

Ferrite Cores for EMI Suppression For Round Cable

T Series(Toroidal)

FEATURES

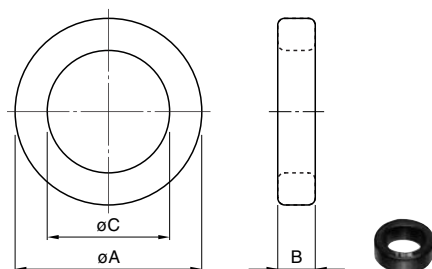
- Various shapes and materials are available for the round type cable. Moreover, winding the number of turns can easily do the noise suppression effects.

APPLICATIONS

Imaging devices, audio equipment, automotive electronics, telecommunication devices, office automation equipment, and digital interface various other cables.

- Absorption EMI and penetrating noise
- Prevent parasitic oscillation

SHAPES AND DIMENSIONS/CHARACTERISTICS



MATERIAL CHARACTERISTICS

Material	Initial permeability μ_i	Temperature factor of initial permeability $\alpha_{\text{air}} \times 10^{-6}/^{\circ}\text{C}$	Curie temperature $T_c(^{\circ}\text{C})$	Saturation magnetic flux density B_s (mT)	Electrical resistivity ρ ($\Omega \cdot \text{m}$)
HF70	1500	1 to 6	>100	280[H=1600A/m]	10^5
HF60	900	8 to 14	>130	300[H=1600A/m]	10^2
HF57	600	3 to 15	>150	370[H=4000A/m]	10^5
HF40	120	8 to 18	>250	410[H=4000A/m]	10^5
HF30	45	5 to 15	>300	320[H=4000A/m]	10^5

Part No.	Dimensions(mm) ^{*1}			Impedance Z (Ω)[at 23°C] ^{*2}					
	ϕA	B	ϕC	Material HF40		Material HF60		Material HF70	
				10MHz typ.	100MHz typ.	1MHz typ.	10MHz typ.	10MHz typ.	100MHz typ.
T8X4X4	8±0.2	4±0.2	4±0.2	7	60	—	—	21	36
T10X3X6	10±0.3	3±0.2	6±0.2	4.2	38	—	—	9.2	20
T10X5X5	10±0.3	5±0.3	5±0.25	—	—	—	—	23	39
T12X8X7.3	12±0.3	8±0.3	7.3±0.2	—	—	—	—	28	47
T20X10X12	20±0.4	10±0.3	12±0.3	10	65	11	31	34	58
T14X7X8	14±0.3	7±0.2	8±0.3	7.9	65	8	24	29	48
T16X8X12	16±0.4	8±0.3	12±0.3	6	48	—	—	18	31
T18X6X10	18±0.4	6±0.2	10±0.3	7.1	61	—	—	24	51
T18X10X10	18±0.4	10±0.3	10±0.3	14	90	12	36	36	69
T20X10X12	20±0.4	10±0.3	12±0.3	10	65	11	31	34	58
T22X6.5X14	22±0.4	6.5±0.3	14±0.3	7	53	—	—	20	39
T22X10X14	22±0.4	10±0.3	14±0.3	8.2	62	9	27	30	60
T25X13X15	25±0.4	13±0.3	15±0.3	11	93	14	40	45	80
T28X13X16	28±0.4	13±0.3	16±0.4	13	90	15	44	51	90
T29X7.5X19	29±0.4	7.5±0.3	19±0.5	—	—	—	—	23	47
T31X8X19	31±0.5	8±0.4	19±0.5	7.6	61	8	24	28	52
T31X13X19	31±0.5	13±0.3	19±0.5	14	90	13	39	45	80
T38X14X22	38	14	22	—	—	16	46	—	—
T48X15X30	48	15	30	—	—	15	43	—	—
T60X20X36	60	20	36	—	—	21	62	—	—

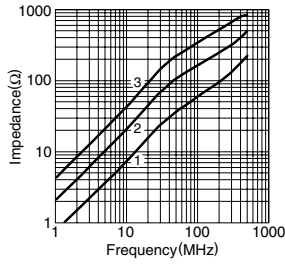
^{*1} Dimensional tolerance is measured on combination with Materials HF40 and HF70. For the item of Material HF70, Please contact us.

^{*2} — means that there is no item which corresponds to each Material.

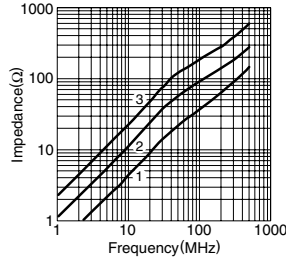
• All specifications are subject to change without notice.

