

# PIN Power Inductor RCR-110D



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.5 × 10.5mm Max.
- Product weight: 2.7 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

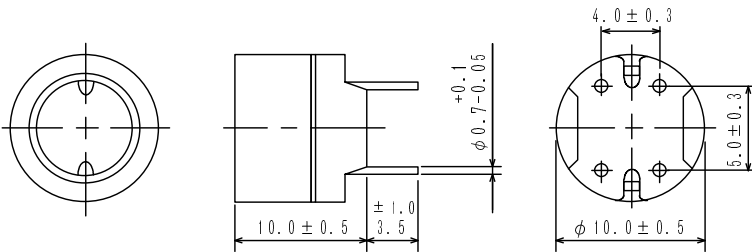
## Packaging

- Box packaging.

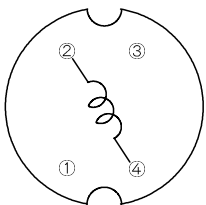
## Applications

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

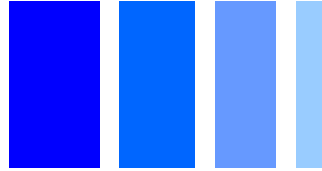
## Dimension - [mm]



## Schematics - [mm]



# PIN Power Inductor RCR-110D



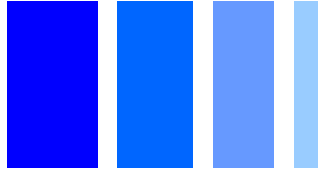
## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. ( $\Omega$ ) [Max.] (at 20°C)	Rated Current ( A )※2
RCR110DNP-100M	100M	10 $\mu$ H $\pm$ 20%	0.023	3.51
RCR110DNP-120M	120M	12 $\mu$ H $\pm$ 20%	0.024	3.24
RCR110DNP-150M	150M	15 $\mu$ H $\pm$ 20%	0.036	2.88
RCR110DNP-180M	180M	18 $\mu$ H $\pm$ 20%	0.039	2.61
RCR110DNP-220M	220M	22 $\mu$ H $\pm$ 20%	0.042	2.34
RCR110DNP-270M	270M	27 $\mu$ H $\pm$ 20%	0.045	2.16
RCR110DNP-330L	330L	33 $\mu$ H $\pm$ 15%	0.057	1.89
RCR110DNP-390L	390L	39 $\mu$ H $\pm$ 15%	0.076	1.80
RCR110DNP-470L	470L	47 $\mu$ H $\pm$ 15%	0.10	1.62
RCR110DNP-560L	560L	56 $\mu$ H $\pm$ 15%	0.11	1.44
RCR110DNP-680L	680L	68 $\mu$ H $\pm$ 15%	0.15	1.35
RCR110DNP-820L	820L	82 $\mu$ H $\pm$ 15%	0.16	1.26
RCR110DNP-101L	101L	100 $\mu$ H $\pm$ 15%	0.19	1.08
RCR110DNP-121L	121L	120 $\mu$ H $\pm$ 15%	0.21	0.99
RCR110DNP-151L	151L	150 $\mu$ H $\pm$ 15%	0.23	0.90
RCR110DNP-181L	181L	180 $\mu$ H $\pm$ 15%	0.26	0.82
RCR110DNP-221L	221L	220 $\mu$ H $\pm$ 15%	0.29	0.74
RCR110DNP-271L	271L	270 $\mu$ H $\pm$ 15%	0.36	0.67
RCR110DNP-331L	331L	330 $\mu$ H $\pm$ 15%	0.51	0.61
RCR110DNP-391L	391L	390 $\mu$ H $\pm$ 15%	0.69	0.55
RCR110DNP-471L	471L	470 $\mu$ H $\pm$ 15%	0.98	0.51
RCR110DNP-561L	561L	560 $\mu$ H $\pm$ 15%	1.1	0.46
RCR110DNP-681L	681L	680 $\mu$ H $\pm$ 15%	1.2	0.42
RCR110DNP-821L	821L	820 $\mu$ H $\pm$ 15%	1.3	0.38
RCR110DNP-102L	102L	1.0mH $\pm$ 15%	1.5	0.35

※1 Inductance Measuring condition at 1kHz .

