

# PIN Power Inductor RP1315B



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 13.0 × 13.0 × 15.0mm Max.
- Product weight: 6.1g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C

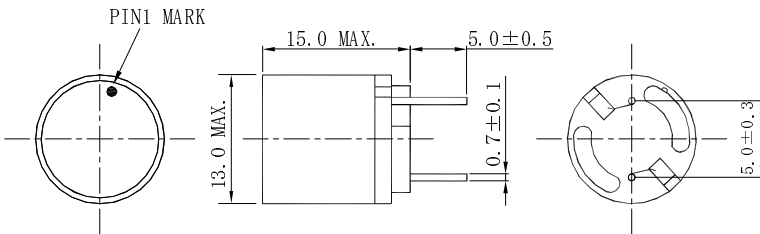
## Packaging

- Box packaging.

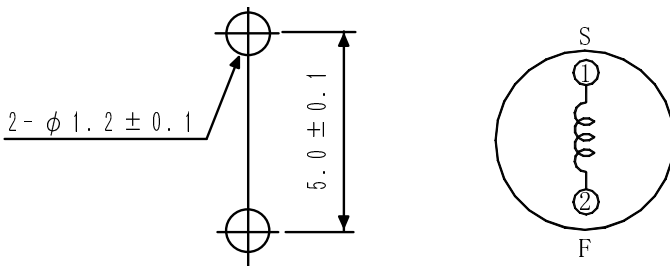
## Applications

- Ideally used in Printers, LCD TV, DVD, Copy Machine ,etc as DC-DC Converter inductors.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



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## Electrical Characteristics

Part No.	Stamp	Inductance [Within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20°C)	Saturation current (A) ※2		Temperature rise Current (A) ※3
				(at 20°C)	(at 105°C)	
RP1315BNP-100M	100M	10 μH ± 20%	18.5(14.8)	8.10	6.20	6.20
RP1315BNP-120M	120M	12 μH ± 20%	19.3(15.5)	7.68	6.00	5.85
RP1315BNP-150M	150M	15 μH ± 20%	32.4(25.9)	6.52	5.12	5.31
RP1315BNP-180M	180M	18 μH ± 20%	34.4(27.5)	6.00	4.72	5.00
RP1315BNP-220M	220M	22 μH ± 20%	47.8(38.3)	5.36	4.36	4.00
RP1315BNP-270M	270M	27 μH ± 20%	60.8(48.7)	4.88	3.79	3.40
RP1315BNP-330M	330M	33 μH ± 20%	73.6(58.9)	4.20	3.20	2.80
RP1315BNP-390M	390M	39 μH ± 20%	80.1(64.1)	3.90	3.10	2.70
RP1315BNP-470M	470M	47 μH ± 20%	101.8(81.4)	3.76	3.00	2.36
RP1315BNP-560M	560M	56 μH ± 20%	115.3(92.2)	3.26	2.61	2.30
RP1315BNP-680M	680M	68 μH ± 20%	165.0(132.1)	3.00	2.40	1.90
RP1315BNP-820M	820M	82 μH ± 20%	182.5(146.0)	2.73	2.21	1.81
RP1315BNP-101M	101M	100 μH ± 20%	264.0(211.2)	2.46	1.95	1.43
RP1315BNP-121M	121M	120 μH ± 20%	293.4(234.7)	2.16	1.80	1.38
RP1315BNP-151M	151M	150 μH ± 20%	333.0(266.5)	1.97	1.57	1.27
RP1315BNP-181M	181M	180 μH ± 20%	364.4(291.5)	1.82	1.46	1.25
RP1315BNP-221M	221M	220 μH ± 20%	413.0(330.5)	1.65	1.33	1.15
RP1315BNP-331M	331M	330 μH ± 20%	580.0(465.0)	1.36	1.06	0.98
RP1315BNP-471M	471M	470 μH ± 20%	802.0(641.5)	1.13	0.90	0.82
RP1315BNP-561M	561M	560 μH ± 20%	890.0(712.0)	1.04	0.83	0.80
RP1315BNP-681M	681M	680 μH ± 20%	1139.0(911)	0.95	0.77	0.68
RP1315BNP-821M	821M	820 μH ± 20%	1300.0(1040)	0.87	0.70	0.66
RP1315BNP-102M	102M	1000 μH ± 20%	1975.0(1580)	0.74	0.61	0.51

