

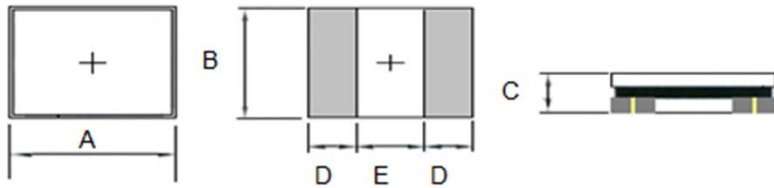
PRODUCT IDENTIFICATION

JNR	20161	U	-	3R3	M
Type	Size	Material		Tol.	
				Inductance	

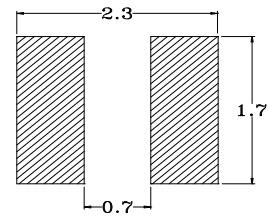
FEATURES

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
JNR201610U	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0 max.	0.60 ref.	0.80 ref.

SERIES LIST

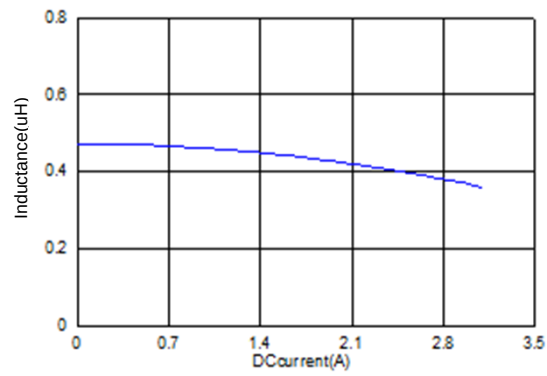
No.	Part No.	L (μ H)	Tol.	Test Frequency (Hz)	RDC (Ω) $\pm 20\%$	Isat (A)		Irms (A)	
						typ.	Max.	typ.	Max.
1	JNR 201610U-R47N	0.47	$\pm 30\%$	1M/0.1V	0.044	3.00	2.70	2.60	2.35
2	JNR 201610U-R68N	0.68	$\pm 30\%$	1M/0.1V	0.062	2.45	2.00	2.25	2.05
3	JNR 201610U-1R0N	1.0	$\pm 30\%$	1M/0.1V	0.080	1.95	1.80	1.75	1.60
4	JNR 201610U-1R5N	1.5	$\pm 30\%$	1M/0.1V	0.130	1.65	1.46	1.40	1.26
5	JNR 201610U-2R2M	2.2	$\pm 20\%$	1M/0.1V	0.145	1.45	1.26	1.35	1.20
6	JNR 201610U-3R3M	3.3	$\pm 20\%$	1M/0.1V	0.245	1.05	0.90	1.05	0.95
7	JNR 201610U-4R7M	4.7	$\pm 20\%$	1M/0.1V	0.360	0.85	0.77	1.00	0.90
8	JNR 201610U-6R8M	6.8	$\pm 20\%$	1M/0.1V	5.000	0.80	0.72	0.70	0.55
9	JNR 201610U-100M	10	$\pm 20\%$	1M/0.1V	0.720	0.62	0.55	0.50	0.45
10	JNR 201610U-150M	15	$\pm 20\%$	1M/0.1V	1.400	0.50	0.45	0.40	0.36
11	JNR 201610U-180M	18	$\pm 20\%$	1M/0.1V	1.800	0.45	0.40	0.38	0.34
12	JNR 201610U-220M	22	$\pm 20\%$	1M/0.1V	2.000	0.43	0.38	0.30	0.27

Note:

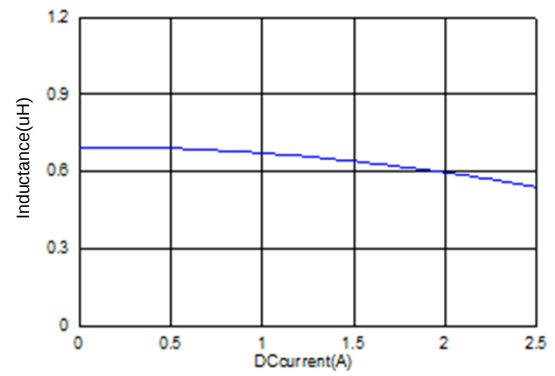
1. All test data referenced to 25°C ambient
2. Isat : Based on inductance change ($\Delta L/L0 : \leq 30\%$)
3. Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C}.$)

