

RCH4764BNP-1R5M Datasheet



DiGi Electronics Part Number	RCH4764BNP-1R5M-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	RCH4764BNP-1R5M
Description	INDUCTOR
Detailed Description	1.5 μ H Unshielded Drum Core, Wirewound Inductor 3.3 A 30mOhm Max Radial

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Purchase and inquiry

Manufacturer Product Number:

RCH4764BNP-1R5M

Series:

RCH4764B

Type:

Drum Core, Wirewound

Inductance:

1.5 μ H

Current Rating (Amps):

3.3 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Through Hole

Supplier Device Package:

Radial

Height - Seated (Max):

0.256" (6.50mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

5.8A

DC Resistance (DCR):

30mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-20°C ~ 105°C

Features:

-

Package / Case:

Radial

Size / Dimension:

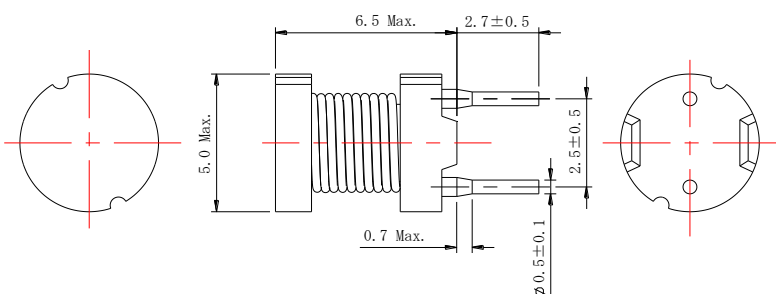
0.197" Dia (5.00mm)

PIN Power Inductor

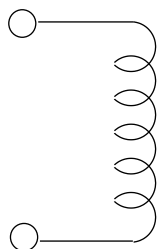
RCH4764B



Dimension - [mm]



Connection - [mm]



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

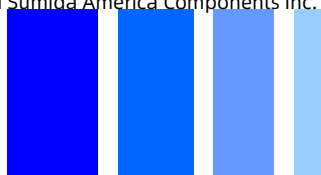
- Box packaging.

Applications

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

PIN Power Inductor

RCH4764B



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	<u>C</u>	1.5 μ H \pm 20%	30m (22m)	5.8	3.3
RCH4764BNP-2R7M	<u>F</u>	2.7 μ H \pm 20%	40m (29m)	4.8	2.7
RCH4764BNP-3R9M	<u>H</u>	3.9 μ H \pm 20%	48m (35m)	3.8	2.5
RCH4764BNP-6R8M	<u>L</u>	6.8 μ H \pm 20%	64m (47m)	2.8	2.3
RCH4764BNP-100M	<u>N</u>	10 μ H \pm 20%	100m (74m)	2.4	1.5
RCH4764BNP-220M	<u>S</u>	22 μ H \pm 20%	183m (147m)	1.7	1.2
RCH4764BNP-390M	<u>V</u>	39 μ H \pm 20%	281m (225m)	1.1	1.0
RCH4764BNP-680K	<u>Y</u>	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

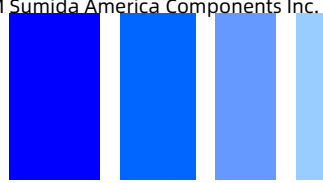
※1: Inductance measuring condition: 1.5 μ H~6.8 μ H at 100KHz ; 10 μ H~1.0mH at 1kHz