TYPICAL ELECTRICAL CHARACTERISTICS
Z, R, X vs. FREQUENCY CHARACTERISTICS

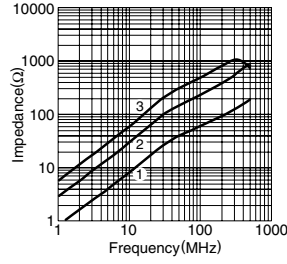
HF40T8X4X4



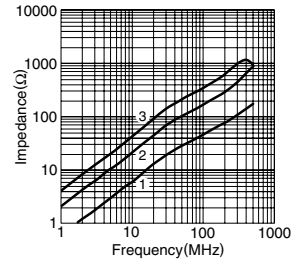
HF40T10X3X6



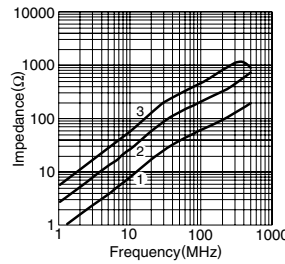
HF40T14X7X8



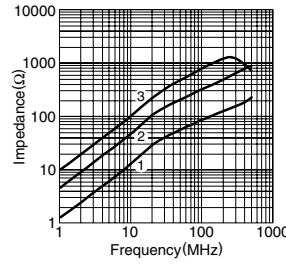
HF40T16X8X12



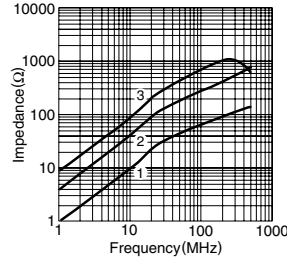
HF40T18X6X10



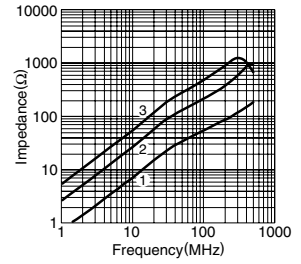
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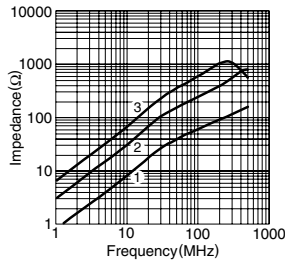
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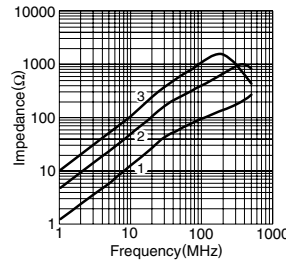
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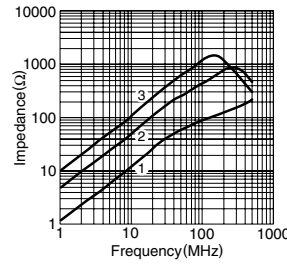
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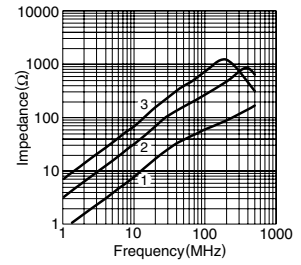
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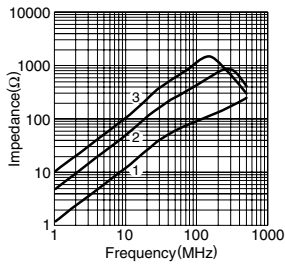
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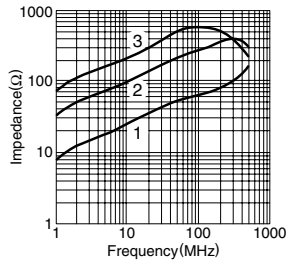
HF40T31X8X19



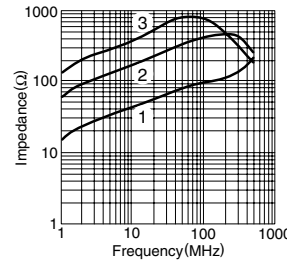
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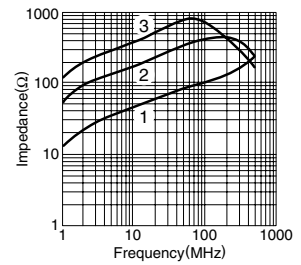
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HF60T25X13X15



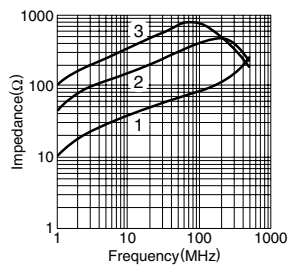
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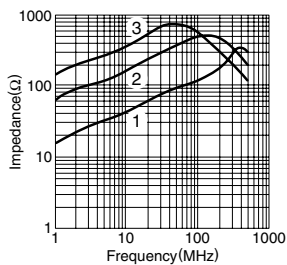
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TYPICAL ELECTRICAL CHARACTERISTICS Z, R, X vs. FREQUENCY CHARACTERISTICS