Typical Performance Curves

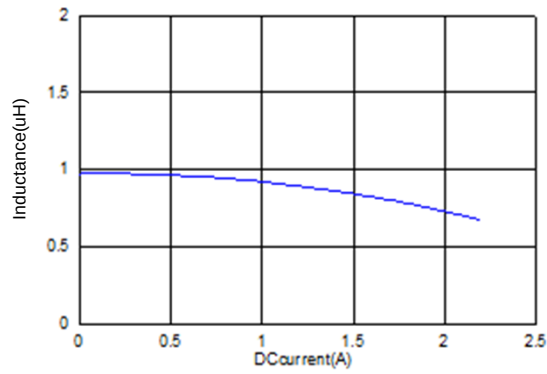
JNR 201610U-R47



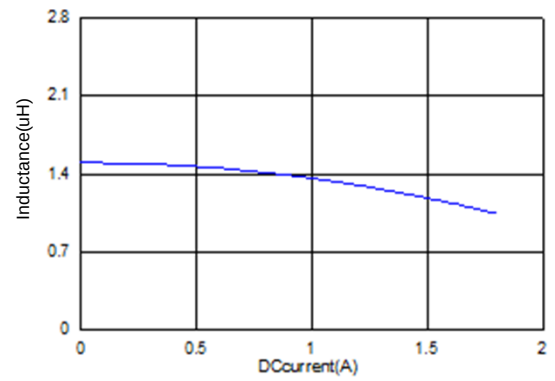
JNR 201610U-R68



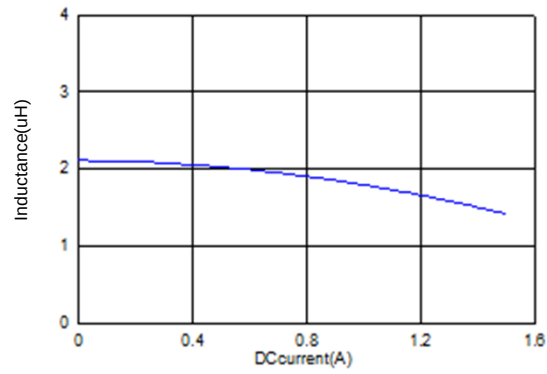
JNR 201610U-1R0



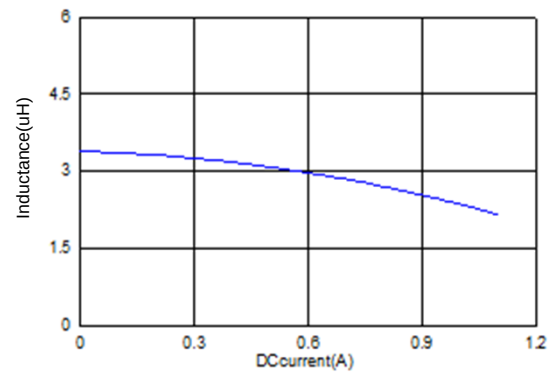
JNR 201610U-1R5



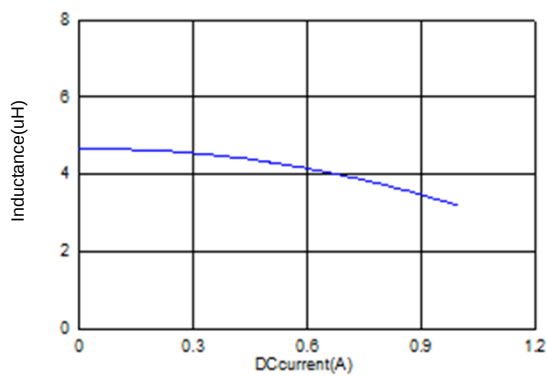
JNR 201610U-2R2



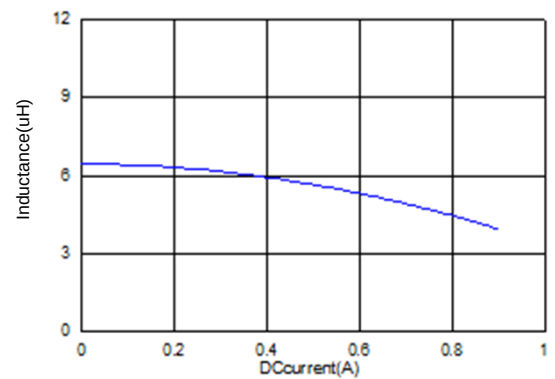
JNR 201610U-3R3



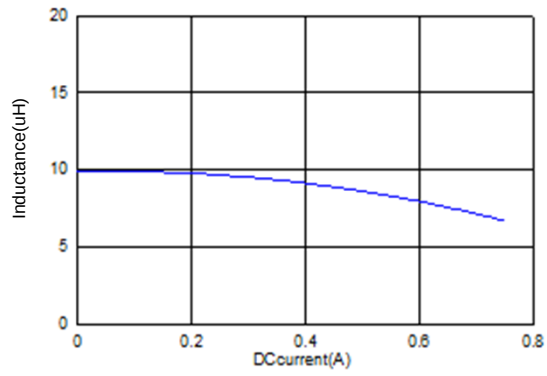
JNR 201610U-4R7



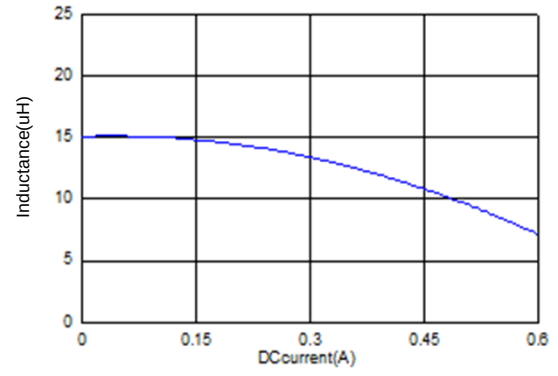
JNR 201610U-6R8



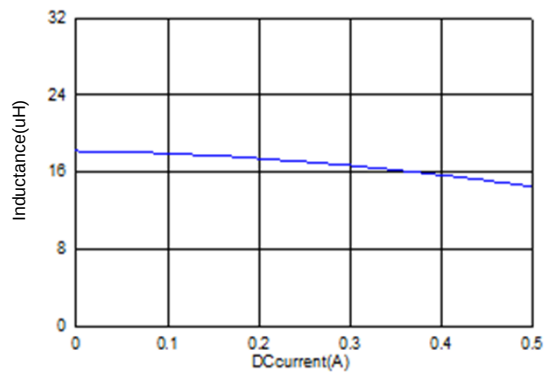
JNR 201610U-100



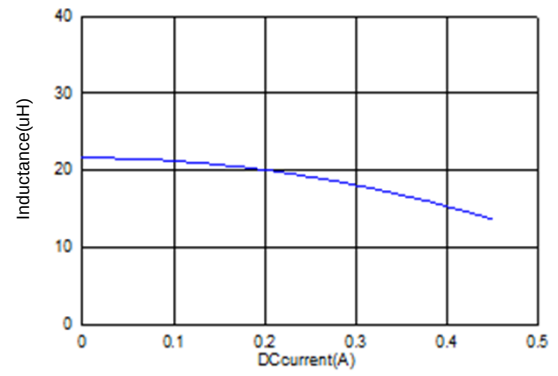
JNR 201610U-150



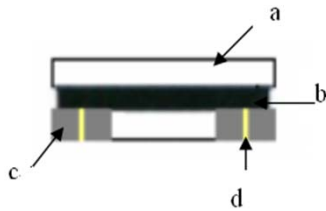
JNR 201610U-180



JNR 201610U-220



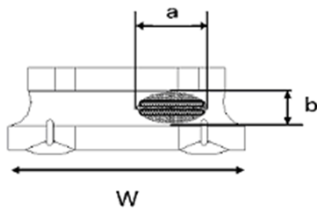
■ Materials



No.	Description	Specification
a.	Core	Ferrite Core
b.	Glue	Epoxy or Epoxy with magnetic powder
