

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

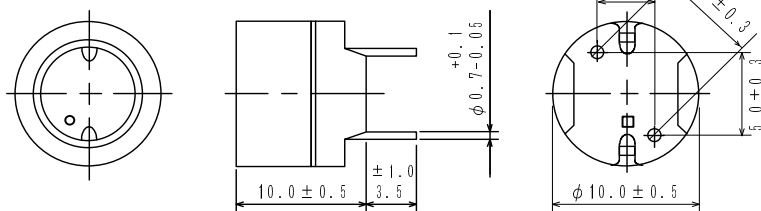
Packaging

- Box packaging.

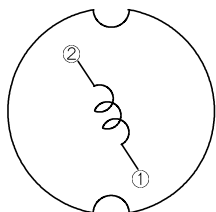
Applications

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

Dimension - [mm]



Schematics - [mm]



PIN Power Inductor RCR1010



Electrical Characteristics

Part Name	Stamp	Inductance (μ H) [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 μ H $\pm$ 20%	25.1(20.1)	4.8	3.8	4.3
RCR1010NP-120M	120M	12 μ H $\pm$ 20%	26.6(21.3)	4.5	3.5	4.2
RCR1010NP-150M	150M	15 μ H $\pm$ 20%	31.3(25.1)	4.0	3.2	4.1
RCR1010NP-180M	180M	18 μ H $\pm$ 20%	33.8(27.1)	3.8	2.9	4.0
RCR1010NP-220M	220M	22 μ H $\pm$ 20%	38.3(30.6)	3.4	2.6	3.8
RCR1010NP-270M	270M	27 μ H $\pm$ 20%	40.9(32.7)	3.0	2.5	3.6
RCR1010NP-330M	330M	33 μ H $\pm$ 20%	53.8(43.1)	2.7	2.2	3.2
RCR1010NP-390M	390M	39 μ H $\pm$ 20%	73.4(58.7)	2.5	2.0	2.5
RCR1010NP-470M	470M	47 μ H $\pm$ 20%	102.1(81.7)	2.2	1.8	2.2
RCR1010NP-560M	560M	56 μ H $\pm$ 20%	111.3(89.0)	2.1	1.7	2.1
RCR1010NP-680M	680M	68 μ H $\pm$ 20%	137.5(110.0)	1.8	1.4	1.9
RCR1010NP-820M	820M	82 μ H $\pm$ 20%	160.0(128.0)	1.7	1.3	1.8
RCR1010NP-101M	101M	100 μ H $\pm$ 20%	175.3(140.2)	1.5	1.2	1.7
RCR1010NP-121M	121M	120 μ H $\pm$ 20%	193.8(155.0)	1.4	1.1	1.6
RCR1010NP-151M	151M	150 μ H $\pm$ 20%	225.6(180.5)	1.2	1.0	1.5
RCR1010NP-181M	181M	180 μ H $\pm$ 20%	275.3(220.2)	1.1	0.9	1.4
RCR1010NP-221M	221M	220 μ H $\pm$ 20%	313.0(250.5)	1.0	0.8	1.3
RCR1010NP-271M	271M	270 μ H $\pm$ 20%	450.6(360.5)	0.95	0.74	1.0
RCR1010NP-331M	331M	330 μ H $\pm$ 20%	500.6(400.5)	0.88	0.64	0.98
RCR1010NP-391M	391M	390 μ H $\pm$ 20%	563.0(450.5)	0.78	0.60	0.94
RCR1010NP-471M	471M	470 μ H $\pm$ 20%	748.8(599.0)	0.72	0.58	0.80
RCR1010NP-561M	561M	560 μ H $\pm$ 20%	848.8(682.9)	0.68	0.55	0.75
RCR1010NP-681M	681M	680 μ H $\pm$ 20%	1202(962.0)	0.60	0.48	0.63
RCR1010NP-821M	821M	820 μ 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.