※1. Inductance measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

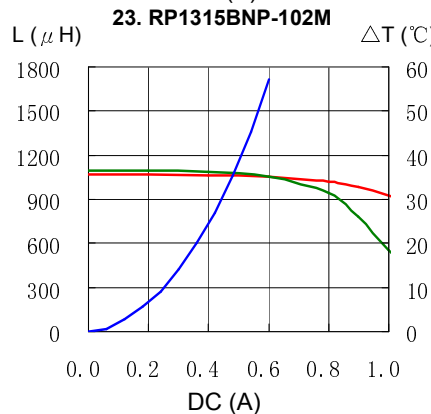
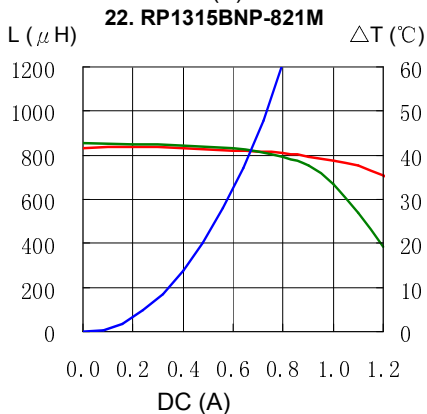
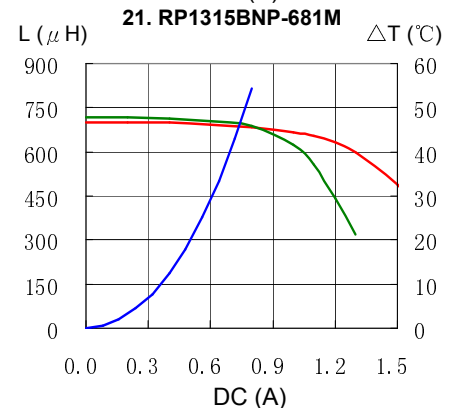
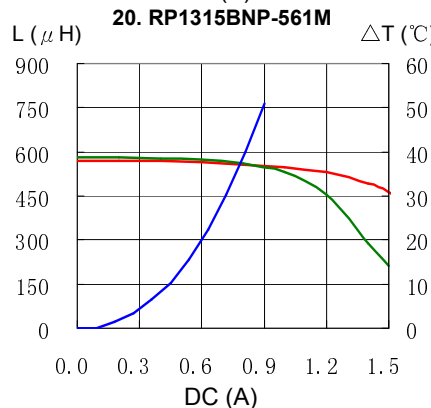
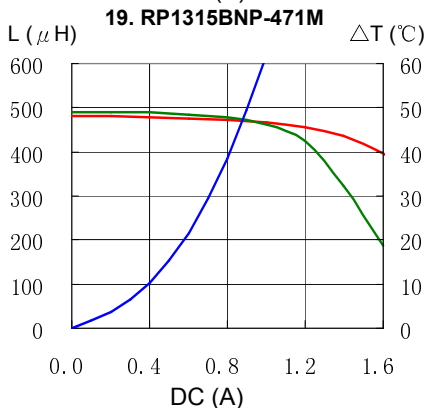
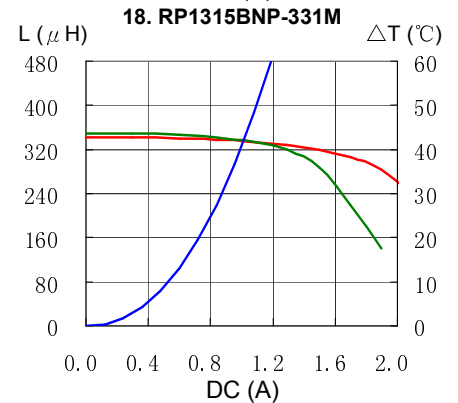
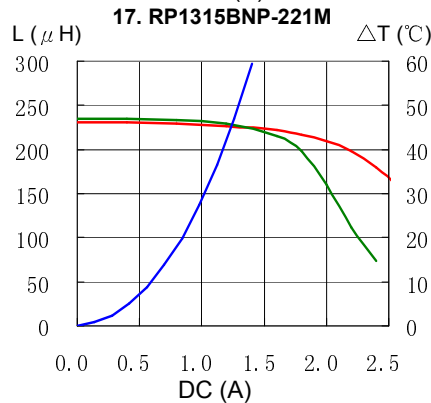
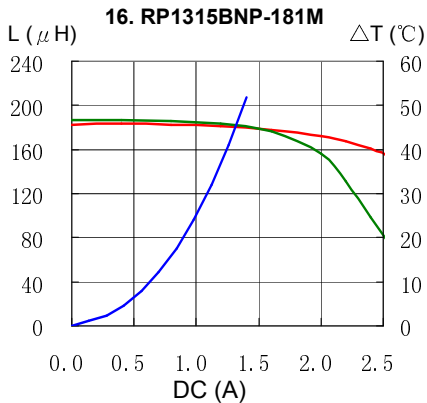
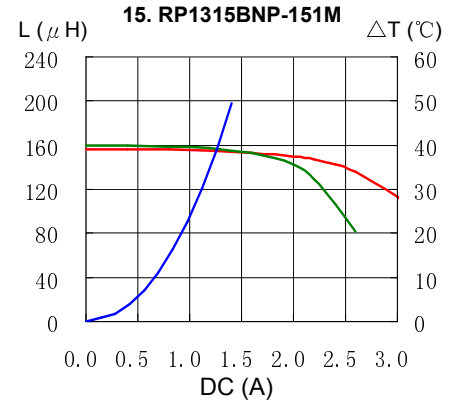
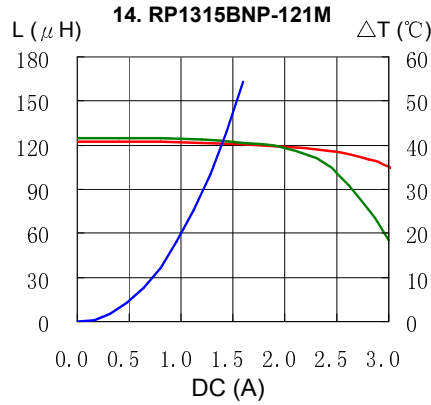
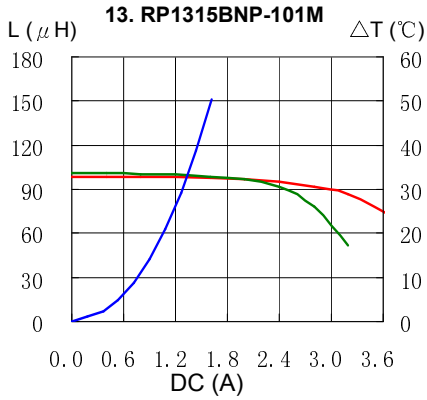


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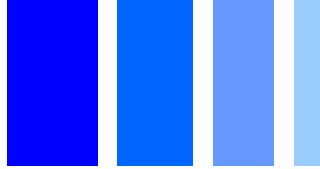


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



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RP1315B**



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