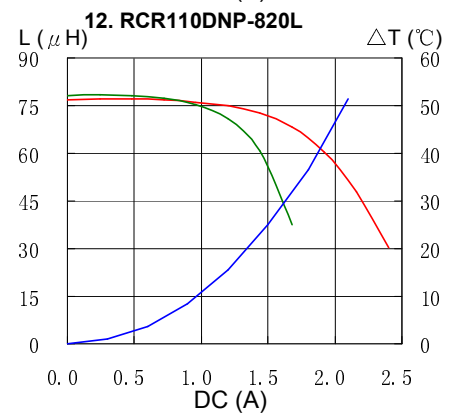
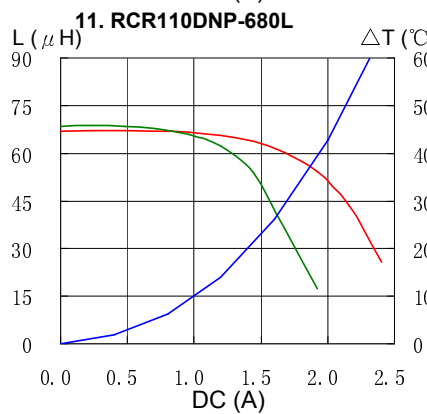
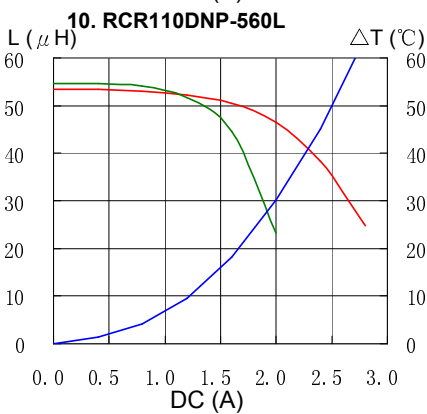
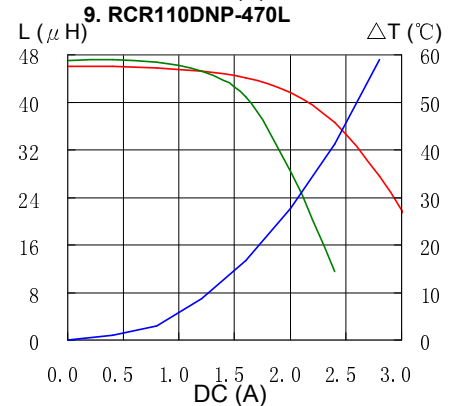
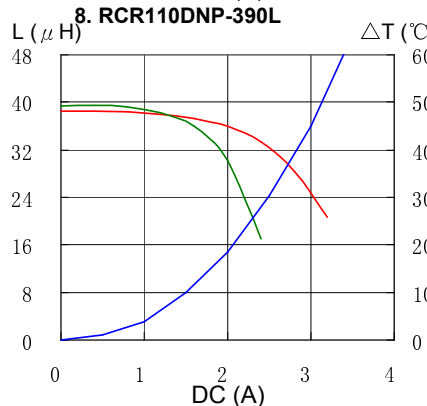
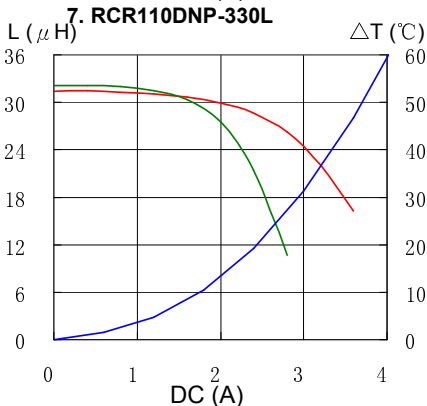
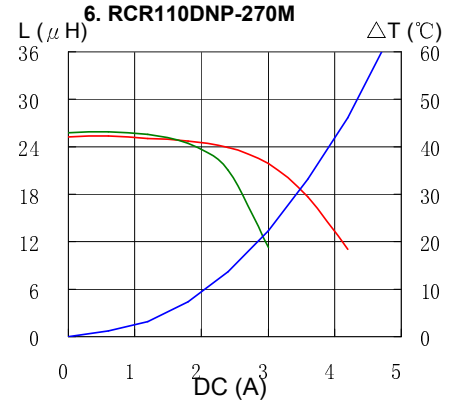
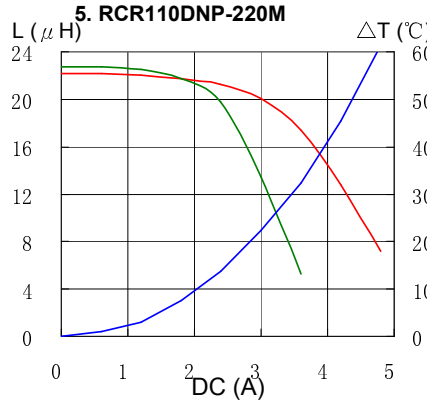
