



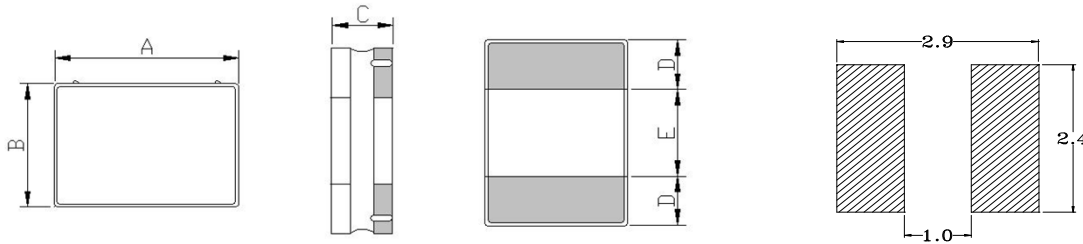
PRODUCT IDENTIFICATION

JNR **252008** **R** **-** **2R2** **M**
 | | | | |
Type **Size** **Lead Free** **Inductance** **Tol.**

FEATURES

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommended PC Board Pattern

Part No.	Size (mm)				
	A	B	C	D	E
JNR 252008R	2.5 -0.1/+0.2	2.0 -0.1/+0.2	0.8 Max	0.75 ref	1.00 ref

SERIES LIST

No.	Part No.	L (μH)	TOL. (%)	RDC (Ω)		I sat (A)		I rms (A)		Glue
				Max.	Typ.	Max.	Typ.	Max.	Typ.	
1	JNR 252008R-R24M	0.24	±20	0.042	0.035	4.80	5.30	4.00 (1) 4.20 (2)	4.50 (1) 4.70 (2)	magnetic powder
2	JNR 252008R-R33M	0.33	±20	0.055	0.040	4.30	4.80	3.50 (1) 3.90 (2)	3.90 (1) 4.30 (2)	magnetic powder
3	JNR 252008R-R47M	0.47	±20	0.060	0.045	4.00	4.50	3.30 (1) 3.70 (2)	3.70 (1) 4.10 (2)	magnetic powder
4	JNR 252008R-R68M	0.68	±20	0.075	0.060	3.50	4.00	3.00 (1) 3.20 (2)	3.50 (1) 2.50 (2)	magnetic powder
5	JNR 252008R-1R0M	1.00	±20	0.090	0.070	2.80	3.20	2.50 (1) 2.80 (2)	2.80 (1) 3.20 (2)	magnetic powder
6	JNR 252008R-1R5M	1.50	±20	0.127	0.105	2.60	2.80	2.10 (1) 2.30 (2)	2.30 (1) 2.50 (2)	magnetic powder
7	JNR 252008R-2R2M	2.20	±20	0.180	0.150	1.80	2.00	1.60 (1) 1.80 (2)	1.80 (1) 2.20 (2)	magnetic powder
8	JNR 252008R-3R3M	3.30	±20	0.260	0.220	1.30	1.60	1.30 (1) 1.50 (2)	1.60 (1) 1.80 (2)	magnetic powder
9	JNR 252008R-4R7M	4.70	±20	0.430	0.360	1.20	1.50	1.00 (1) 1.10 (2)	1.20 (1) 1.30 (2)	magnetic powder

Note:

1. Test Frequency: 1MHz /1V
2. All test data referenced to 25°C ambient
3. Isat : Based on inductance change ($\Delta L/L0 : \leq 30\%$)
4. Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C}.$) Max