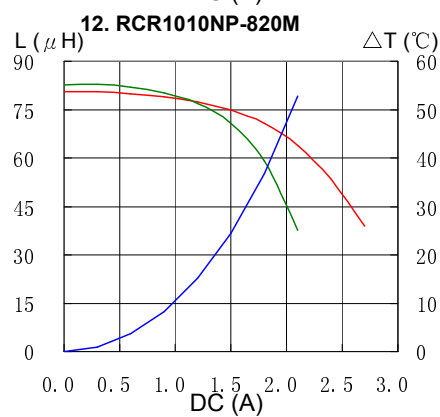
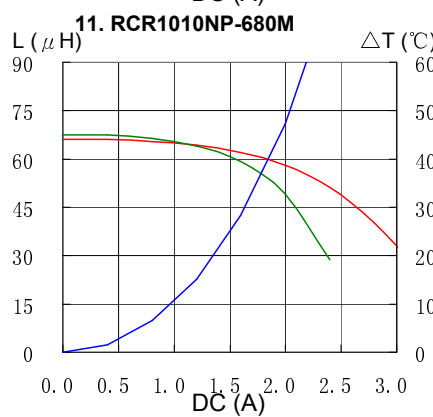
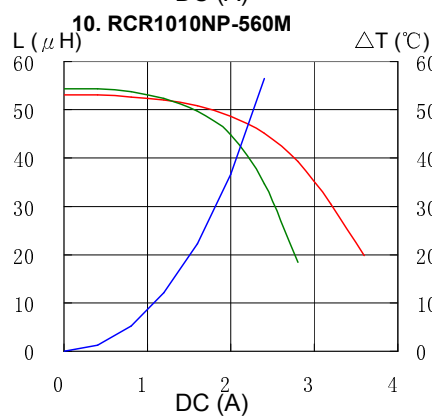
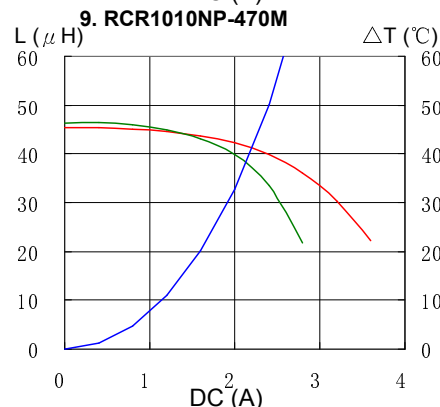
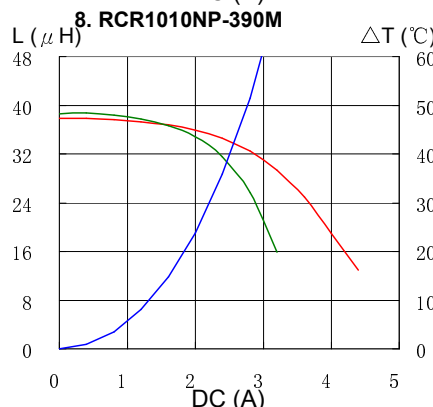
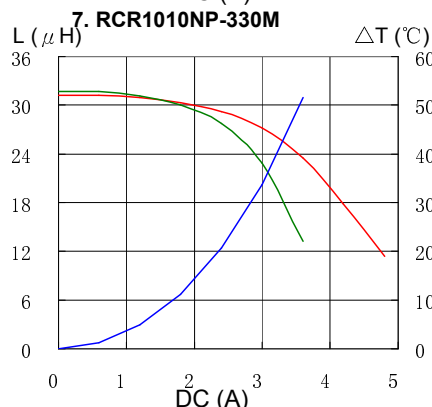
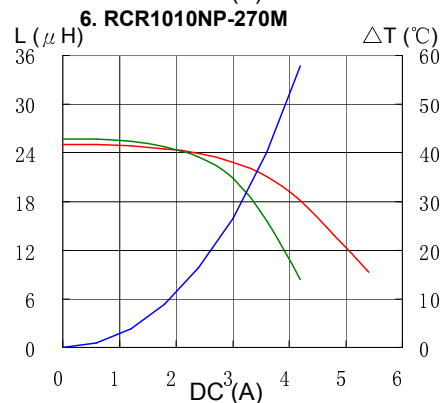
