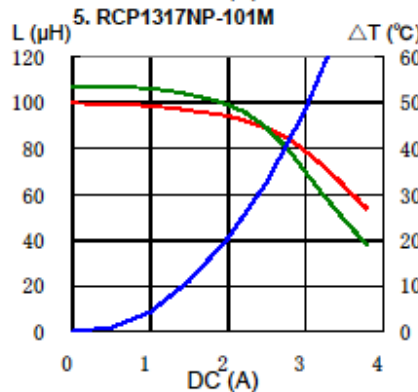
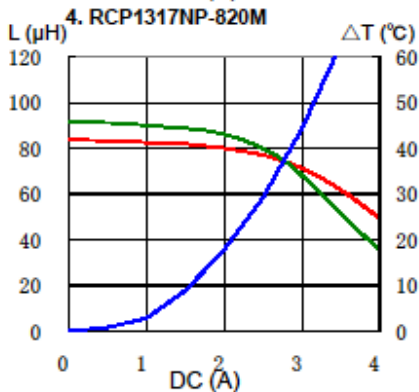
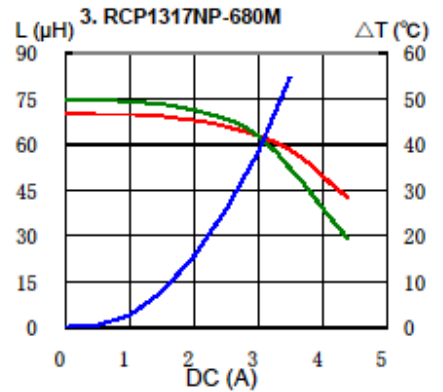
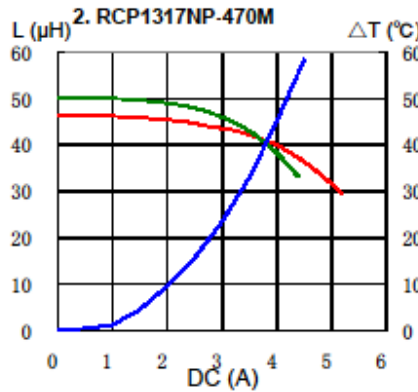
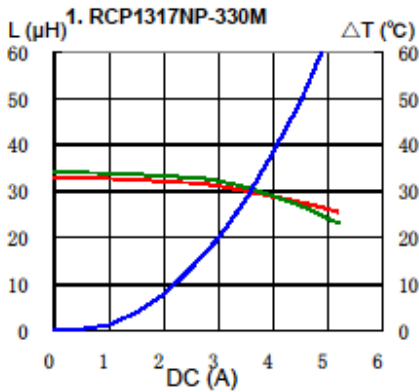
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Saturation Current & Temperature Rise Graph

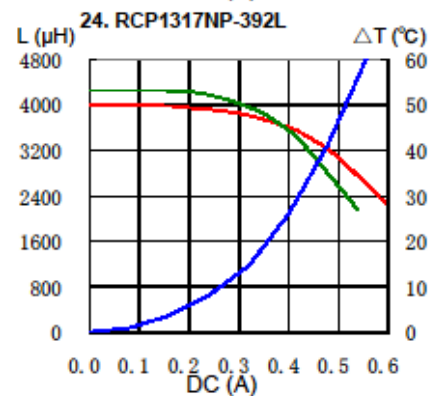
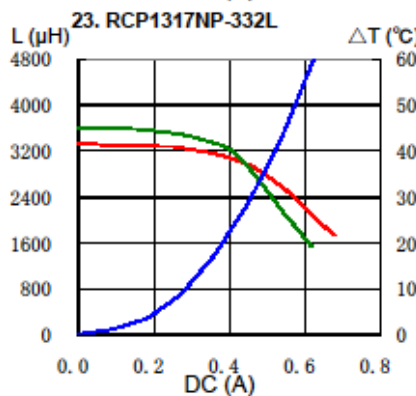
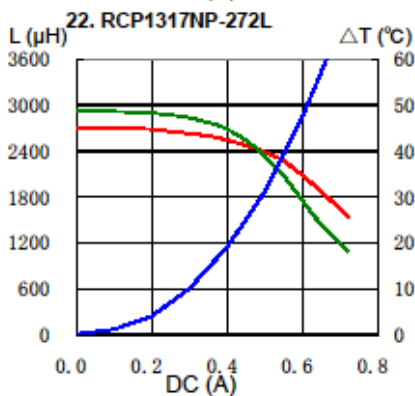
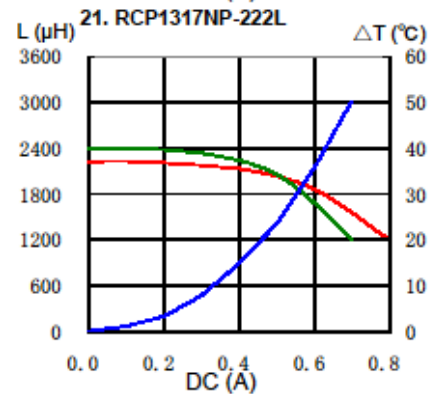