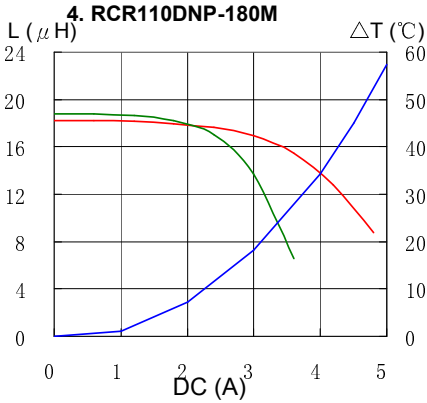
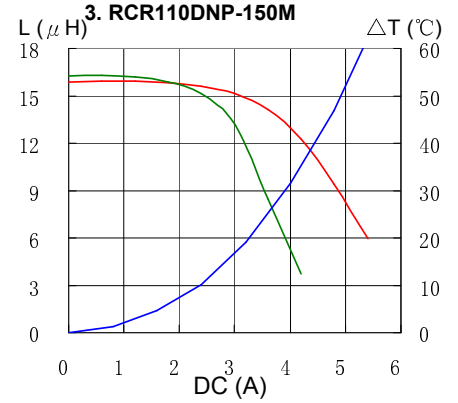
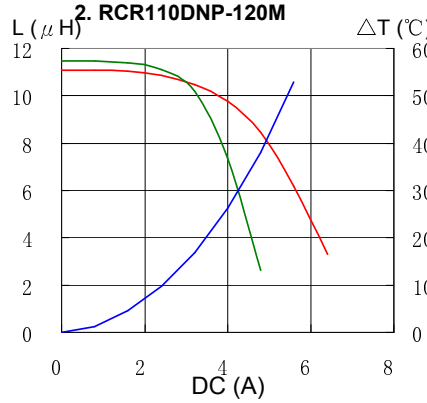
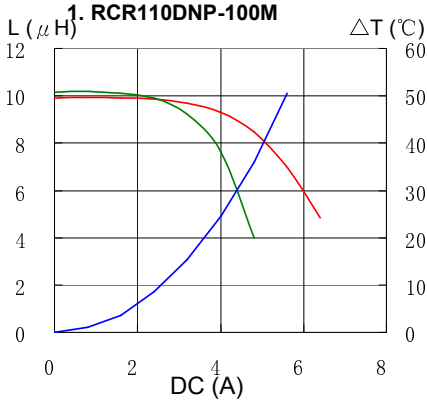
※2 Rated current: The DC current at which the inductance decreases 90% of it's initial value or when  $\Delta t=40^{\circ}\text{C}$  whichever is lower ( $T_a=20^{\circ}\text{C}$ ).

