

PIN Power Inductor RCH110C



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 11.0 × 11.0 × 10.5mm Max.
- Product weight: 2.6g(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

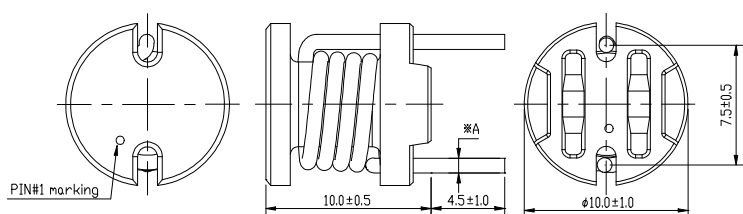
Packaging

- Box packaging.

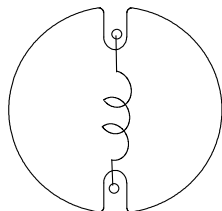
Applications

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

Dimension - [mm]



Schematics - [mm]



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	
RCH110CNP-0R9M	0R9M	0.9 $\pm$ 20%	3.73(2.98)	19.0	16.0	12.0
RCH110CNP-1R5M	1R5M	1.5 $\pm$ 20%	4.80(3.84)	18.0	14.0	10.0
RCH110CNP-1R8M	1R8M	1.8 $\pm$ 20%	5.75(4.57)	16.5	12.5	9.8
RCH110CNP-2R2M	2R2M	2.2 $\pm$ 20%	6.62(5.29)	14.4	11.0	9.4
RCH110CNP-3R3M	3R3M	3.3 $\pm$ 20%	7.57(6.05)	12.8	10.4	9.0
RCH110CNP-3R9M	3R9M	3.9 $\pm$ 20%	11.66(9.33)	11.2	8.8	7.0
RCH110CNP-4R7M	4R7M	4.7 $\pm$ 20%	12.95(10.35)	10.4	8.0	6.5
RCH110CNP-5R6M	5R6M	5.6 $\pm$ 20%	14.05(11.24)	9.2	7.6	6.2
RCH110CNP-6R8M	6R8M	6.8 $\pm$ 20%	15.36(12.29)	8.8	6.8	6.1
RCH110CNP-7R5M	7R5M	7.5 $\pm$ 20%	16.90(13.52)	8.0	6.4	6.0
RCH110CNP-8R2M	8R2M	8.2 $\pm$ 20%	18.51(14.81)	7.2	6.0	5.8

※1. Inductance measuring frequency at 100 kHz.

※2. Saturation current: The DC current at which the inductance decreases to 90% of its nominal value.

