



## Ni-Zn SOFT FERRITE CORES-RH-Series

### RH-Series For EMI suppression

### Features

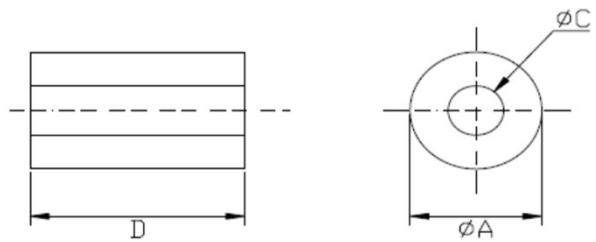
1. One hole rod type
2. Excellent heat resistance.
3. Available in various sizes & materials.
4. High reliability



### Applications

- E.M.I. Suppression on round cable.
1. Computer and peripheral products
  2. Consumer electronic products
  3. Communication electronic products
  4. Measuring instruments

### Shapes and Dimensions (mm)



### Product Identification

M2L RH 4×5×2 - PF

M2L:Material Type CODE

RH: SERIES NAME

4: DIMENSION SIZE CODE=A

5: DIMENSION SIZE CODE=D

2: DIMENSION SIZE CODE=C

PF:Pb-Free



Ni-Zn SOFT FERRITE CORES

MATERIAL CHARACTERISTICS

Material	Practical Frequency	Initial permeability $\mu_{iac}$	Relative loss factor $\tan\sigma/\mu_{iac}$	Temperature coefficient $\alpha_{\mu}$	Saturation Flux density Bm	Remanence Br	Coercivity Hc	Curie Temperature Tc	Resistivity $\rho$	Density d
	MHz	$\mu_{iac}$	$\times 10^{-6}$	$\times 10^{-6}/^{\circ}\text{C}$	Gauss	Gauss	Oersted	$^{\circ}\text{C}$	$\Omega \text{ cm}$	g/cm
M2L	0.1-1.5	700±25%	30(0.1)/150(1.5)	3	3100	1600	0.25	120	$10^7$	4.9
M3L	0.01-0.5	1500±25%	10(0.01)/60(0.5)	3	2800	1600	0.20	100	$10^7$	4.8
M4L	0.05-0.5	1000±25%	10(0.05)/45(0.5)	7	3500	1600	0.23	150	$10^7$	5.0
M5D	0.05-3.0	450±25%	15(0.01)/65(3.0)	20	4000	4000	0.30	180	$10^7$	5.1
M6D	0.1-2.0	500±25%	20(0.1)/90(2.0)	25	3900	2400	0.30	220	$10^7$	5.0
M11D	0.1-2.0	450±25%	15(0.05)/80(2.0)	25	4000	2400	0.30	200	$10^7$	5.0
M13D	0.05-2.0	400±25%	15(0.05)/80(2.0)	25	4100	2400	0.30	200	$10^7$	5.0
M5H	1.0-50	55±25%	150(1.0)/500(50)	80	3900	4000	5.50	300	$10^7$	4.8
M4S	1.0-30	650±25%	13(1.0)/90(5.0)	30	3900	4000	0.45	180	$10^7$	4.9
M5S	0.05-2.0	600±25%	15(0.05)/90(2.0)	25	3800	2500	0.40	180	$10^7$	4.9
M11F	0.05-1.0	800±25%	10(0.05)/60(1.0)	20	3500	2000	0.40	180	$10^7$	4.9



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### Electrical Characteristics

