

SUNLEI TECHNOLOGY CORP.

Ni-Zn SOFT FERRITE CORES-RH-Series

RH-Series For EMI suppression

Features

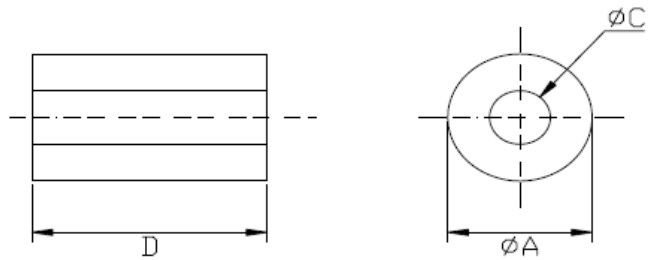
1. One hole rod type
2. Excellent heat resistance.
3. Available in various sizes & materials.
4. High reliability



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

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Ni-Zn SOFT FERRITE CORES

MATERIAL CHARACTERISTICS

Material	Practical Frequency	Initial permeability μ_{iac}	Relative loss factor $\tan \sigma / \mu_{iac}$	Temperature coefficient $\alpha \mu \gamma$	Saturation Flux density Bm	Remanence Br	Coercivity Hc	Curie Temperature Tc	Resistivity ρ	Density d
