

Ferrite Toroid Cores (7000 Series)

Product Summary

850-Perm Ferrite Toroid Cores intended to be used as a user-wound EMI device to attenuate and suppress unwanted broadband RF noise with no loss of power or signal strength.

Product Application

Solid core toroids are the most common of cable ferrite applications. They can be used as single-pass devices but are most commonly wound with two or more turns of wire or cable to amplify impedance and fine-tune a circuit. The aspect ratio of a large I.D. and moderate width allows multiple turns and closest proximity of the wire to the ferrite. The intimacy of wire to ferrite builds desired impedance exponentially. MAJR offers up to 1.560" (36,0mm) I.D. Toroids available from stock.



Impedance of a Toroid Core is a relative factor, based on the interaction of the ferrite material, core volume, number of turns, cable, or wire size, and tightness of the wrap (effective path length). Cores are burnished to prevent insulation damage.

Product Technical Data

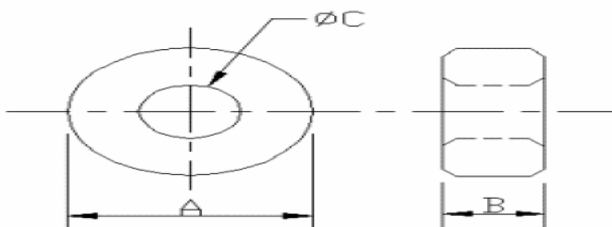
Figure	P/N	A	B	C	Impedance In OHMS		
					25 MHz	100 MHz	Peak
1	MRT-14 x 7 x 8	14 mm	7 mm	8 mm	Z ₁ = 25	Z ₂ = 45	900 Ohm @ 400 MHz
2	MRT-15 x 12 x 10.5	15 mm	12 mm	10.5 mm	Z ₁ = 20	Z ₂ = 55	850 Ohm @ 400 MHz
3	MRT-16 x 8 x 12	16 mm	8 mm	12 mm	Z ₁ = 26	Z ₂ = 48	950 Ohm @ 400MHz
4	MRT-16 x 10 x 10	16 mm	10 mm	10 mm	Z ₁ = 30	Z ₂ = 60	600 Ohm @ 400 MHz
5	MRT-16 x 15 x 12	16 mm	15 mm	12 mm	Z ₁ = 33	Z ₂ = 58	850 Ohm @ 400 MHz
6	MRT-18 x 6 x 10	18 mm	6 mm	10 mm	Z ₁ = 20	Z ₂ = 55	800 Ohm @ 400 MHz
7	MRT-18 x 10 x 10	18.3 mm	10 mm	10 mm	Z ₁ = 47	Z ₂ = 77	600 Ohm @ 400 MHz
8	MRT-22 x 10 x 14	22 mm	10 mm	14 mm	Z ₁ = 25	Z ₂ = 65	700 Ohm @ 400 MHz
9	MRT-25.4 x 6.35 x 12.7	25.4 mm	6.35 mm	12.7 mm	Z ₁ = 25	Z ₂ = 55	800 Ohm @ 400 MHz
10	MRT-31 x 8 x 19	31 mm	8 mm	19 mm	Z ₁ = 25	Z ₂ = 60	900 Ohm @ 400 MHz

Ferrite Toroid Cores (7000 Series), Cont.