Part Number	Dimensions (mm)			Typical Impedance( $\Omega$ )	
	A	D	C	25MHz	100MHz
RH 2.5x4.5x0.7	2.5 $\pm$ 0.15	4.5 $\pm$ 0.20	0.7 $\pm$ 0.10	20	25
RH3.5x6.0x15	3.5 $\pm$ 0.1	6.0 $\pm$ 0.20	1.5 $\pm$ 0.10	30	38
RH6.0x10.0x3.0	6 $\pm$ 0.2	10 $\pm$ 0.3	3 $\pm$ 0.15	90	145
RH6.00x9.00x4.00	6 $\pm$ 0.3	9 $\pm$ 0.3	4 $\pm$ 0.2	50	100
RH6.8x14.0x4.0	6.8 $\pm$ 0.3	14 $\pm$ 0.3	4 $\pm$ 0.2	25	45
RH7.3x10.0x5.0	7.3 $\pm$ 0.3	10 $\pm$ 0.4	5 $\pm$ 0.2	55	85
RH8.0x7.0x4.0	8 $\pm$ 0.3	7 $\pm$ 0.3	4 $\pm$ 0.2	35	80
RH8.0x10.0x3.0	8 $\pm$ 0.3	10 $\pm$ 0.3	3 $\pm$ 0.2	40	90
RH8.0x10.0x6.0	8 $\pm$ 0.3	10 $\pm$ 0.3	6 $\pm$ 0.2	65	120
RH9.5x10.0x5.0	9.5 $\pm$ 0.3	10 $\pm$ 0.3	5 $\pm$ 0.2	60	95
RH9.5x18.0x4.5	9.5 $\pm$ 0.3	18 $\pm$ 0.3	4.5 $\pm$ 0.2	55	110
RH10.0x10.0x6.0	10 $\pm$ 0.3	10 $\pm$ 0.3	6 $\pm$ 0.2	50	85
RH10.0x15.0x4.5	10 $\pm$ 0.4	15 $\pm$ 0.3	4.5 $\pm$ 0.3	35	85
RH10.0x20.0x5.5	10 $\pm$ 0.4	20 $\pm$ 0.4	5.5 $\pm$ 0.3	70	150
RH12.0x20.0x5.6	12 $\pm$ 0.4	20 $\pm$ 0.5	5.6 $\pm$ 0.3	110	190
RH12.7x15.0x7.9	12.7 $\pm$ 0.4	15 $\pm$ 0.4	7.9 $\pm$ 0.3	55	105
RH14.0x14.0x10.0	14 $\pm$ 0.4	14 $\pm$ 0.4	10 $\pm$ 0.4	35	90
RH14.2x28.5X7.0	14.2 $\pm$ 0.5	28.5 $\pm$ 0.7	7 $\pm$ 0.3	140	250
RH16.0x16.0x8.0	16 $\pm$ 0.5	16 $\pm$ 0.4	8 $\pm$ 0.3	75	145
RH16.0x28.0x9.0	16 $\pm$ 0.5	28 $\pm$ 0.7	9 $\pm$ 0.3	110	185
RH18.6x28.5x10.1	18.6 $\pm$ 0.6	28.5 $\pm$ 0.7	10.1 $\pm$ 0.4	100	190
RH19.7x28.5x11.7	19.7 $\pm$ 0.6	28.5 $\pm$ 0.7	11.7 $\pm$ 0.4	100	190
RH25.9x28.5x12.9	25.9 $\pm$ 0.6	28.5 $\pm$ 0.7	12.9 $\pm$ 0.4	125	225
RH25.9x28.5x14.0	25.9 $\pm$ 0.6	28.5 $\pm$ 0.7	14 $\pm$ 0.4	115	215
RH28.0x28.0x13.8	28 $\pm$ 0.7	28.5 $\pm$ 0.7	13.8 $\pm$ 0.4	120	230