	MHz	μ_{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(Ω)	
	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

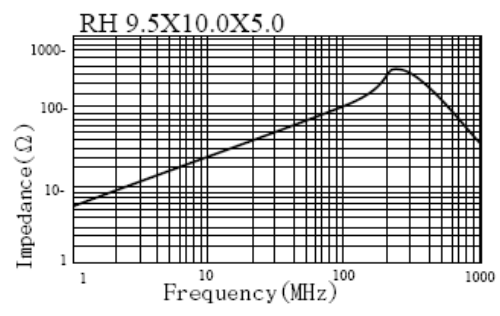
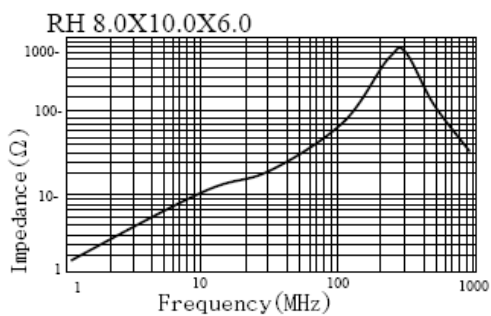
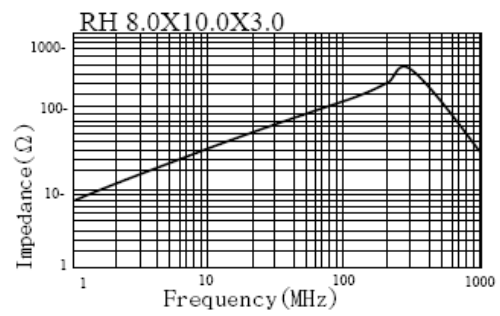
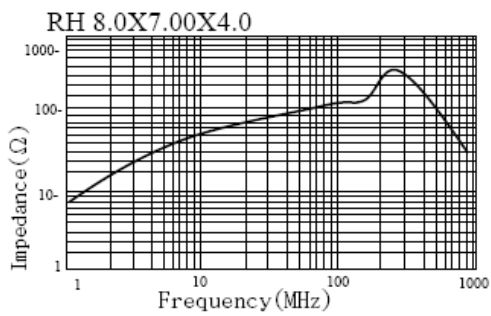
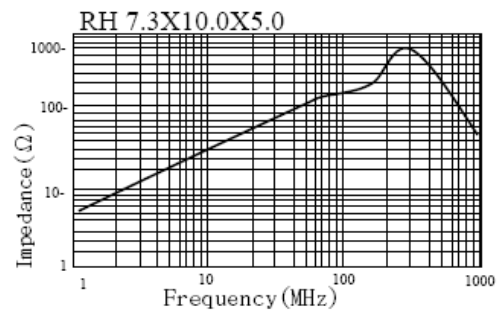
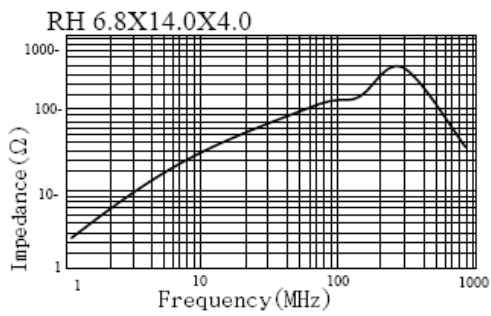
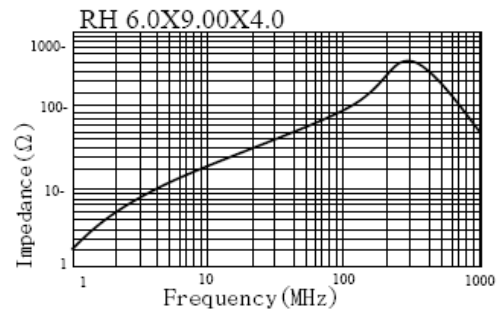
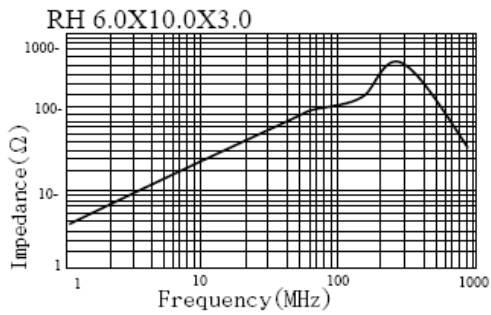
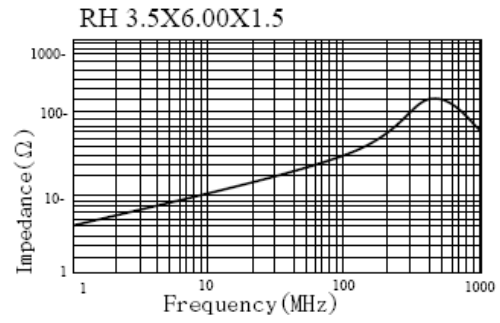
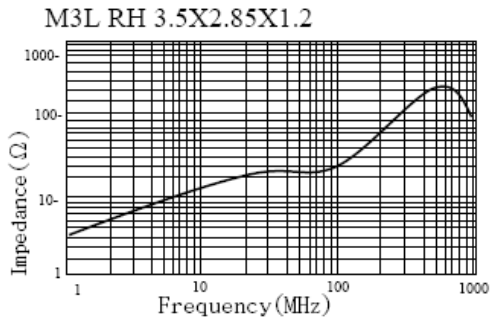
Test condition