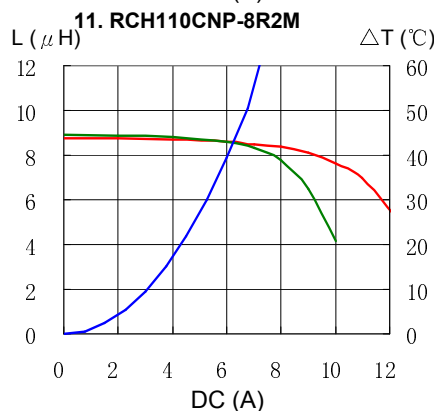
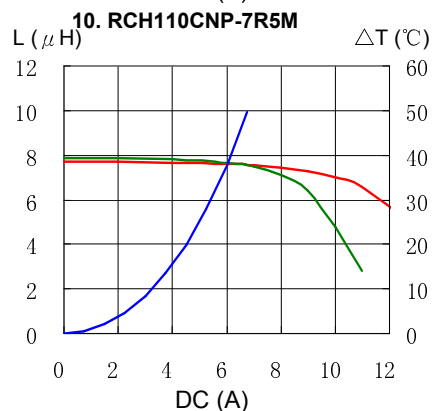
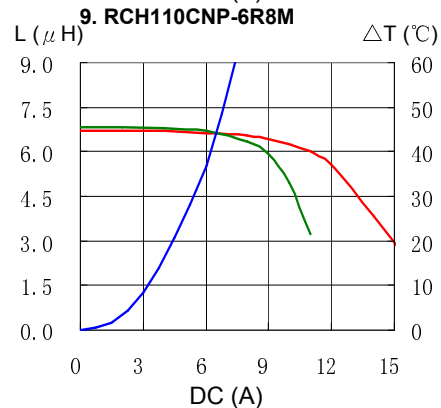
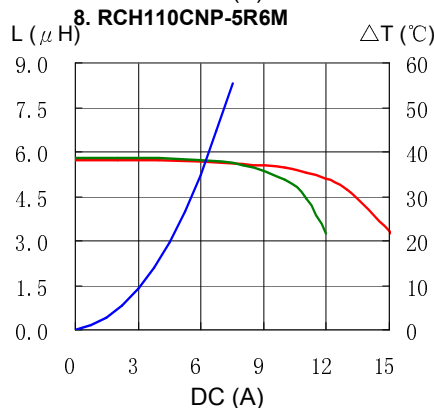
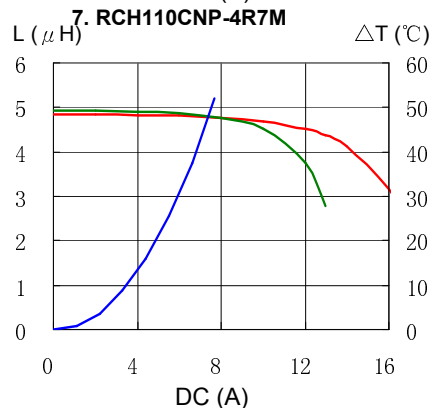
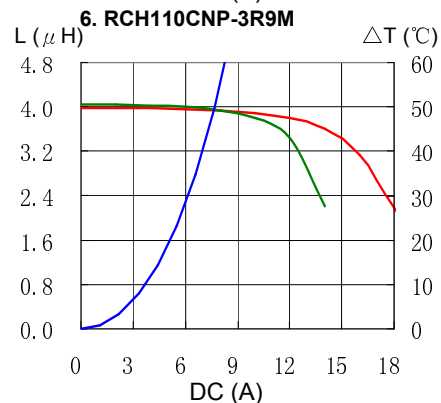
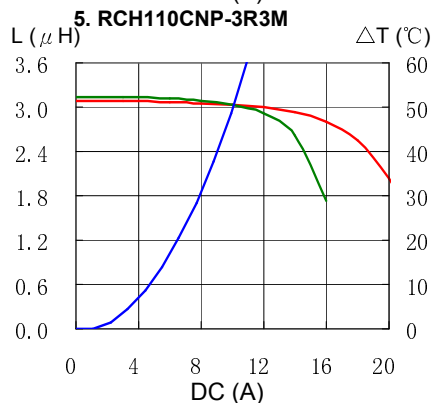
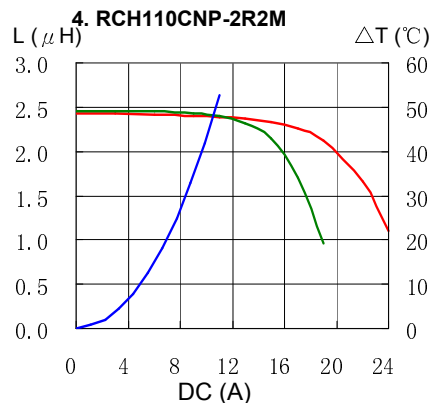
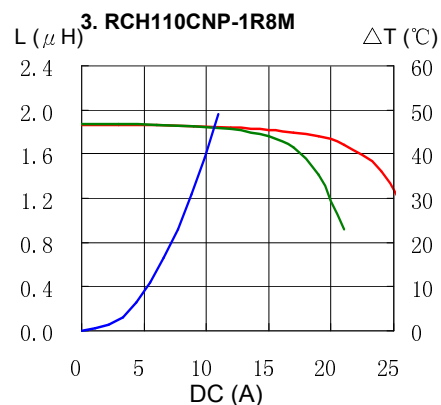
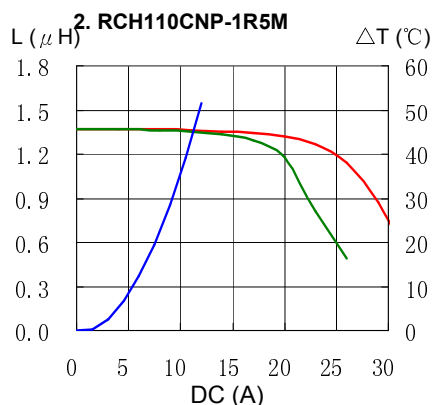
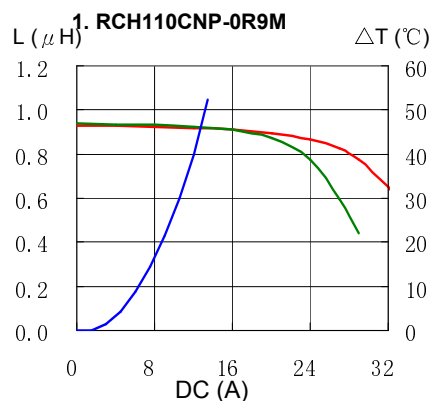
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



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