

# PIN Power Inductor RCH8011



Halogen  
Free



## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.3 × 8.3 × 10.8mm Max.
- Product weight: 1.6 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range: -30°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -30°C~+100°C

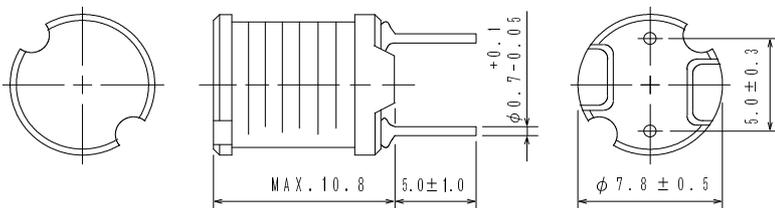
## Packaging

- Box packaging.

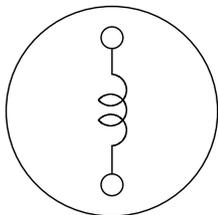
## Applications

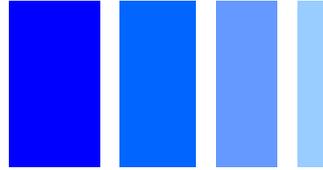
- Ideally used in Printers, LCD TV, DVD, Copy Machine, Mainboard of the compounding machines etc. as DC-DC Converter inductors.

## Dimension - [mm]



## Schematics - [mm]





## Electrical Characteristics

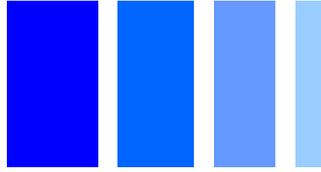
PART NAME	STAMP	INDUCTANCE [WITHIN] ※1	D. C. R. [MAX. ] (TYP. ) (at 20°C) (mΩ)	THE SATURATION CURRENT (mA)※2	TEMPERATURE RISE CURRENT (mA) ※3
RCH8011NP-100L	100	10 μH ± 15%	35 (28)	4400	4100
RCH8011NP-120L	120	12 μH ± 15%	40 (32)	4000	3950
RCH8011NP-150L	150	15 μH ± 15%	47 (38)	3600	3750
RCH8011NP-180L	180	18 μH ± 15%	53 (42)	3300	3600
RCH8011NP-220L	220	22 μH ± 15%	56 (45)	2800	3050
RCH8011NP-270L	270	27 μH ± 15%	65 (52)	2600	2800
RCH8011NP-330L	330	33 μH ± 15%	75 (60)	2400	2700
RCH8011NP-390L	390	39 μH ± 15%	84 (67)	2200	2550
RCH8011NP-470L	470	47 μH ± 15%	110 (88)	2000	2150
RCH8011NP-560L	560	56 μH ± 15%	123 (98)	1850	2000
RCH8011NP-680L	680	68 μH ± 15%	138 (111)	1700	1900
RCH8011NP-820L	820	82 μH ± 15%	190 (154)	1600	1550
RCH8011NP-101L	101	100 μH ± 15%	215 (172)	1500	1500
RCH8011NP-121L	121	120 μH ± 15%	275 (222)	1200	1300
RCH8011NP-151L	151	150 μH ± 15%	310 (250)	1100	1200
RCH8011NP-181L	181	180 μH ± 15%	360 (288)	1000	1100
RCH8011NP-221L	221	220 μH ± 15%	440 (354)	950	1050
RCH8011NP-271L	271	270 μH ± 15%	590 (472)	900	900
RCH8011NP-331L	331	330 μH ± 15%	640 (512)	800	820
RCH8011NP-391L	391	390 μH ± 15%	710 (570)	700	780
RCH8011NP-471L	471	470 μH ± 15%	900 (720)	650	700
RCH8011NP-561L	561	560 μH ± 15%	1125 (903)	600	640
RCH8011NP-681L	681	680 μH ± 15%	1280 (1025)	560	540
RCH8011NP-821L	821	820 μH ± 15%	1660 (1329)	520	500
RCH8011NP-102L	102	1000 μH ± 15%	1915 (1532)	490	470

