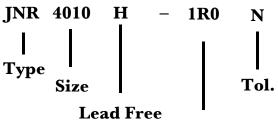


FEATURES

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 3. Operating temperature :-40~+125 $^{\circ}$ C (Including self temperature rise)

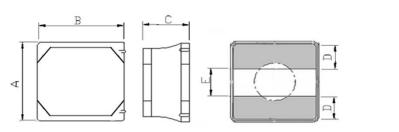
PRODUCT IDENTIFICATION

SMD POWER COIL-JNR 4010H

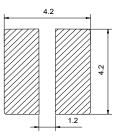


Inductance

DIMENSIONS (mm)



Recommended PC Board Pattern



Part No.			Size (mm)		
Fart NO.	Α	В	С	D	Е
JNR 4010H	4.0 ± 0.2	4.0 ± 0.2	1.0 Max.	1.2 Ref.	1.6 Ref.

SERIES LIST

No.	Part No.	L	Tol.	RDC (Ω)		sat A)		ms A)
		(μH)		±20%	typ	max	typ	max
1	JNR 4010H-1R0N	1.0	±30%	0.056	2.40	2.00	2.30	1.90
2	JNR 4010H-2R2M	2.2	±20%	0.085	1.50	1.20	1.80	1.50
3	JNR 4010H-3R3M	3.3	±20%	0.100	1.30	1.10	1.70	1.40
4	JNR 4010H-4R7M	4.7	±20%	0.140	1.20	0.95	1.50	1.20
5	JNR 4010H-6R8M	6.8	±20%	0.200	1.00	0.80	1.20	1.00
6	JNR 4010H-100M	10	±20%	0.300	0.80	0.62	0.90	0.75
7	JNR 4010H-150M	15	±20%	0.430	0.70	0.54	0.80	0.60
8	JNR 4010H-220M	22	±20%	0.570	0.60	0.45	0.80	0.50

Note:

1. Test Frequency : 100KHz /1V

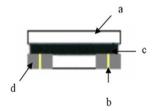
2. All test data referenced to $25^\circ\!\!\mathbb{C}$ ambient

3. Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.

4. Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C

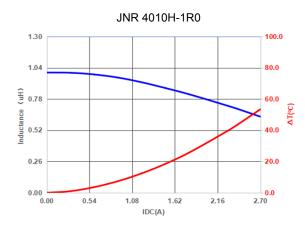
5. Rated DC current : The lower value of Irms and Isat.

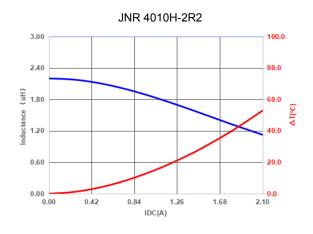
Materials

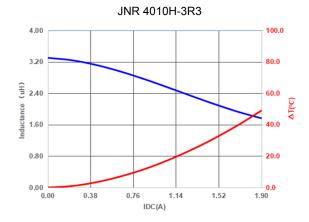


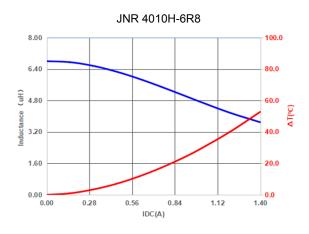
No.	Description	Specification
а	Core	Ferrite Core
b	Wire	Enameled Copper Wire
С	Glue	Epoxy with magnetic powder
d	Terminal	Ag/Ni/Sn