Measurement board data

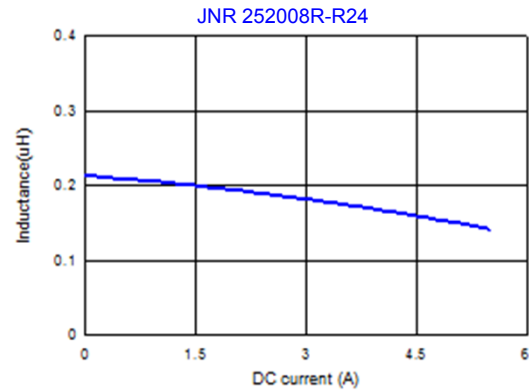
Irms1

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μ m



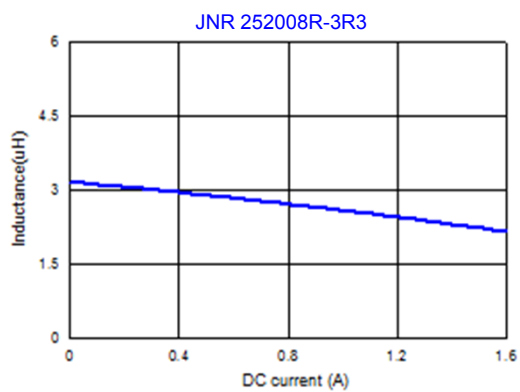
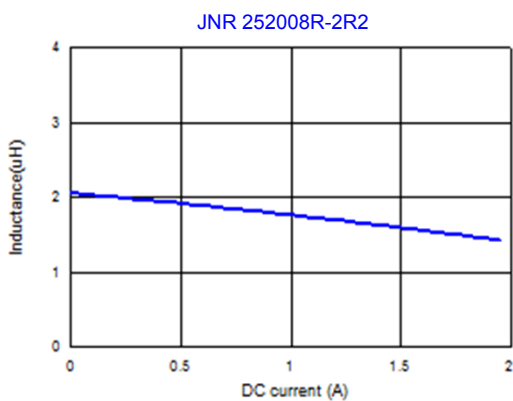
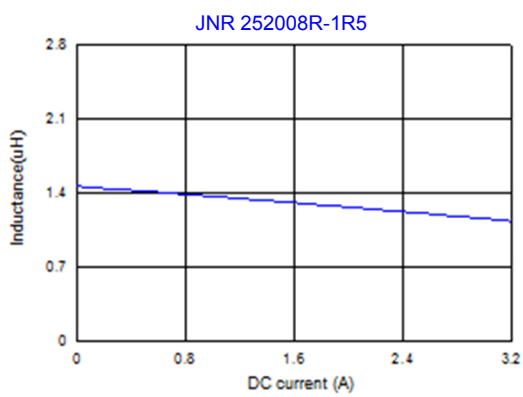
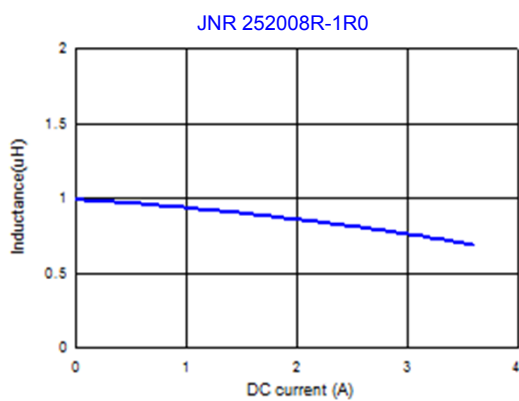
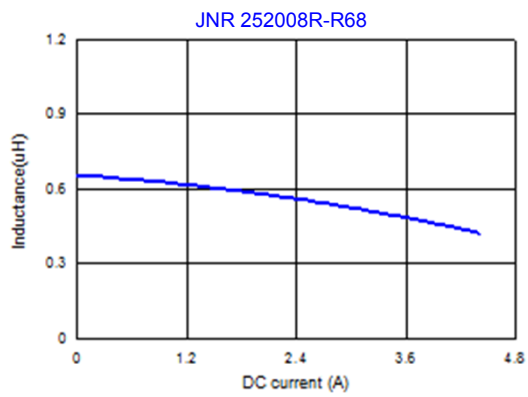
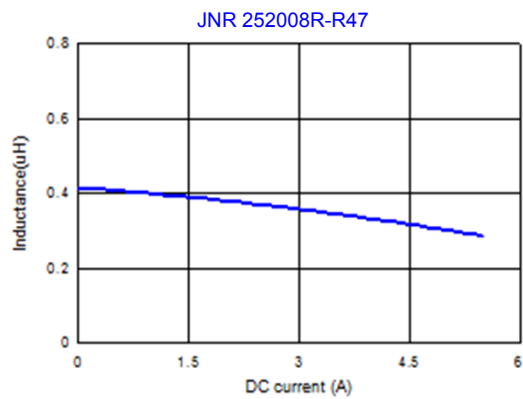
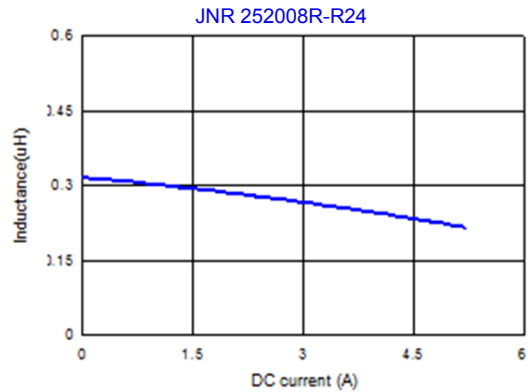
Irms2