※1: Inductance measuring condition: 100kHz

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

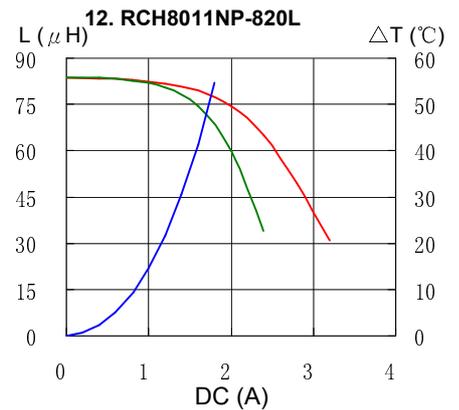
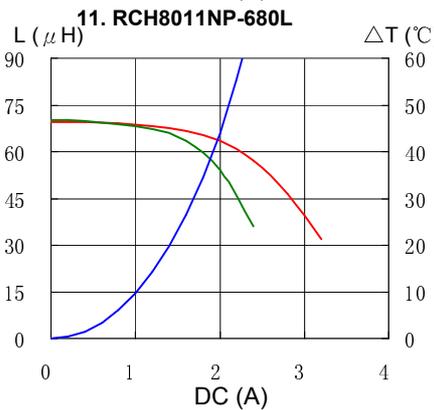
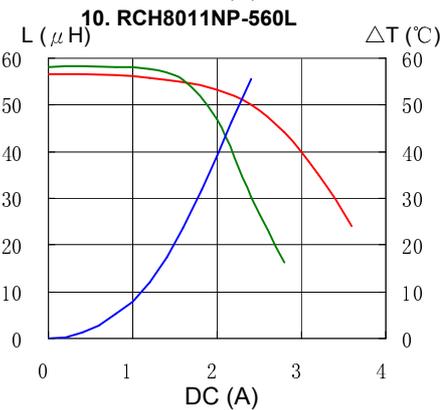
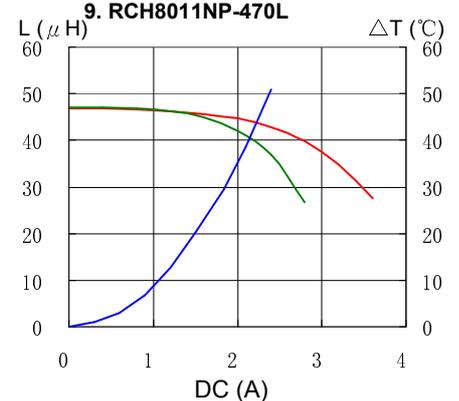
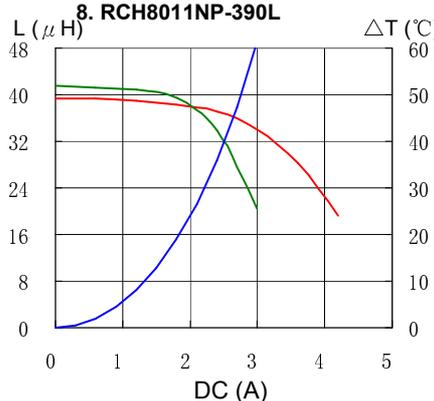
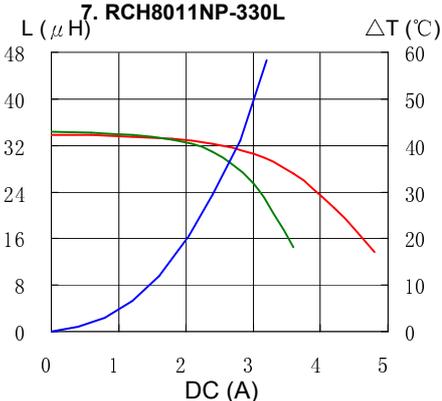
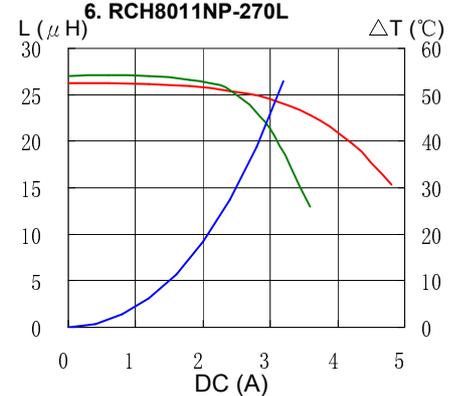
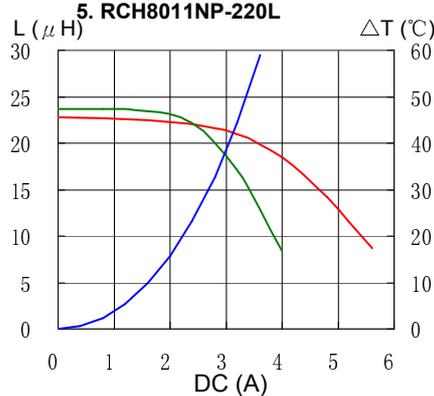