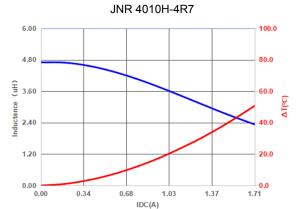
TYPICAL PERFORMANCE CURVES

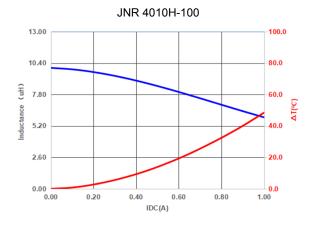


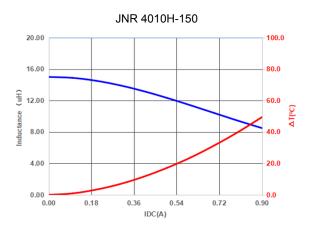


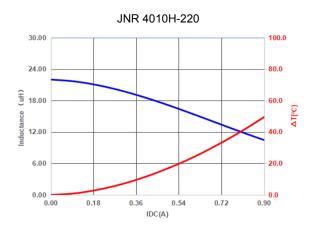












Appearance criterion

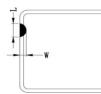
1 . Core chipping

The appearance standard of the chipping size on top side, and bottom side ferrite core is listed below. Chip off is generated during molding and manufacturing process.

Chip off acceptance limits subjected to the product size.

Our current Defect limit is based on the IPC-A-610.

Some chip off does not impact the product function, see the IPC standard 1 & 2.

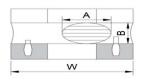


L	\leq 50 % of the length
W	\leq 25 % of the width

Defects usually occur at the corners and edges of the product, There will be a slight defect black and rough, but not exposed copper, and does not affect the product performance and reliability.

2 Void appearance tolerance Limit

Size of voids occurring to coating resin is specified below.



Exposed wire tolerance limit of coating resin part on product side. Size of exposed wire occurring to coating resin is specified below.

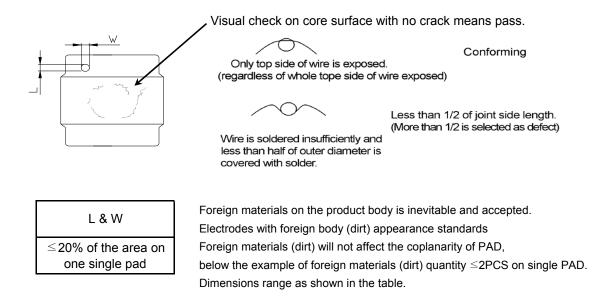
- 1. Width direction (dimension a) : Acceptable when $a \leq w/2$.
- 2. Length direction (dimension b) : Dimension b is not specified.
- 3. The total area of exposed wire occurring to each sides is not greater than 50% of coating resin area, and is acceptable.

3 . External appearance criterion for exposed wire

Exposed winding wire at the secondary side is regarded as qualified product.

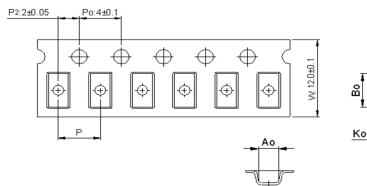


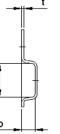
4、 Electrode appearance criterion for exposed wire

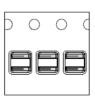




Packaging Information • Reel Dimension 6 Δ ഫ 13 "x12mm B(mm) C(mm) D(mm) Туре A(mm) 13"x12mm 12±1.5 100±0.5 13.2±0.5 330±0.5 • Tape Dimension







Bottom View

Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	t(mm)
4.50±0.1	4.35±0.1	1.55±0.1	8.0±0.10	0.25±0.05

• Packaging Quantity

Size	Reel
JNR 4010H	5000

• Tearing Off Force

Top cover tape

The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-D-2008 of 4.11 standard).

Tearing Speed Room Temp.		Room Humidity	Room atm	
mm	(°C)	(%)	(hPa)	
300±10%	5~35	45~85	860~1060	

Application Notice

· Storage Conditions(component level)

To maintain the solderability of terminal electrodes:

- 1. Products meet IPC/JEDEC J-STD-020E standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40 $^\circ\!\mathrm{C}$ and 60% RH.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.

Transportation

- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.