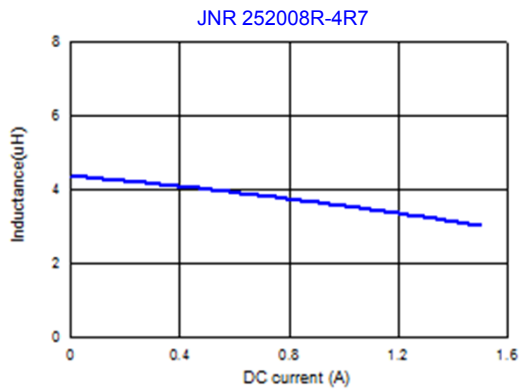
Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

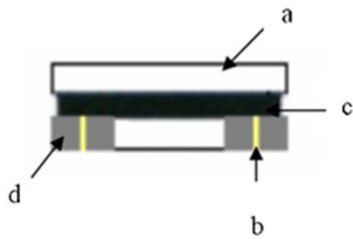
Pattern dimensions: 45 X 45 mm (Double side board)

Pattern thickness : 70 μ m

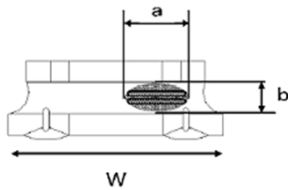




Materials



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

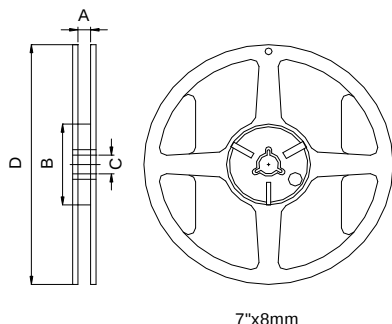


Appearance of exposed wire tolerance limit :

- 1.Width direction (dimension a) : Acceptable when $a \leq w/2$
Nonconforming when $a > w/2$
- 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.

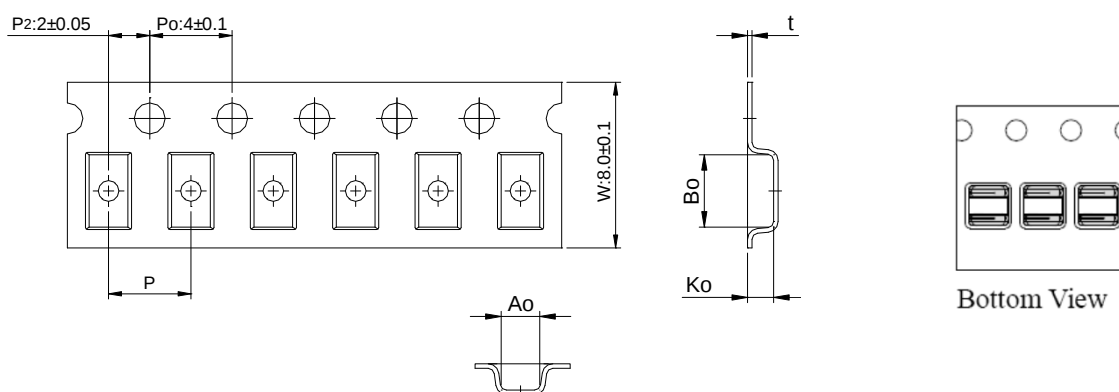
Packaging Information

• Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	8.4 $\pm$ 1.0	50 min.	13 $\pm$ 0.8	178 $\pm$ 2

• Tape Dimension



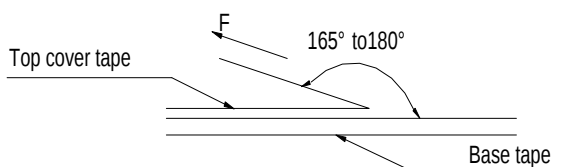
Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	t(mm)
2.45 $\pm$ 0.1	2.85 $\pm$ 0.1	1.40 $\pm$ 0.1	4.0 $\pm$ 0.1	0.23 $\pm$ 0.05

• Packaging Quantity

Size	Reel
JNR 252008R	2000

• Tearing Off Force

The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions



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