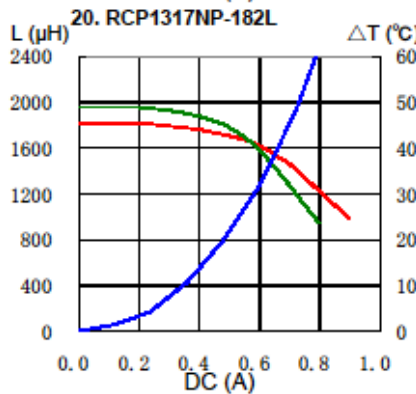
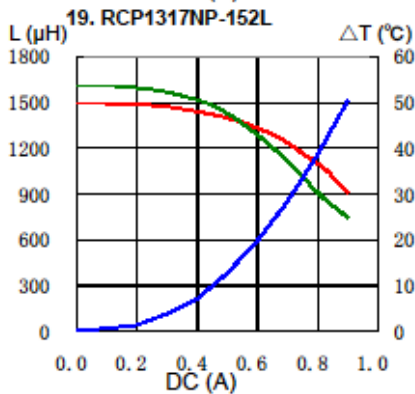
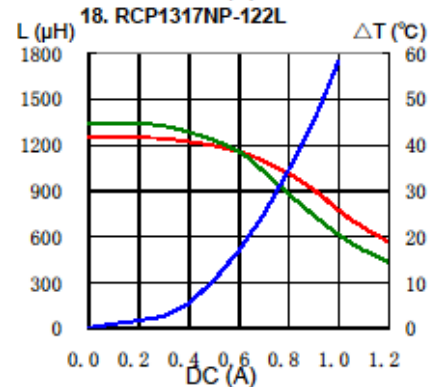
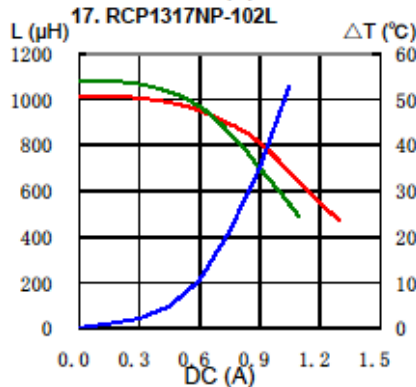
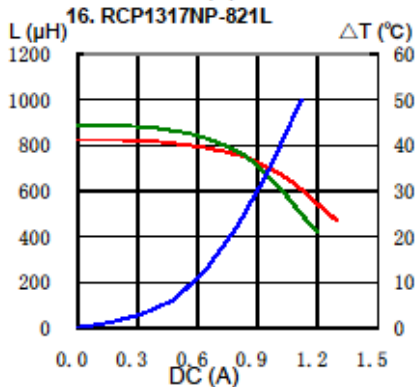
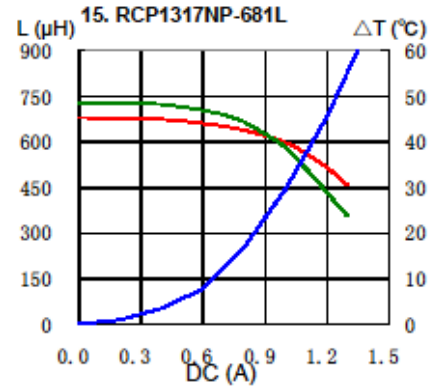
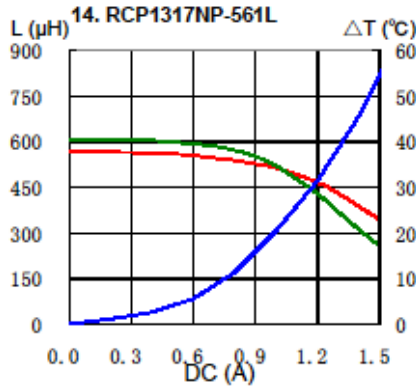
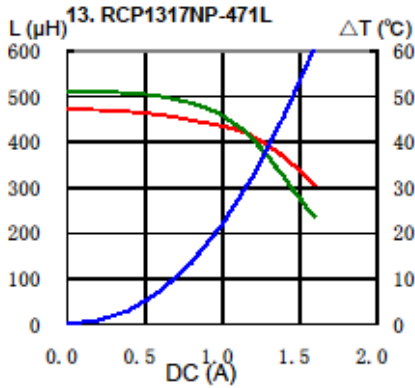
— L (20°C) — L (100°C) — ΔT



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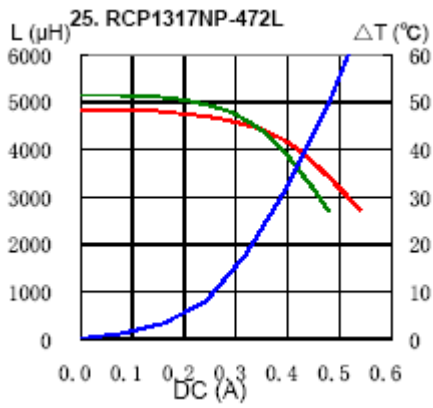
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