# PIN Power Inductor RCR-110D



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

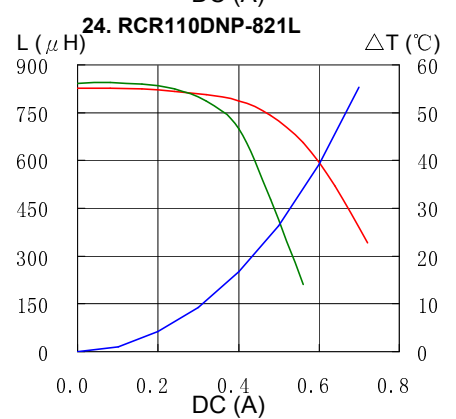
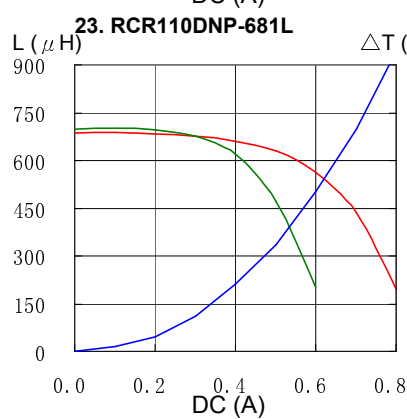
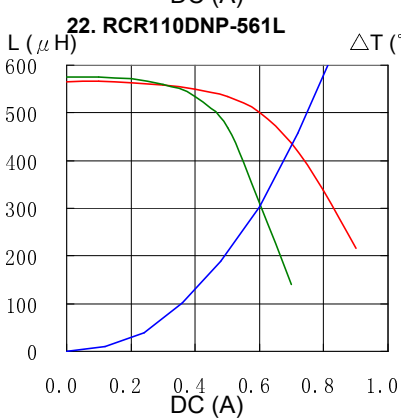
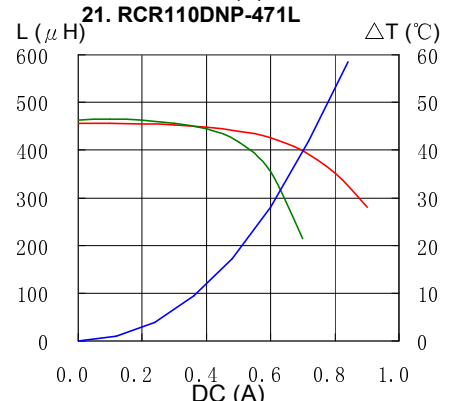
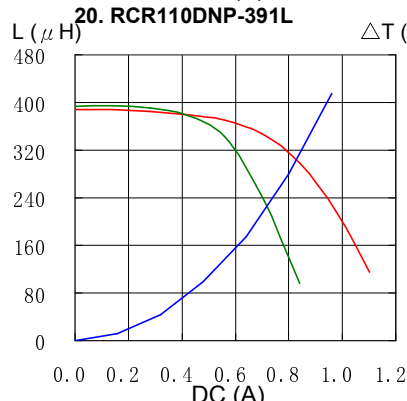
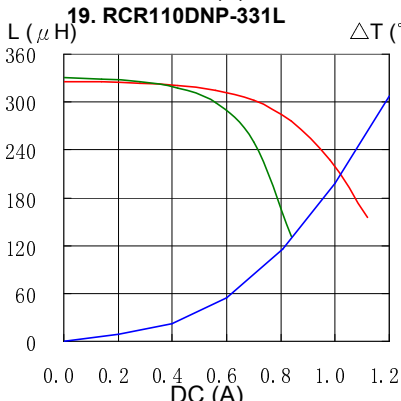
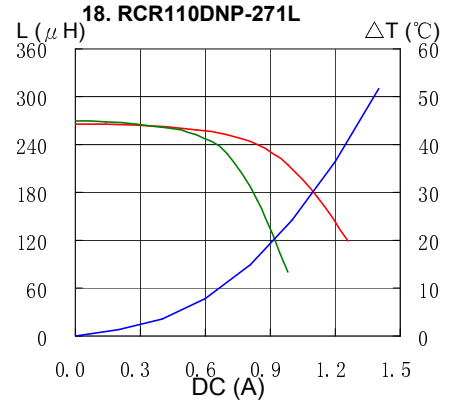
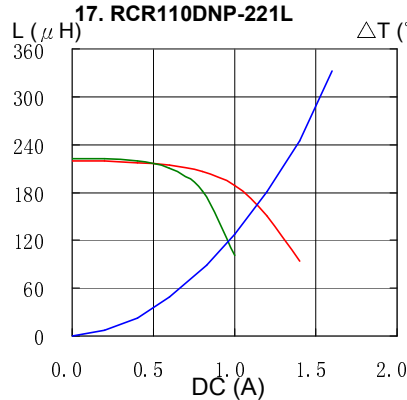
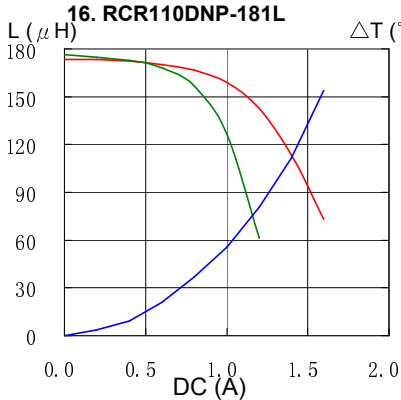
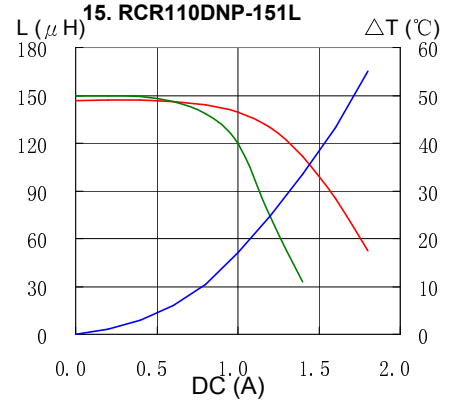
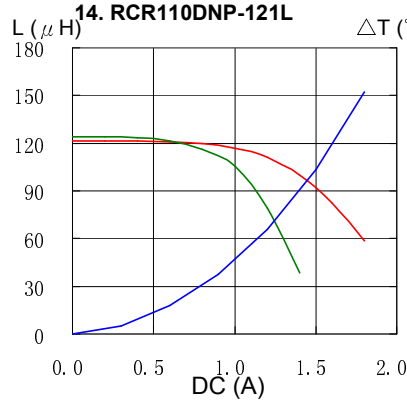
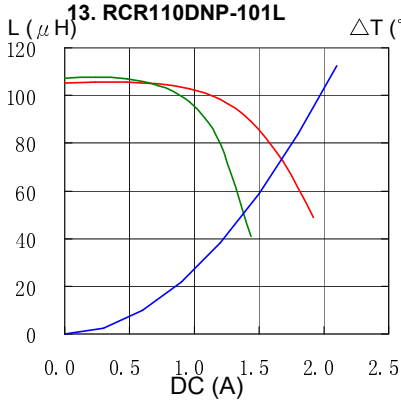


