



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.

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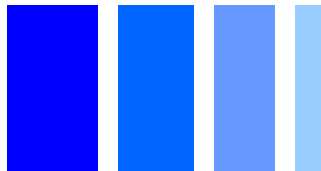
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PIN Power Inductor RCR1010



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.5 × 10.5mm Max.
- Product weight: 2.9 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +85°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +85°C

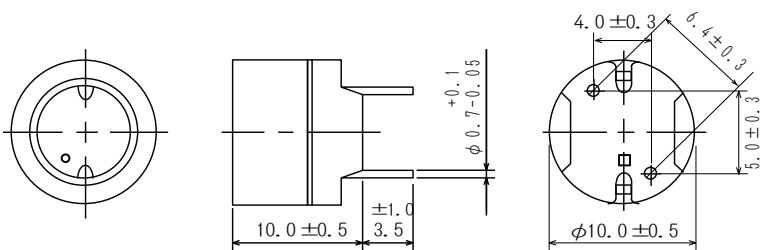
Packaging

- Box packaging.

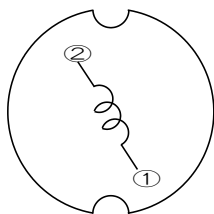
Applications

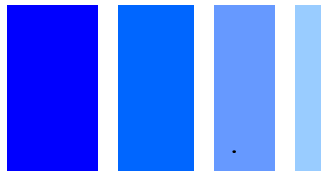
- Ideally used in Printers, LCD TV, DVD, Copy Machine, Mainboard of the compounding machines etc. as DC-DC Converter inductors.

Dimension - [mm]



Schematics - [mm]





Electrical Characteristics

Part Name	Stamp	Inductance (μH) [Within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise current (A) ※3
				(at 20°C)	(at 105°C)	
RCR1010NP-100M	100M	10 $\mu\text{H} \pm 20\%$	25.1(20.1)	4.8	3.8	4.3
RCR1010NP-120M	120M	12 $\mu\text{H} \pm 20\%$	26.6(21.3)	4.5	3.5	4.2
RCR1010NP-150M	150M	15 $\mu\text{H} \pm 20\%$	31.3(25.1)	4.0	3.2	4.1
RCR1010NP-180M	180M	18 $\mu\text{H} \pm 20\%$	33.8(27.1)	3.8	2.9	4.0
RCR1010NP-220M	220M	22 $\mu\text{H} \pm 20\%$	38.3(30.6)	3.4	2.6	3.8
RCR1010NP-270M	270M	27 $\mu\text{H} \pm 20\%$	40.9(32.7)	3.0	2.5	3.6
RCR1010NP-330M	330M	33 $\mu\text{H} \pm 20\%$	53.8(43.1)	2.7	2.2	3.2
RCR1010NP-390M	390M	39 $\mu\text{H} \pm 20\%$	73.4(58.7)	2.5	2.0	2.5
RCR1010NP-470M	470M	47 $\mu\text{H} \pm 20\%$	102.1(81.7)	2.2	1.8	2.2
RCR1010NP-560M	560M	56 $\mu\text{H} \pm 20\%$	111.3(89.0)	2.1	1.7	2.1
RCR1010NP-680M	680M	68 $\mu\text{H} \pm 20\%$	137.5(110.0)	1.8	1.4	1.9
RCR1010NP-820M	820M	82 $\mu\text{H} \pm 20\%$	160.0(128.0)	1.7	1.3	1.8
RCR1010NP-101M	101M	100 $\mu\text{H} \pm 20\%$	175.3(140.2)	1.5	1.2	1.7
RCR1010NP-121M	121M	120 $\mu\text{H} \pm 20\%$	193.8(155.0)	1.4	1.1	1.6
RCR1010NP-151M	151M	150 $\mu\text{H} \pm 20\%$	225.6(180.5)	1.2	1.0	1.5
RCR1010NP-181M	181M	180 $\mu\text{H} \pm 20\%$	275.3(220.2)	1.1	0.9	1.4
RCR1010NP-221M	221M	220 $\mu\text{H} \pm 20\%$	313.0(250.5)	1.0	0.8	1.3
RCR1010NP-271M	271M	270 $\mu\text{H} \pm 20\%$	450.6(360.5)	0.95	0.74	1.0
RCR1010NP-331M	331M	330 $\mu\text{H} \pm 20\%$	500.6(400.5)	0.88	0.64	0.98
RCR1010NP-391M	391M	390 $\mu\text{H} \pm 20\%$	563.0(450.5)	0.78	0.60	0.94
RCR1010NP-471M	471M	470 $\mu\text{H} \pm 20\%$	748.8(599.0)	0.72	0.58	0.80
RCR1010NP-561M	561M	560 $\mu\text{H} \pm 20\%$	848.8(682.9)	0.68	0.55	0.75
RCR1010NP-681M	681M	680 $\mu\text{H} \pm 20\%$	1202(962.0)	0.60	0.48	0.63
RCR1010NP-821M	821M	820 $\mu\text{H} \pm 20\%$	1342(1074)	0.57	0.45	0.60
RCR1010NP-102M	102M	1.0mH $\pm 20\%$	1490(1192)	0.48	0.39	0.55