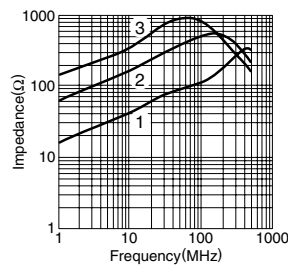
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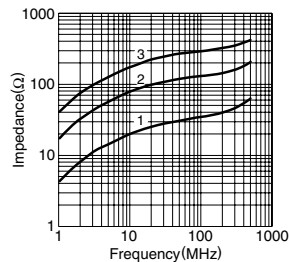
HF60T38X14X22



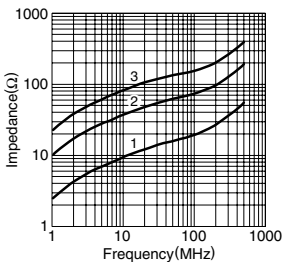
HF60T48X15X30



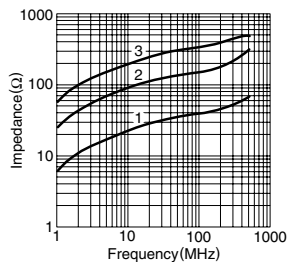
HF70T8X4X4



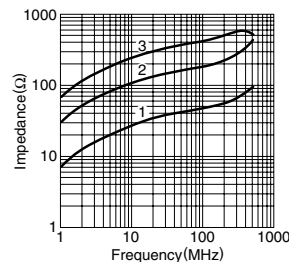
HF70T10X3X6



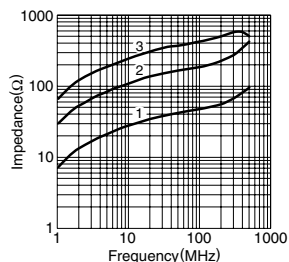
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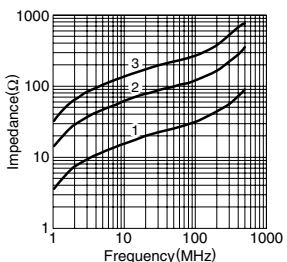
HF70T12X8X7.3



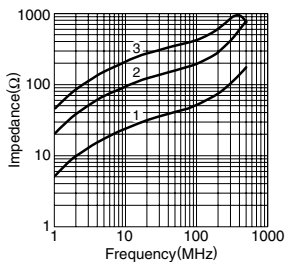
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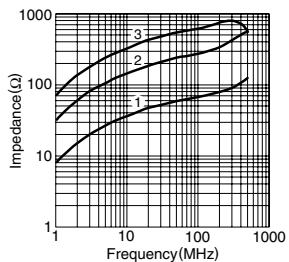
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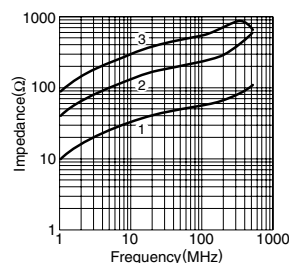
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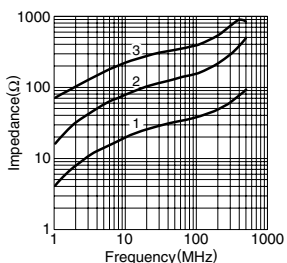
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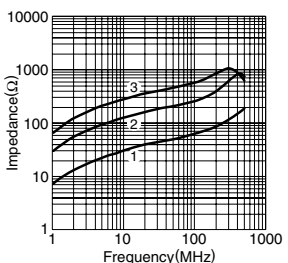
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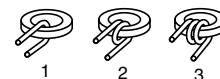
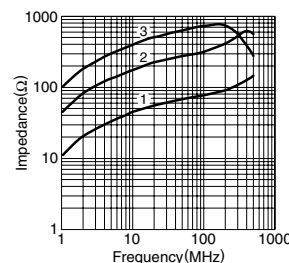
HF70T22X6.5X14



HF70T22X10X14

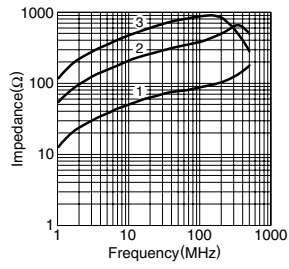


HF70T25X13X15

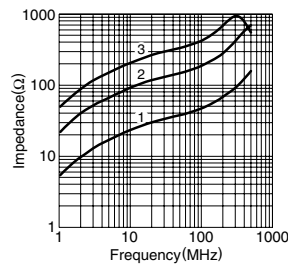


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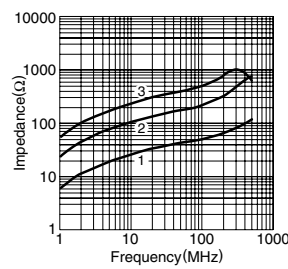
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HF70T28X13X16



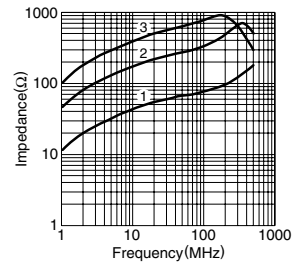
HF70T29X7.5X19



HF70T31X8X19



HF70T31X13X19



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