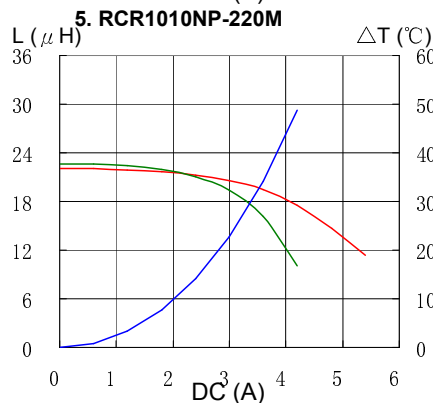
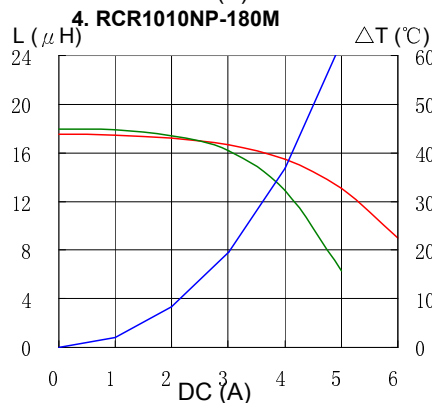
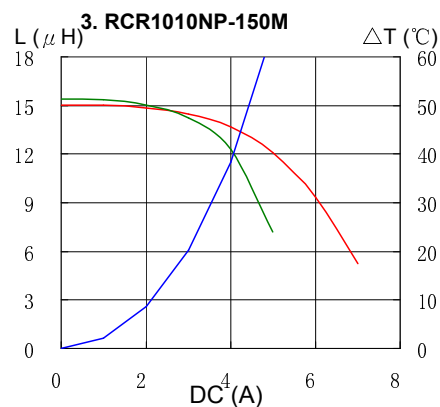
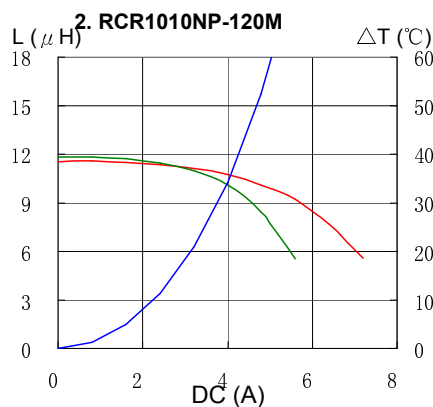
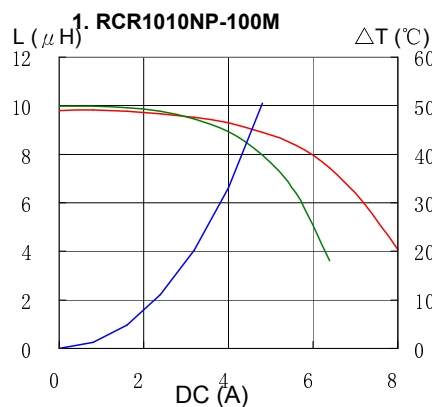
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