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

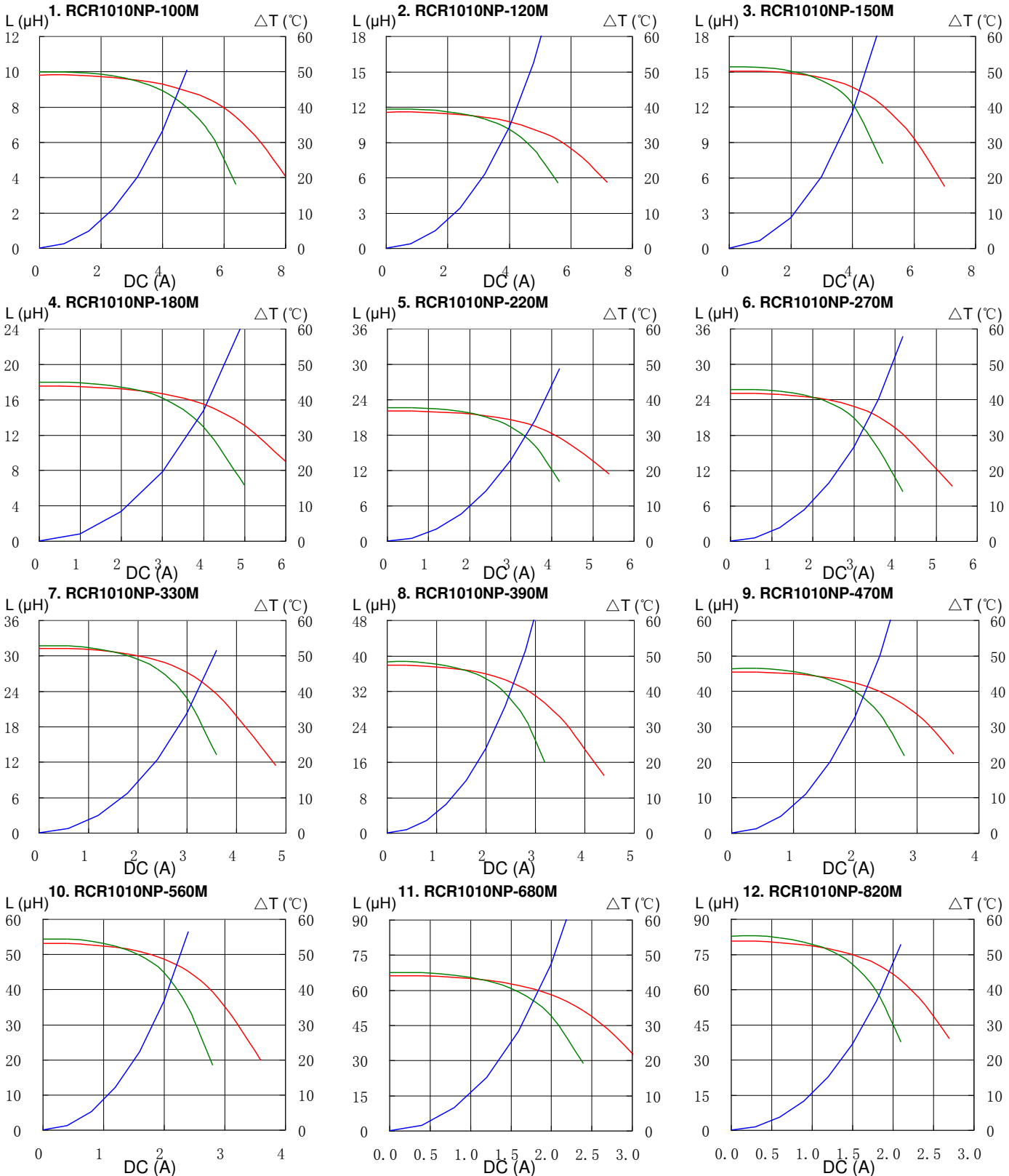
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

