

PIN Power Inductor RCH4764B



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 5.0 × 5.0 × 6.5mm Max.
- Product weight: 0.5 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -20°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -20°C~+85°C

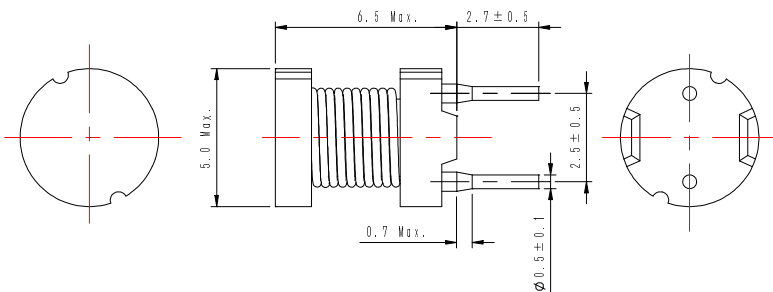
Packaging

- Box packaging.

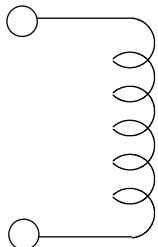
Applications

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

Dimension - [mm]



Connection - [mm]



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Electrical Characteristics

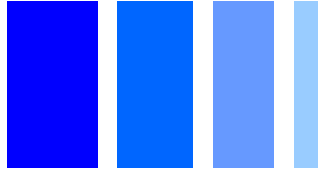
Part No.	Stamp	Inductance [Within] ※1	D. C. R. (Ω) Max. (typ.) (at 20°C)	Saturation current (at 20°C) (A) ※3	Temperature rise current (A) ※4
RCH4764BNP-1R5M	C	1.5 μ H \pm 20%	30m (22m)	5.8	3.3
RCH4764BNP-2R7M	F	2.7 μ H \pm 20%	40m (29m)	4.8	2.7
RCH4764BNP-3R9M	H	3.9 μ H \pm 20%	48m (35m)	3.8	2.5
RCH4764BNP-6R8M	L	6.8 μ H \pm 20%	64m (47m)	2.8	2.3
RCH4764BNP-100M	N	10 μ H \pm 20%	100m (74m)	2.4	1.5
RCH4764BNP-220M	S	22 μ H \pm 20%	183m (147m)	1.7	1.2
RCH4764BNP-390M	V	39 μ H \pm 20%	281m (225m)	1.1	1.0
RCH4764BNP-680K	Y	68 μ H \pm 10%	537m (430m)	0.9	0.72
RCH4764BNP-101K	A	100 μ H \pm 10%	843m (675m)	0.78	0.58
RCH4764BNP-271K	F	270 μ H \pm 10%	2.41 (1.93)	0.48	0.31
RCH4764BNP-391K	H	390 μ H \pm 10%	3.36 (2.69)	0.39	0.25
RCH4764BNP-681K	L	680 μ H \pm 10%	5.56 (4.45)	0.30	0.18
RCH4764BNP-102K	N	1.0mH \pm 10%	8.25 (6.60)	0.24	0.16

※1: Inductance measuring condition: 1.5 μ H~6.8 μ H at 100KHz ; 10 μ H~1.0mH at 1kHz