c.	Termination	Tin (Pb Free)
d.	Wire	Enameled Copper Wire

Void appearance tolerance Limit

Size of voids occurring to coating resin is specified below.

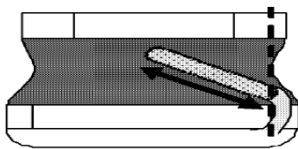


Appearance of exposed wire tolerance limit :

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.

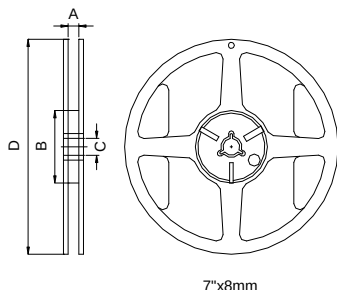
External appearance criterion for exposed wire

Exposed end of the winding wire at the secondary side should be 2mm and below.



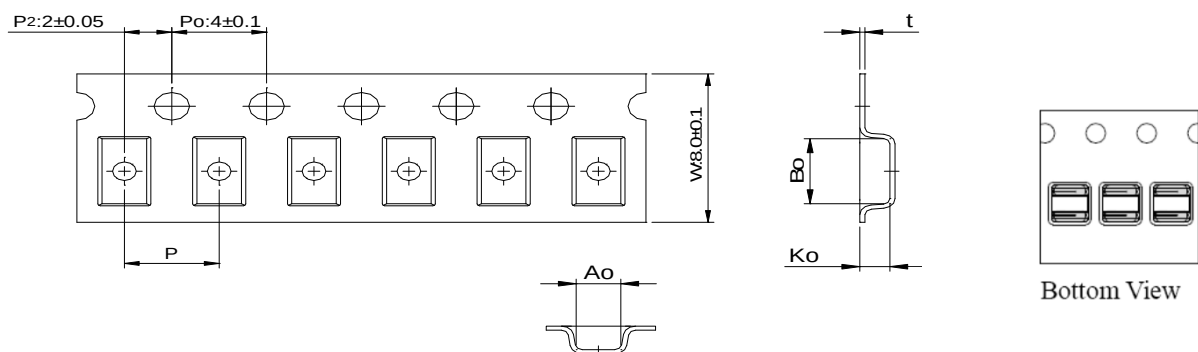
Packaging Information

• Reel Dimension



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

• Tape Dimension



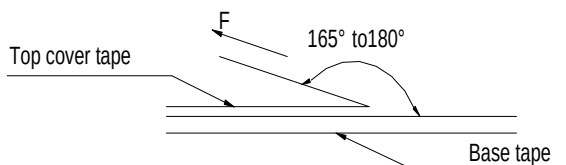
Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	t(mm)
2.0±0.10	2.5±0.10	1.05±0.10	4.0±0.10	0.23±0.05

• Packaging Quantity

Size	Reel
JNR 201610U	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