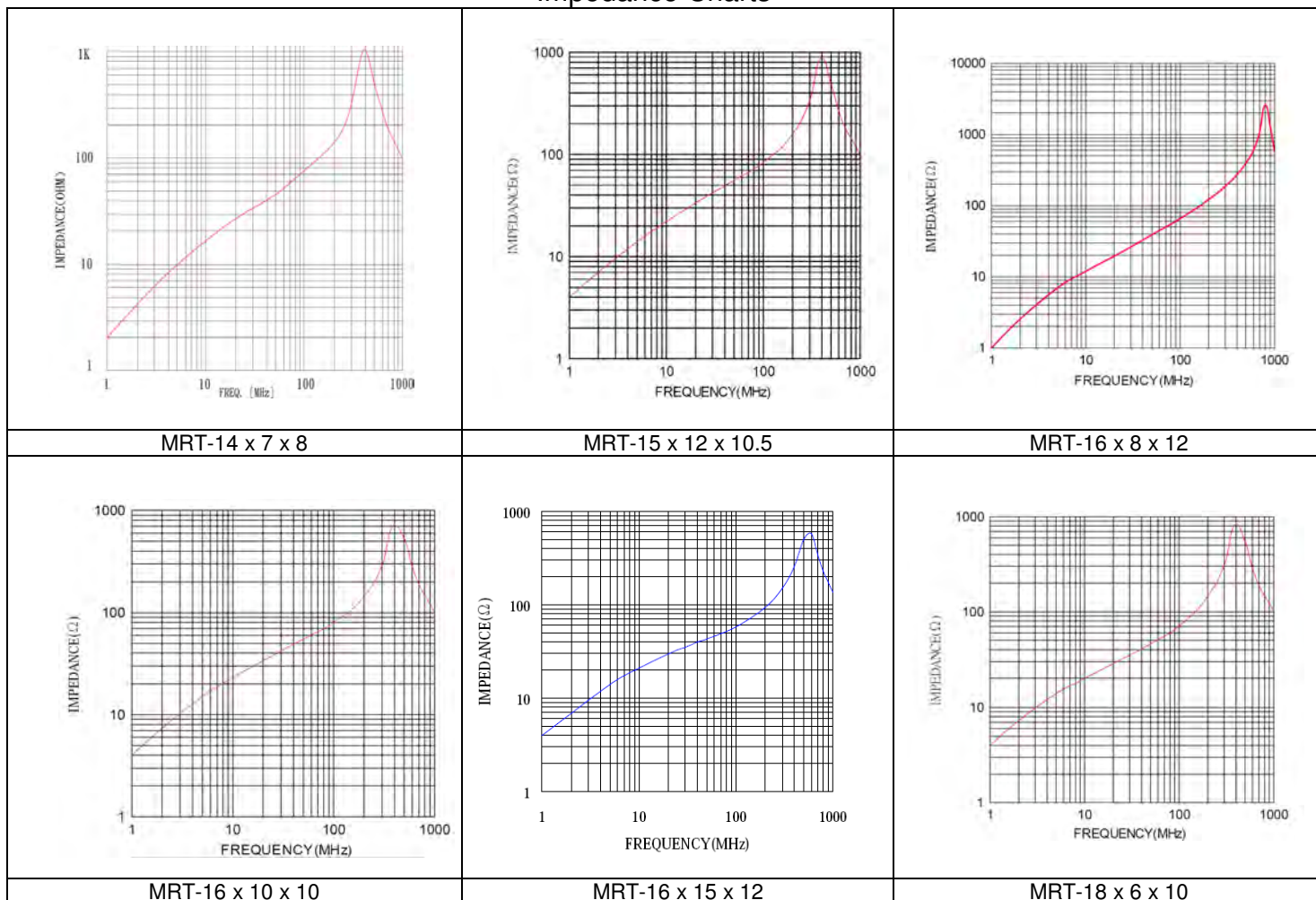
Product Technical Data Cont.

11	MRT-31 x 16 x 19	31 mm	16 mm	19 mm	$Z_1 = 50$	$Z_2 = 100$	500 Ohm @ 400 MHz
12	MRT-36 x 7 x 25	36 mm	7 mm	25 mm	$Z_1 = 17$	$Z_2 = 47$	950 Ohm @ 400 MHz
13	MRT-40.6 x 15 x 27.4	40.6 mm	15 mm	27.4 mm	$Z_1 = 36$	$Z_2 = 75$	700 Ohm @ 400 MHz
14	MRT-61.4 x 12.8 x 36	61.4 mm	12.8 mm	36 mm	$Z_1 = 35$	$Z_2 = 90$	400 Ohm @ 300 MHz