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

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

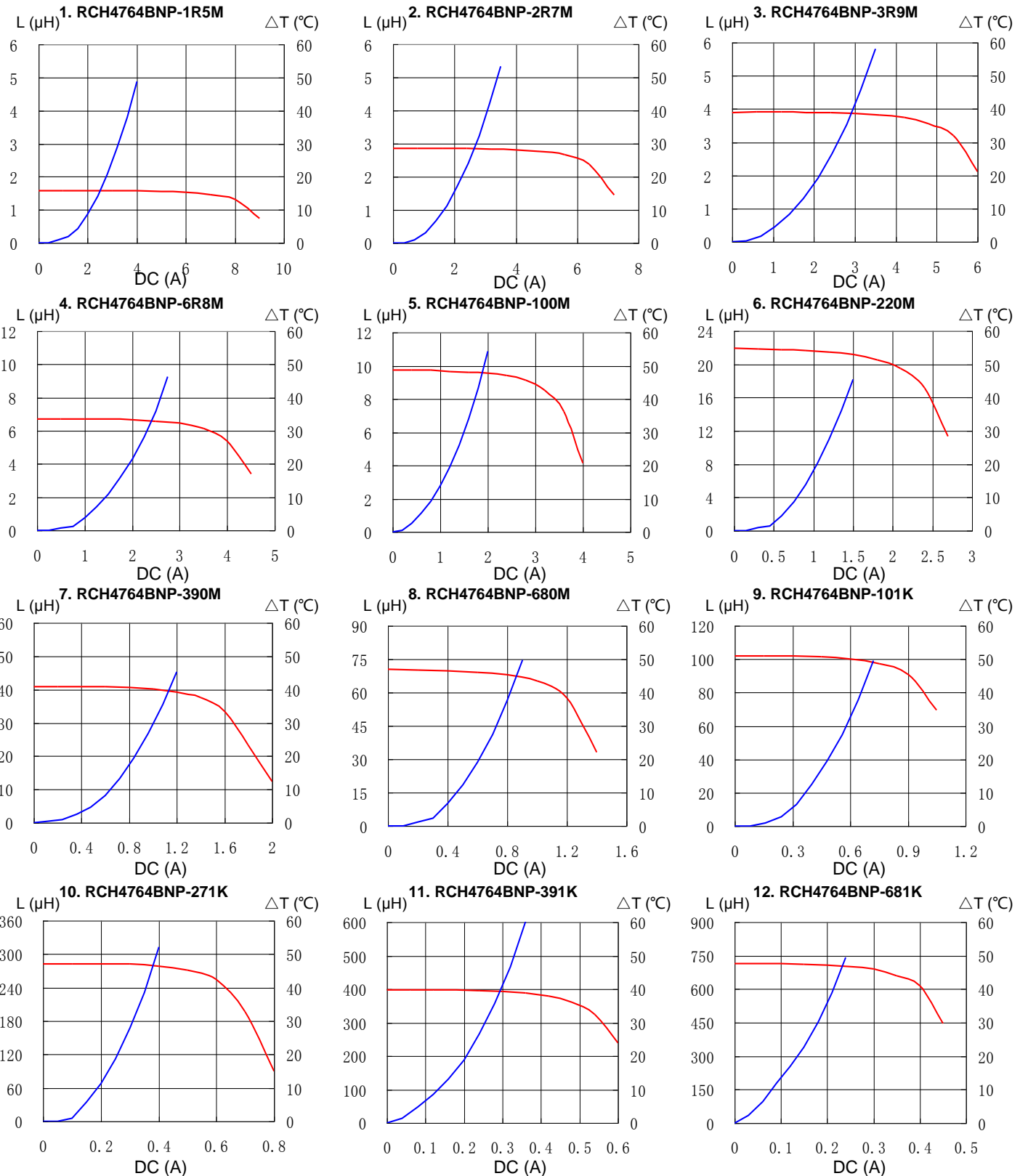
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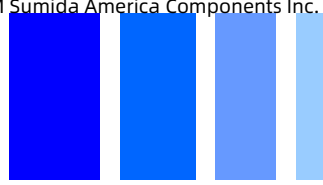
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



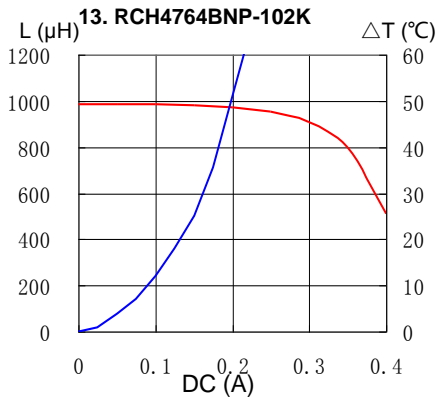
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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



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