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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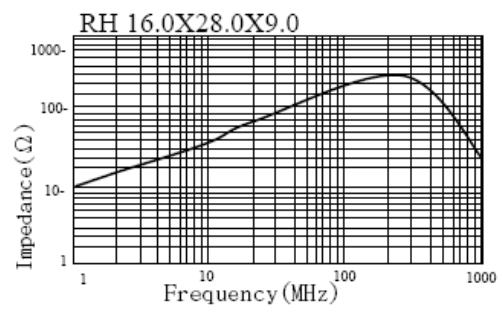
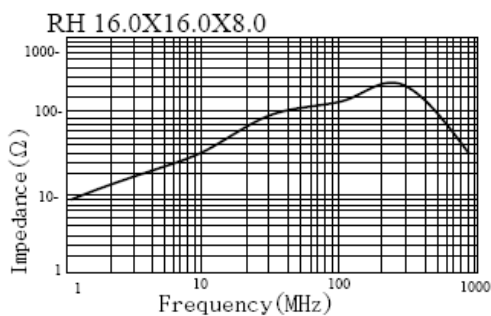
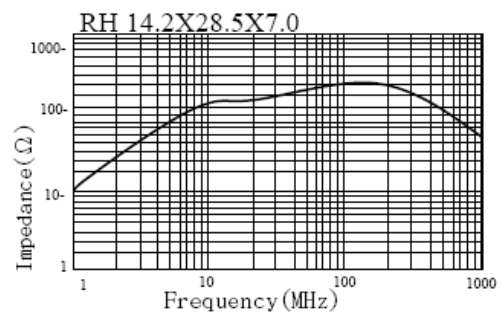
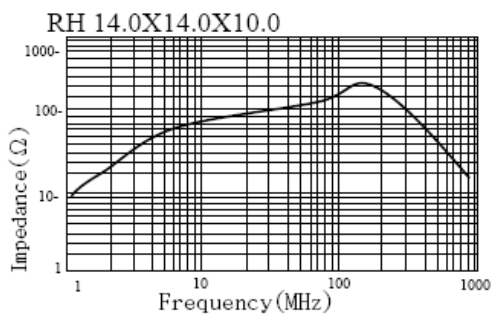
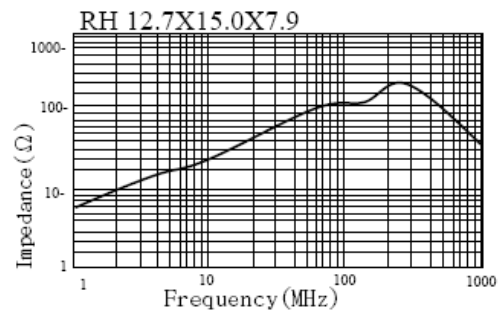
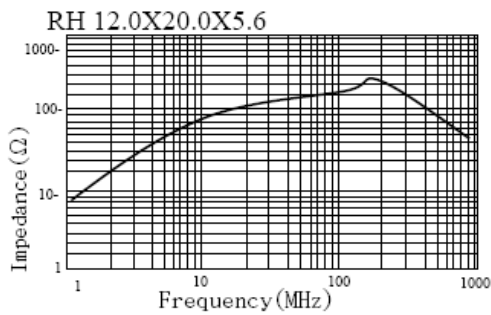
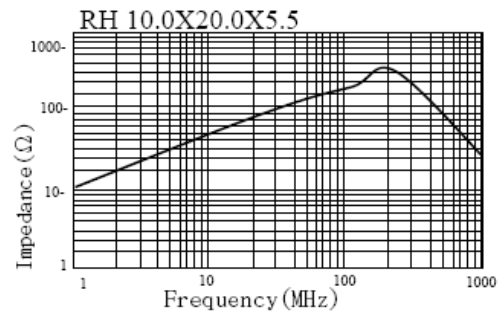
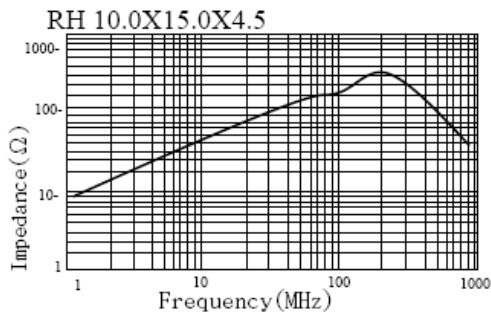
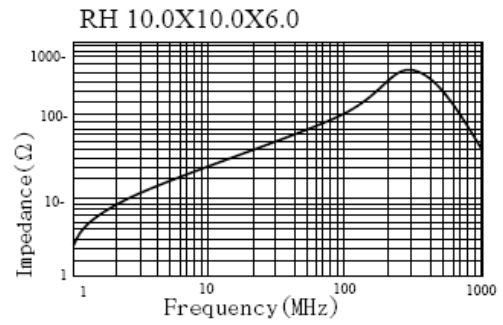
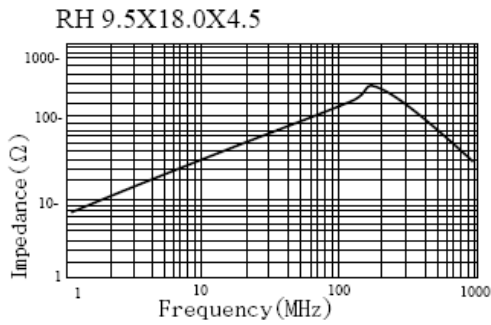
Impedance Vs Frequency



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