PIN Power Inductor RCR1010



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

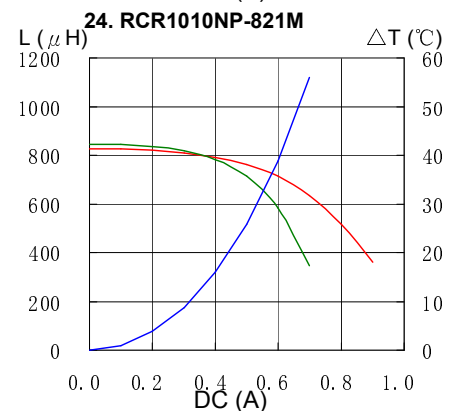
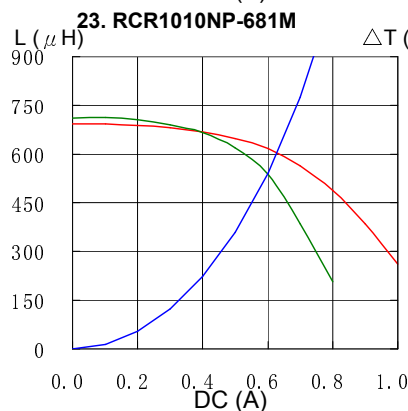
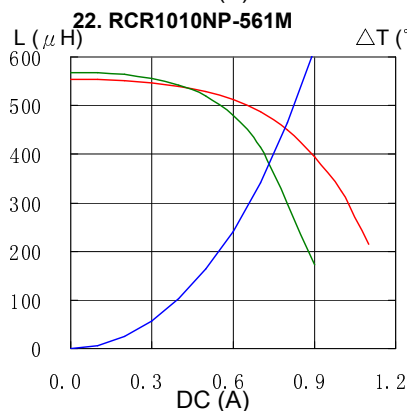
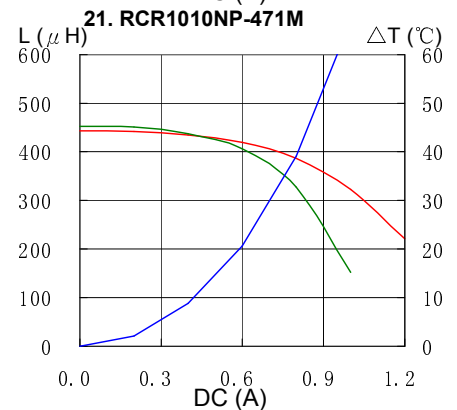
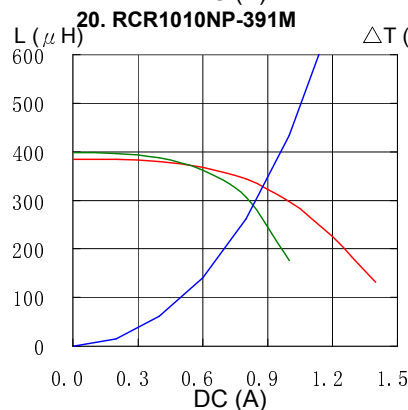
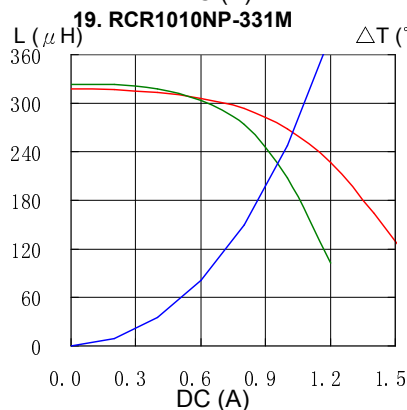
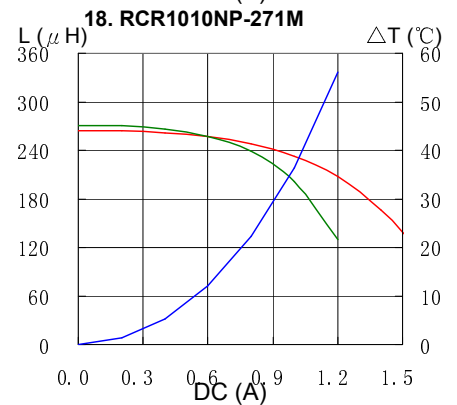
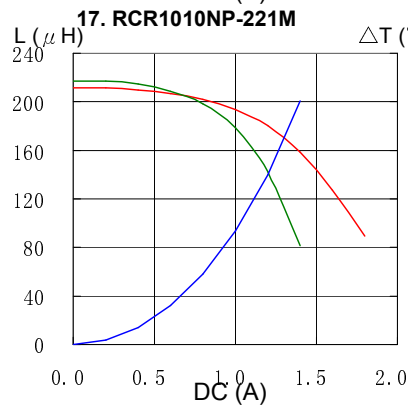
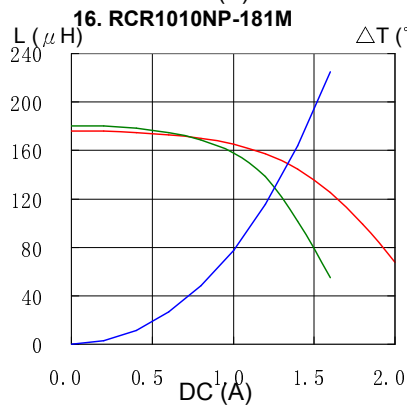
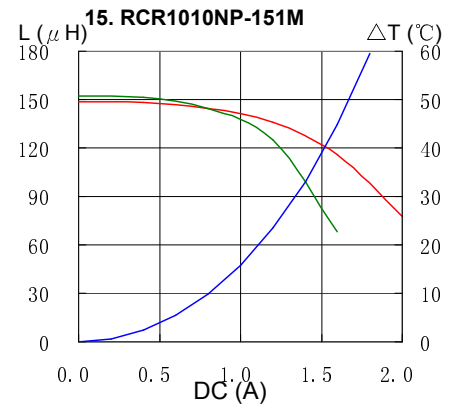
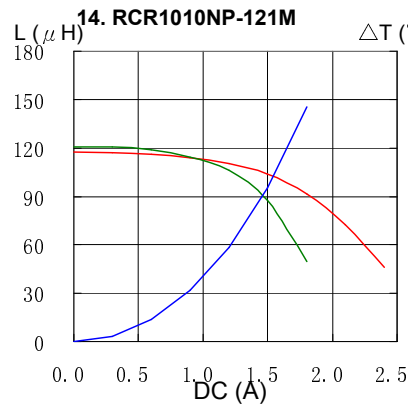
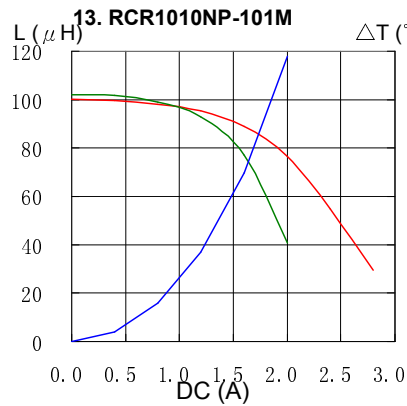