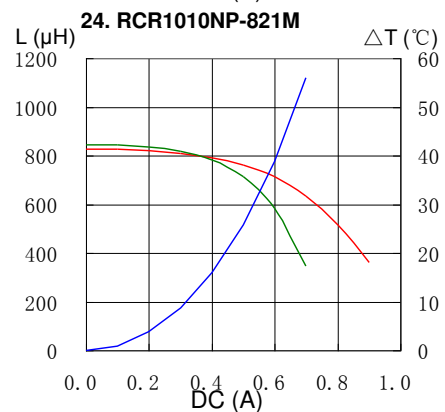
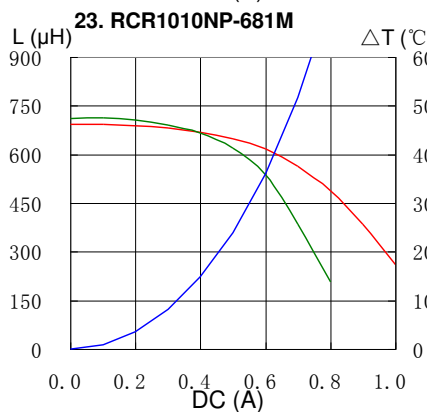
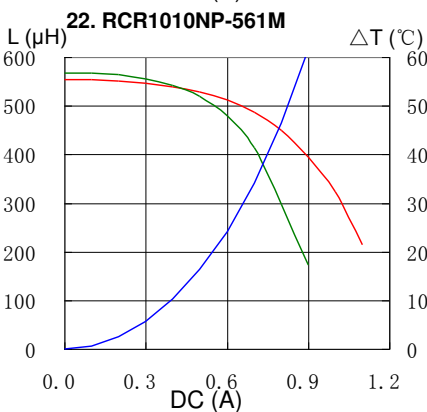
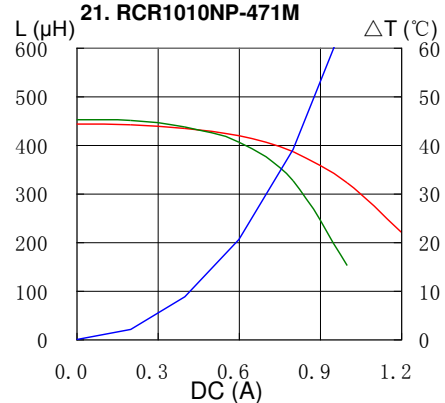
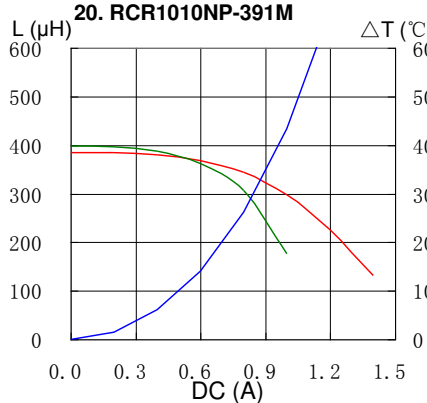
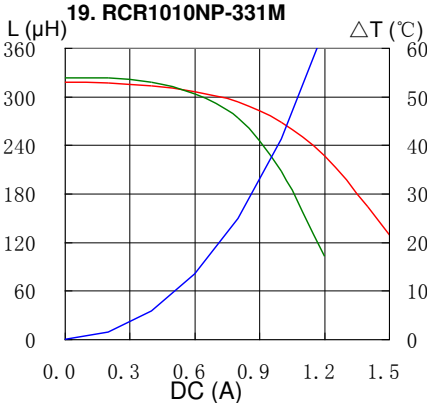
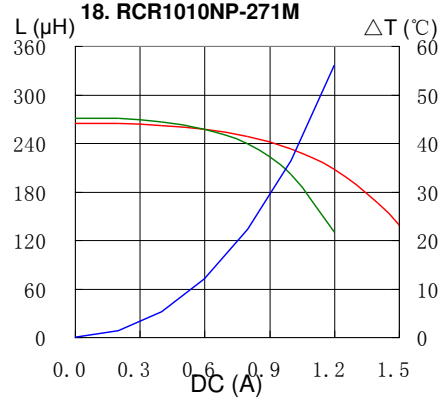
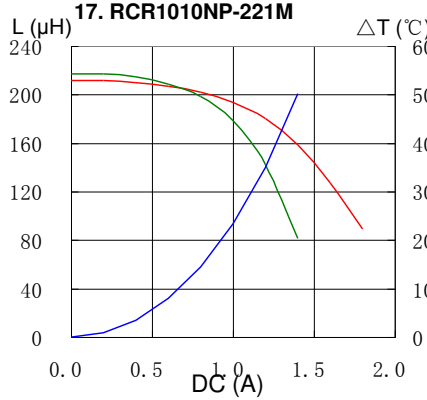
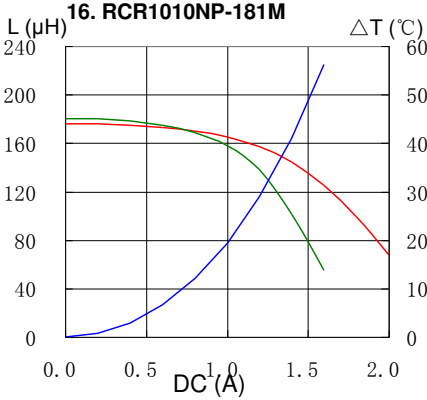