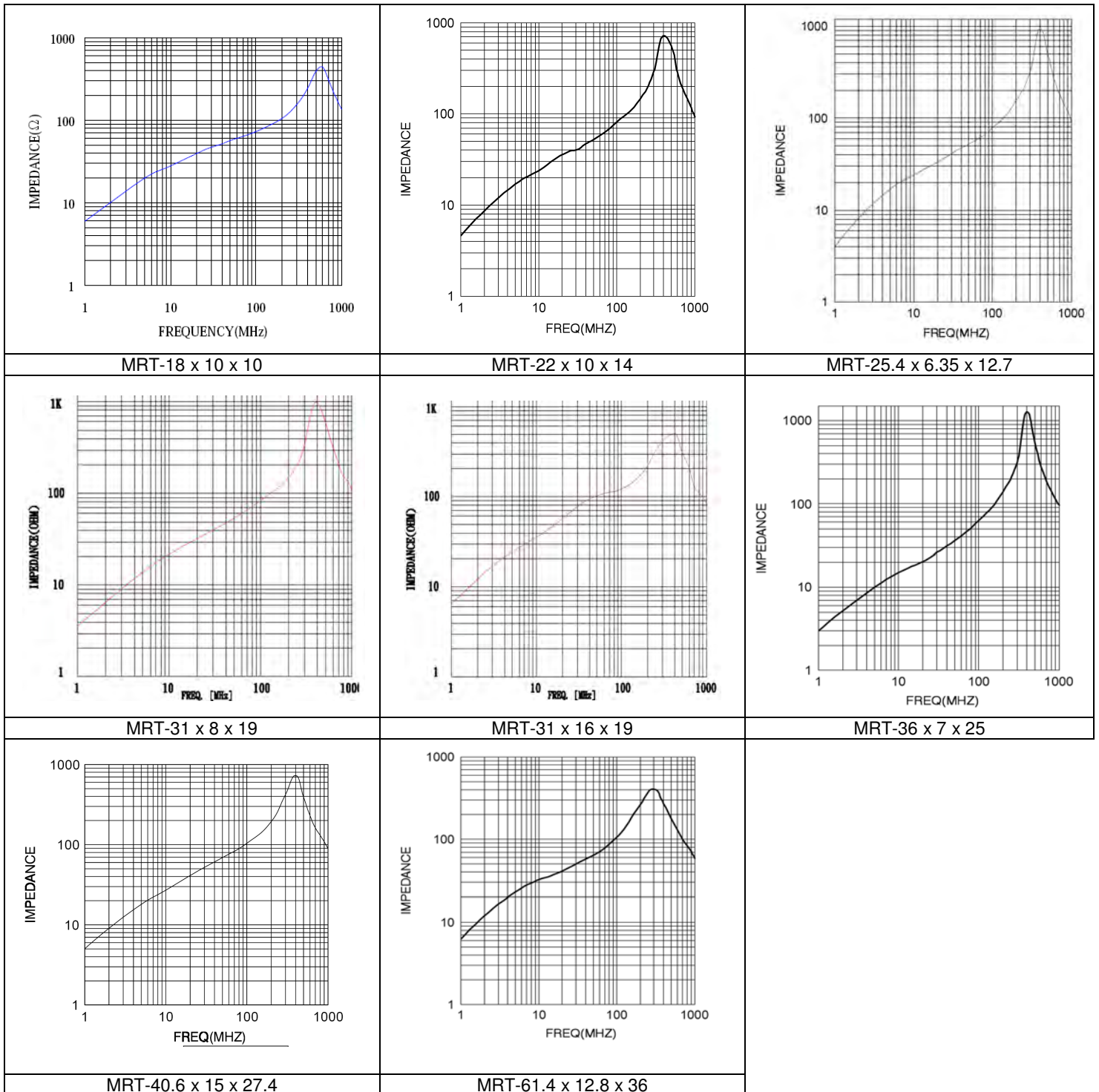
Figures 1-14



Impedance Charts



Ferrite Toroid Cores (7000 Series), Cont.



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