### Test condition

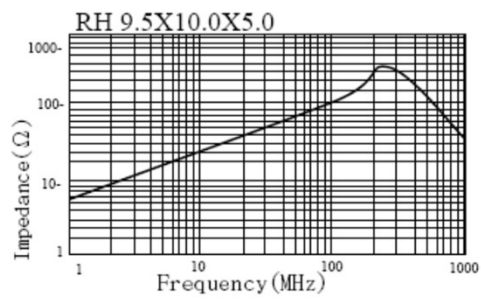
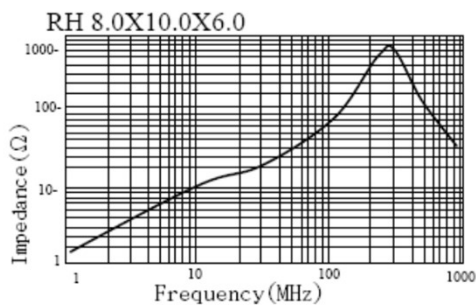
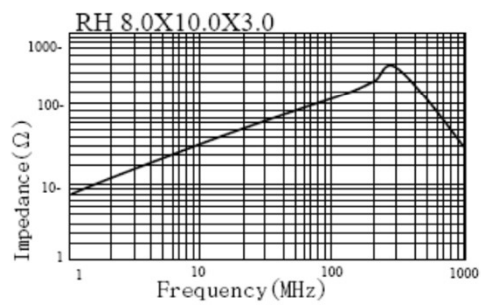
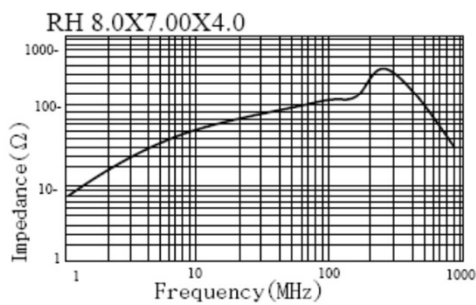
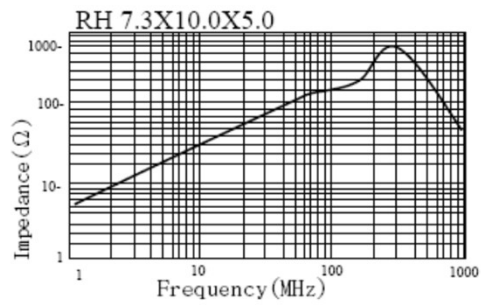
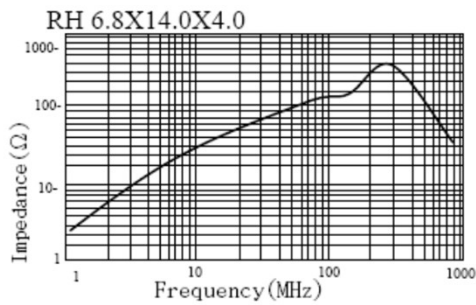
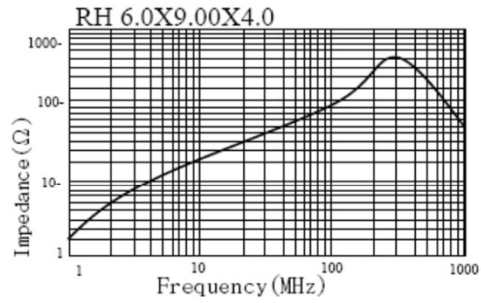
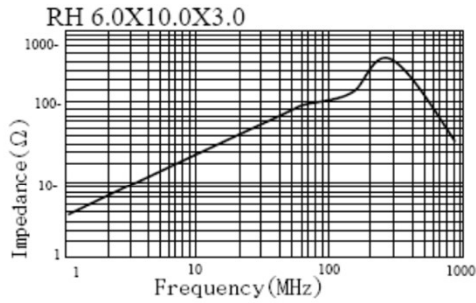
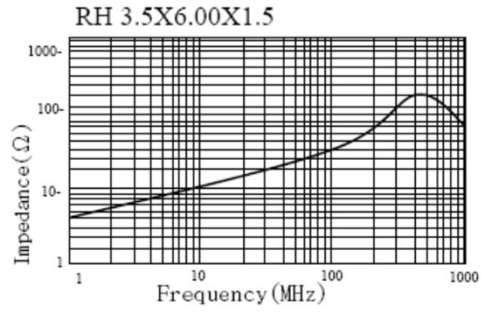
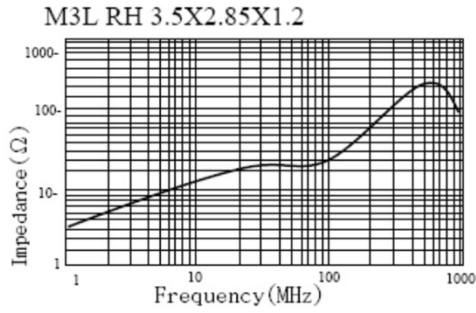
Use copper line (length =10mm,outside diameter =0.65) to test ferrite cores when the test frequency in 25MHz and 100MHz



