

**■ Dimensions: (mm)**

Part No.	A	B	C	D	E
JNR 3012	3.0 ± 0.1	3.0 ± 0.1	1.2 Max.	0.9 ± 0.2	1.9 ± 0.2

**■ Series List**

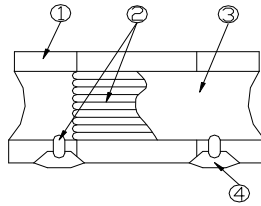
No.	Part No.	L ( $\mu$ H)	SRF Min. (MHz)	RDC $\pm 20\%$ ( $\Omega$ )	Isat Max. (mA)	Irms Max. (mA)
1	JNR 3012-1R0N-MH	1.0	111	0.048	2200	1710
2	JNR 3012-1R5N-MH	1.5	95	0.055	1700	1600
3	JNR 3012-2R2M-MH	2.2	78	0.075	1500	1370
4	JNR 3012-3R3M-MH	3.3	61	0.100	1200	1210
5	JNR 3012-4R7M-MH	4.7	50	0.130	1000	1060
6	JNR 3012-6R8M-MH	6.8	43	0.190	850	590
7	JNR 3012-100M-MH	10	32	0.270	730	720
8	JNR 3012-150M-MH	15	26	0.450	530	570
9	JNR 3012-220M-MH	22	22	0.630	500	500

1. Test Frequency : 100KHz
2. Tolerance : N  $\pm$  30% ; M  $\pm$  20%
3. Isat : The value of current causes a 30% inductance reduction from initial value.
4. Irms : The value of current causes a 40°C temperature rise.
5. Rated Current: Either Isat or Irms whichever is smaller.
6. Operating Temperature Range : -25°C to +120°C (Including self-temperature rise)
7. Storage Temp. Range : -40°C to +85°C

**■ PACKAGE**

Type	JNR 3012
Q'TY/Reel	2000

■ **Structural Drawing**

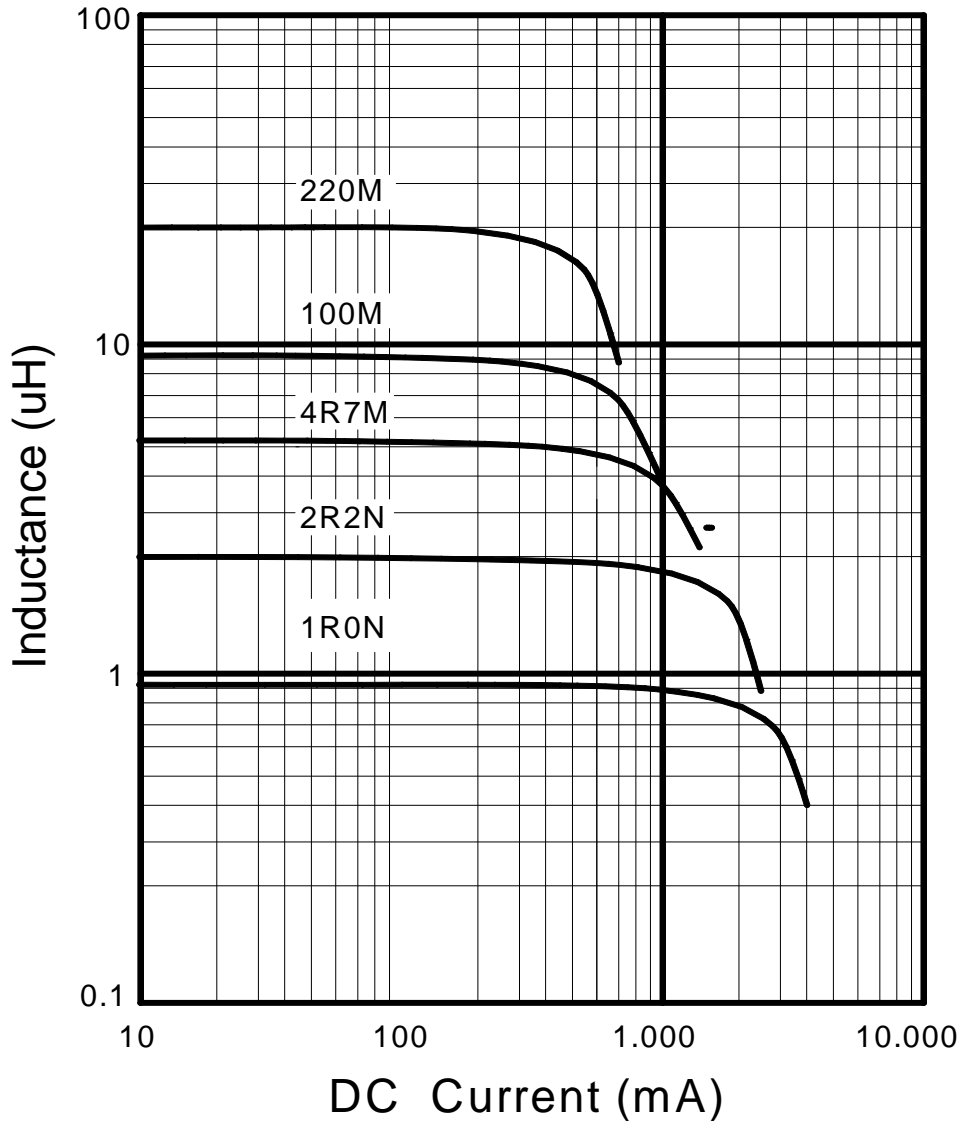


(Magnetic Shielded Type)

- |                       |   |          |
|-----------------------|---|----------|
| ① Ferrite core.       | Ni-Zn ferrite                                   |          |
| ② Winding wire        | Polyurethane-copper wire                        |          |
| ③ Over-coating resin. | Epoxy resin, containing ferrite powder          |          |
| ④ Electrode           | External electrode (substrate)                  | Ag       |
|                       | External electrode (base plating)               | Ni-Sn    |
|                       | External electrode (top surface solder coating) | Sn-Ag-Cu |

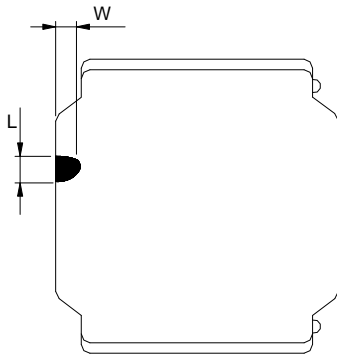
■ **Electrical Curve**

**Inductance vs. DC Current**



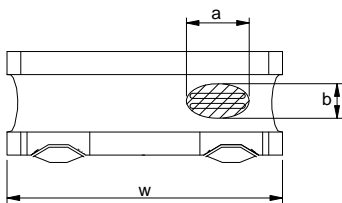
■ **Core Chipping**

The appearance standard of the chipping size in top side, of bottom side ferrite Core is following dimension



L	W
0.6mmMax.	0.6mmMax.

■ **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  $a \leq w/2$   
Nonconforming when  $a > w/2$
- ② Length direction (dimension b): Dimension b is not specified.
- ③ When total area of exposed wire occurring to each sides is not greater than 50% of coating resin area, that is acceptable.