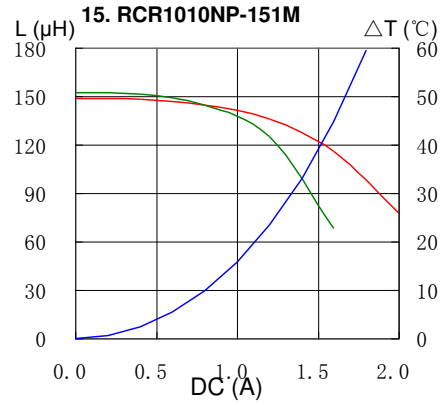
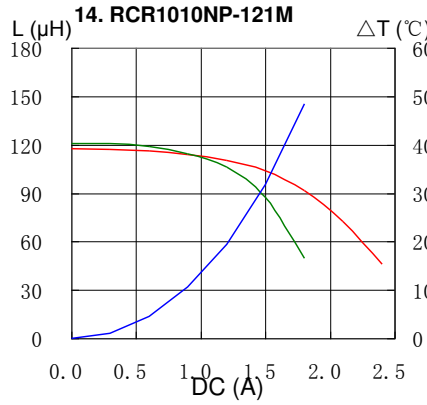
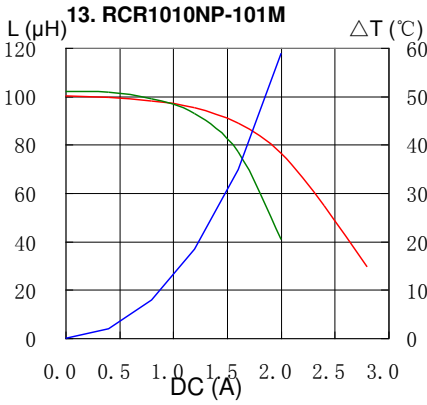


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

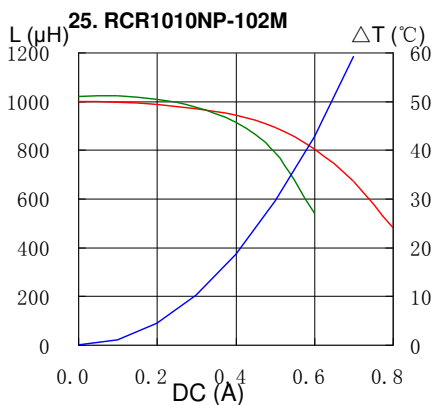


PIN Power Inductor RCR1010



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



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