PIN Power Inductor RCR1010



Saturation Current & Temperature Rise Graph

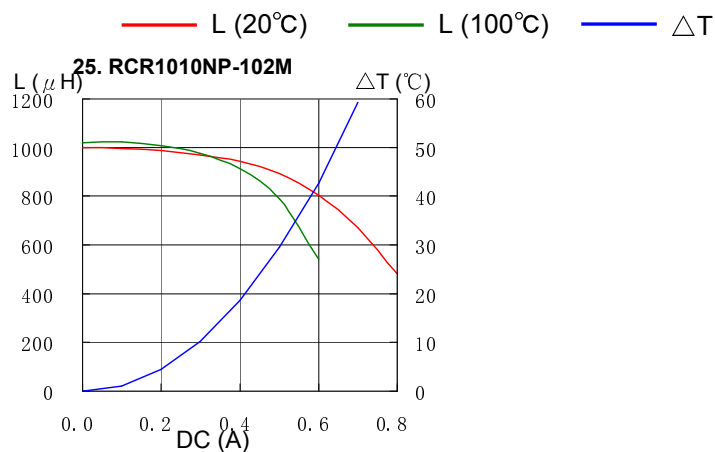
— L (20°C) — L (100°C) — ΔT



PIN Power Inductor RCR1010



Saturation Current & Temperature Rise Graph



Please refer to the sales offices on our website - <http://www.sumida.com>

Hong Kong

Tel. +852-2880-6781
FAX. +852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel. +81-48-691-7300
FAX. +81-48-691-7340
sales@jp.sumida.com

Chicago

Tel. +1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel. +86-21-5836-3299
FAX. +86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel. +82-2-6237-0777
FAX. +82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel. +49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel. +86-755-8291-0228
FAX. +86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel. +65-6296-3388
FAX. +65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel. +49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel. +886-2-8751-2737
FAX. +886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel. +1-408-321-9660
FAX. +1-408-321-9308
sales@us.sumida.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Sumida:

[RCR1010NP-680M](#) [RCR1010NP-150M](#) [RCR1010NP-470M](#) [RCR1010NP-820M](#) [RCR1010NP-270M](#) [RCR1010NP-271M](#) [RCR1010NP-151M](#) [RCR1010NP-821M](#) [RCR1010NP-330M](#) [RCR1010NP-100M](#) [RCR1010NP-180M](#) [RCR1010NP-471M](#) [RCR1010NP-560M](#) [RCR1010NP-221M](#) [RCR1010NP-120M](#) [RCR1010NP-121M](#) [RCR1010NP-101M](#) [RCR1010NP-181M](#) [RCR1010NP-681M](#) [RCR1010NP-391M](#) [RCR1010NP-390M](#) [RCR1010NP-331M](#) [RCR1010NP-220M](#) [RCR1010NP-561M](#) [RCR1010NP-102M](#)