# PIN Power Inductor RCR-110D



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

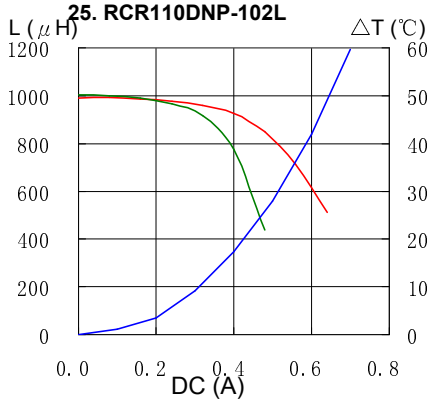


# PIN Power Inductor RCR-110D



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



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

### Hong Kong

Tel.+852-2880-6688  
FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

### Tokyo

Tel.+81-3-5202-7112  
FAX.+81-3-5202-7105  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

### Chicago

Tel.+1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

### Shanghai

Tel.+86-021-5836-3299  
FAX.+86-021-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

### Seoul

Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

### Oberzell

Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@sumida-eu.com](mailto:contact@sumida-eu.com)

### Shenzhen

Tel.+86-755-8291-0228  
FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

### Singapore

Tel.+65-6296-3388  
FAX.+65-6296-3390  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

### Neumarkt

Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

### Taipei

Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

### San Jose

Tel.+1-408-321-9660  
FAX.+1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)