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

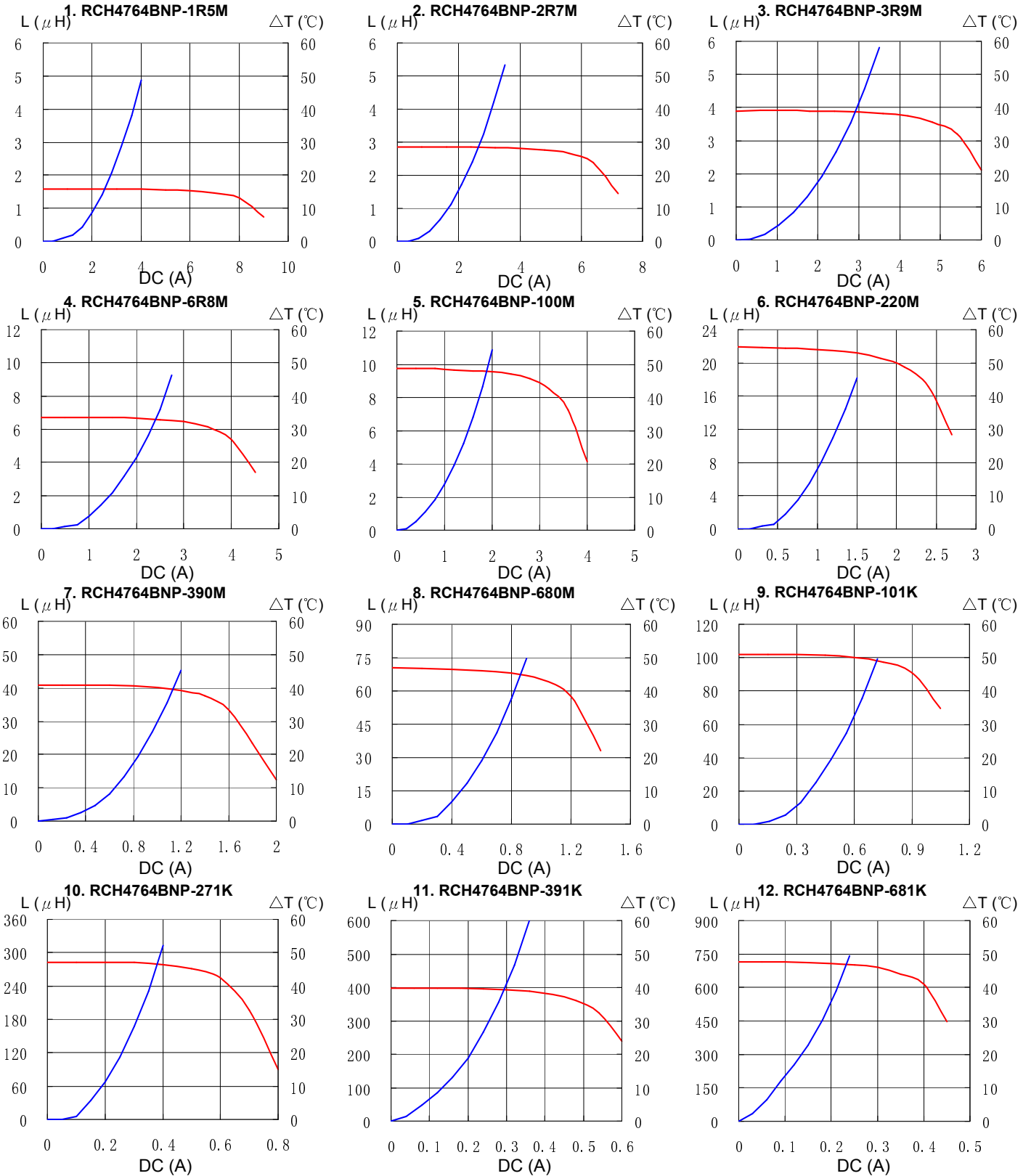
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

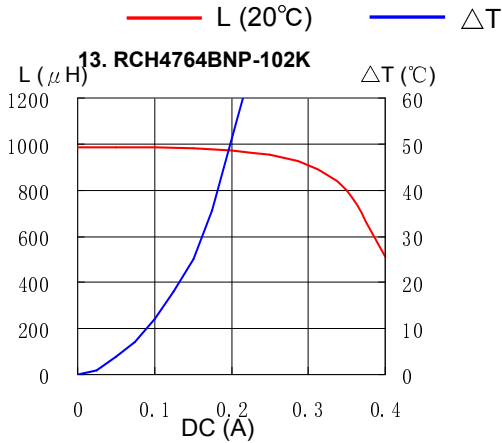
— L (20°C) — ΔT



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Saturation Current & Temperature Rise Graph



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