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### Impedance Vs Frequency

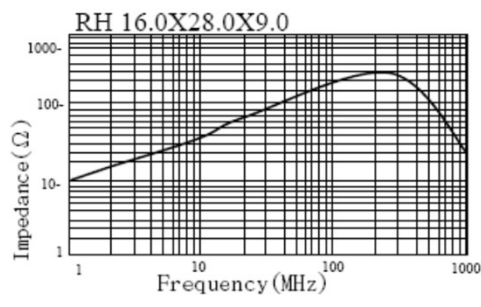
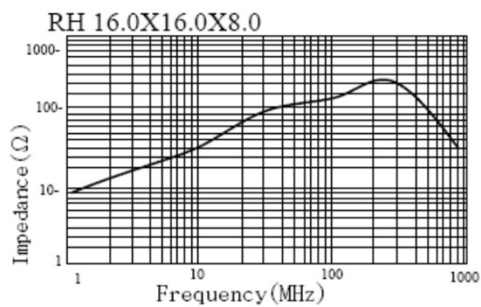
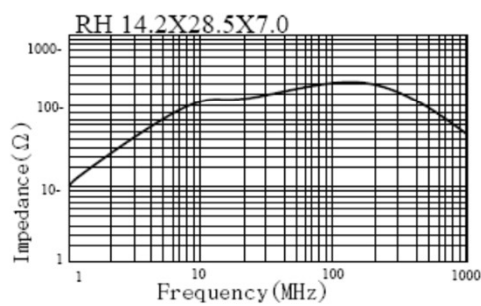
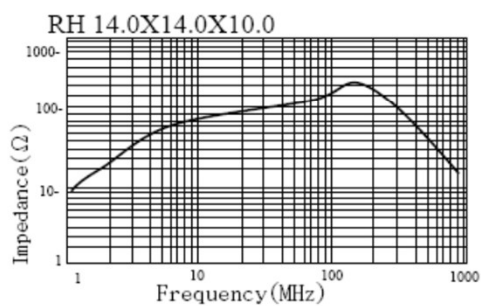
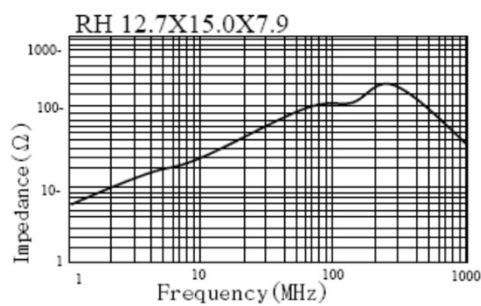
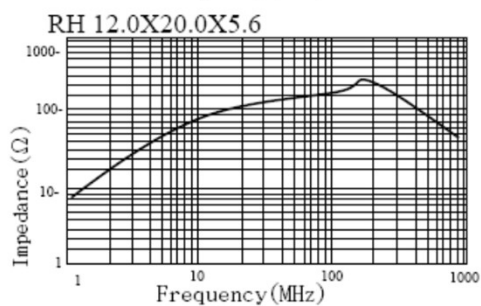
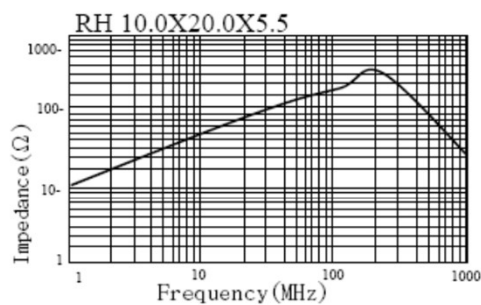
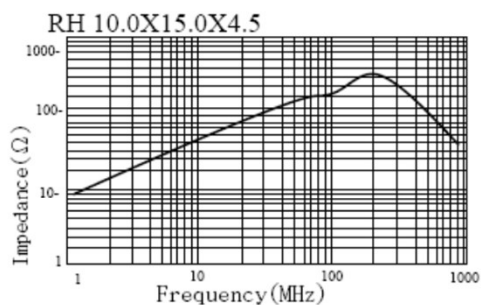
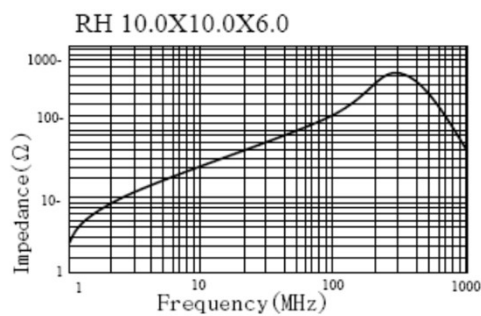
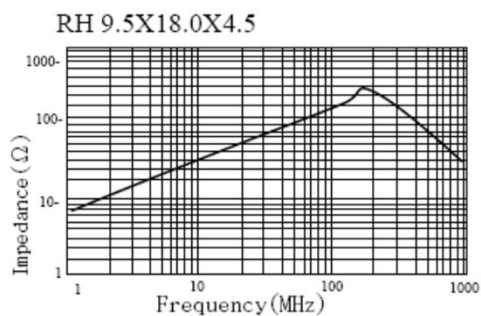




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### Impedance Vs Frequency





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