

**Dimensions: (mm)**

Part No.	A	B	C	D	E
JNR 4012	4.0 ± 0.2	4.0 ± 0.2	1.2 Max.	1.1 ± 0.2	2.5 ± 0.2

**Series List**

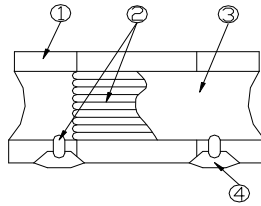
No.	Part No.	SYMBOL	L	SRF	RDC	Isat	Irms
		L	(μH)	Min. (MHz)	±20% (Ω)	Max. (mA)	Max. (mA)
1	JNR 4012-1R0N-MS	A	1.0	100	0.042	2800	2200
2	JNR 4012-2R2M-MS	C	2.2	70	0.060	1650	1900
3	JNR 4012-3R3M-MS	E	3.3	60	0.070	1400	1700
4	JNR 4012-4R7M-MS	H	4.7	45	0.095	1200	1500
5	JNR 4012-6R8M-MS	I	6.8	35	0.125	900	1300
6	JNR 4012-100M-MS	K	10	30	0.170	800	1100
7	JNR 4012-150M-MS	M	15	24	0.260	650	750
8	JNR 4012-220M-MS	N	22	18	0.400	500	620

- 1.Test Frequency : 100KHz
- 2.Tolerance : N ± 30% ; M ± 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 +125°C (Including self-temperature rise)
- 7.Storage Temp. Range : -40°C to +85°C

**PACKAGE**

Type	JNR 4012
Q'TY/Reel	4500

■ **Structural Drawing**

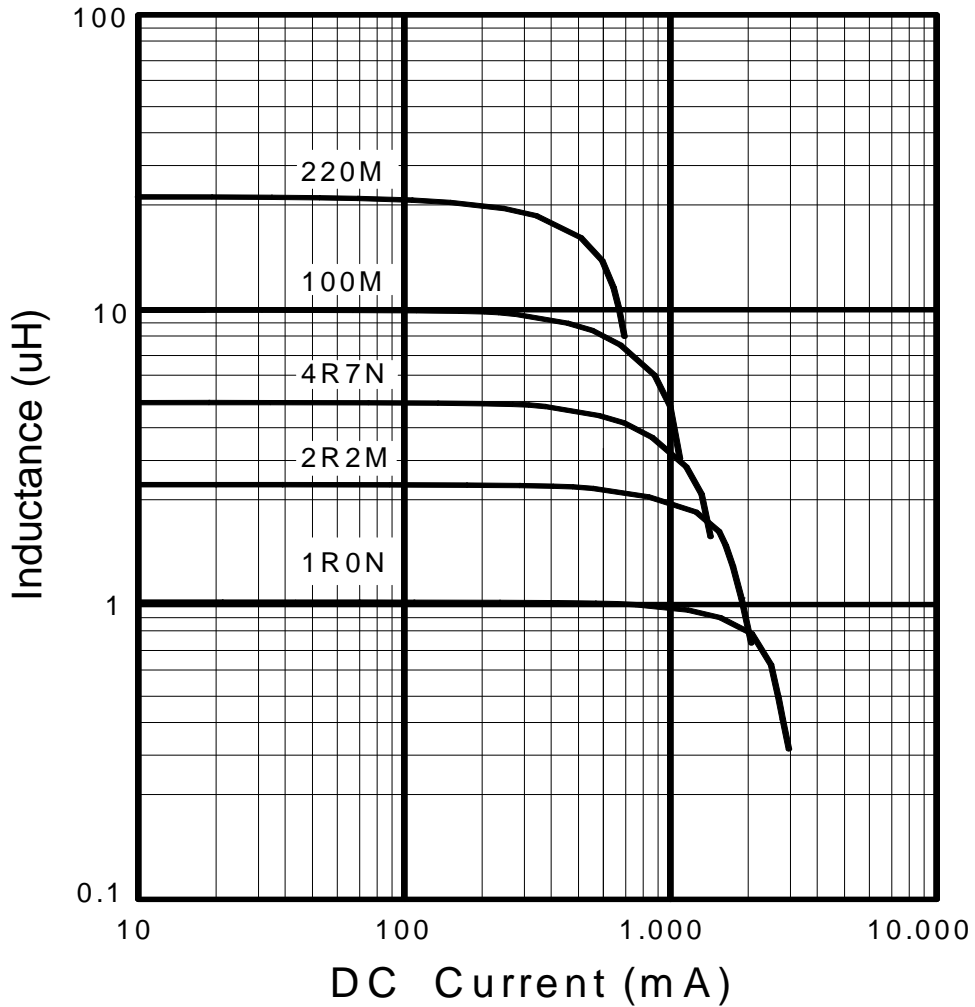


(Magnetic Shielded Type)

- |                       |   |          |
|-----------------------|---|----------|
| 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 |

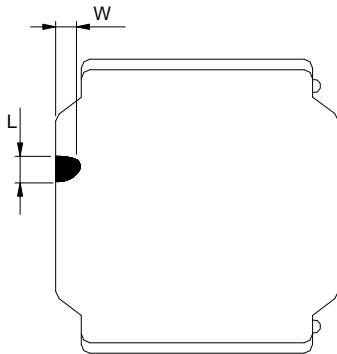
■ **Electrical Curve**

Inductance vs. DC Current



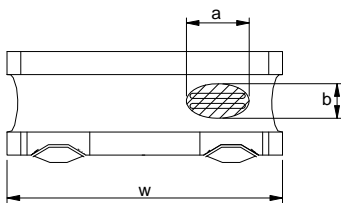
■ **Core Chipping**

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



L	W
1.0mmMax.	1.0mmMax.

■ **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.