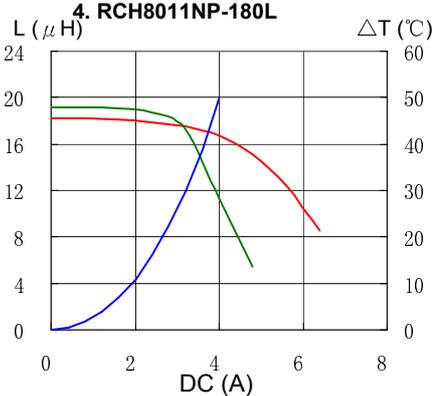
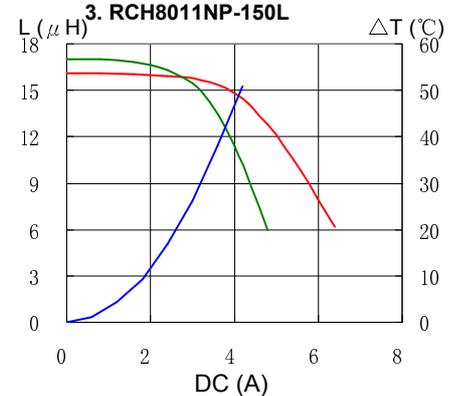
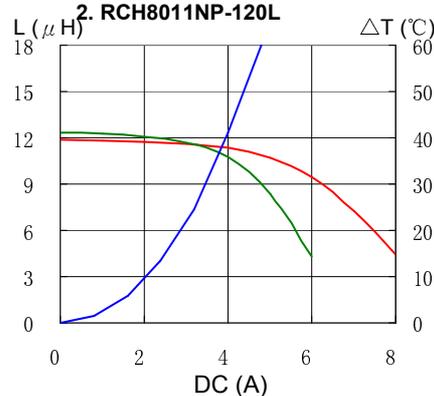
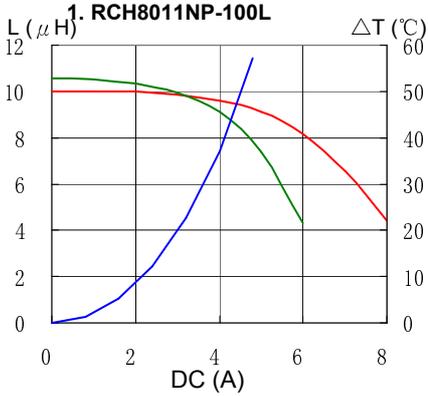
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# PIN Power Inductor RCH8011



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



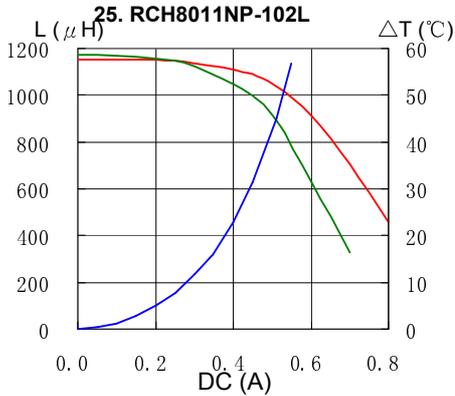


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