

31 MATERIAL SNAP-IT KIT

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31 Material is Fair-Rite's most broadband suppression material. The high permeability allowed by Manganese-Zinc construction extends strong attenuation performance all the way down to 1MHz while still allowing for high impedance to 300MHz and beyond. In Snap-it form, these cores can be quickly and easily added to existing conductors without the need for disassembly or removal of terminations. Fair-Rite's precision manufacturing process allows for near-solid core attenuation performance without significant upsizing of the ferrite core.

APPLICATIONS

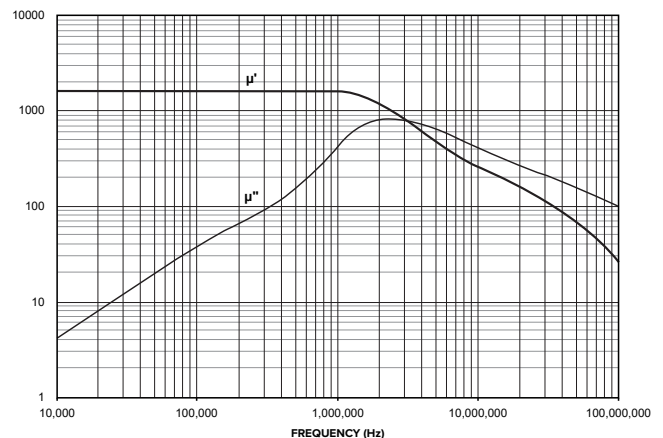
- Automotive/Electric Vehicles
- Industrial Equipment
- Mil/Aero
- Smart Home

KEY BENEFITS

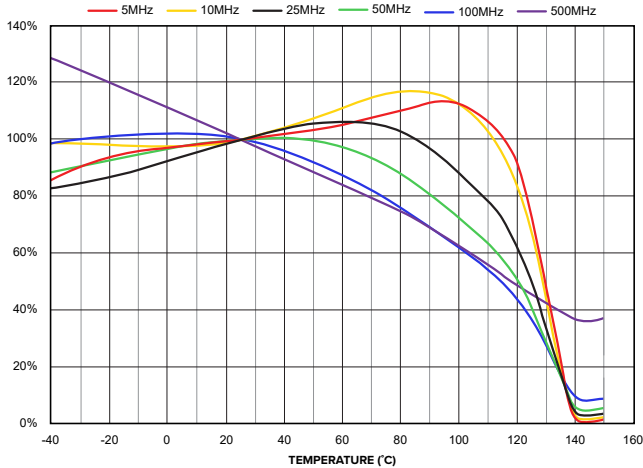
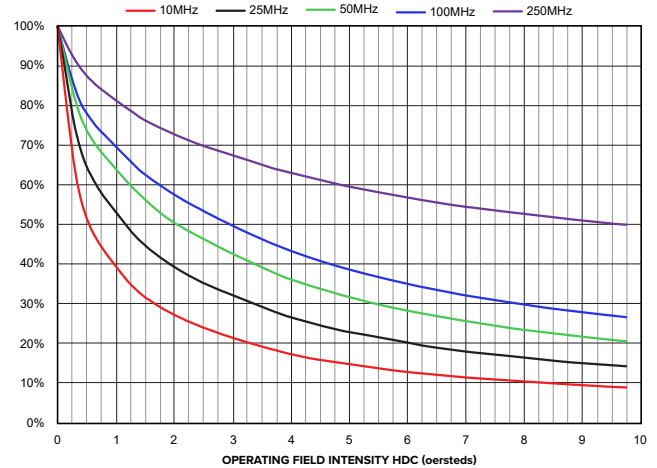
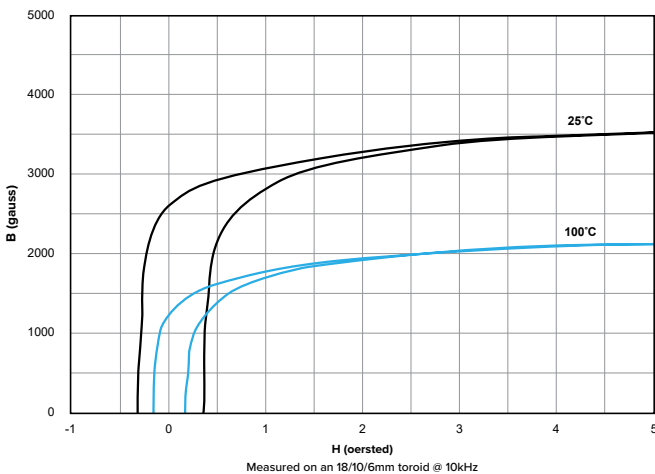
- 31 material suppresses noise from 1MHz to 300MHz
- Highly broadband attenuation performance
- Contains Snap-on ferrite cores in a wide variety of sizes to fit most cables
- Snap-It cores are laser etched with part number identification for trace-ability
- Expert factory based technical assistance is available
- Precision manufacturing ensures near solid core performance without significant increase in size
- Tight quality control guarantees repeatable results



31 MATERIAL PERMEABILITY VS FREQUENCY



PART NUMBER	MAX. CABLE DIAMETER	A	B	C	D	WT. (G)	IMPEDANCE (Ω)						SOLID EQUIVALENT
							1 MHz	5 MHz	10 MHz	25 MHz*	100 MHz*	250 MHz	
0431164951	4.9 (0.193")	16.80±1.0 (0.661")	4.90 (0.193")	36.2±1.5 (1.45")	8.4±0.6 (0.335")	17	20.5	77	106	174	324	370	2631480002
0431164281	6.3 (0.25")	20±1.5 (0.787")	6.3 (0.248")	39.5±2.0 (1.555")	9.8±0.5 (0.386")	26	20	75	104	170	315	380	2631540002
0431178281	8.7 (0.343")	21.0±1.0 (0.827")	8.70 (0.343")	39.4±1.5 (1.551")	10.5±1.0 (0.413")	24	23	66	89	142	256	312	2631665702
0431167281	9.85 (0.388")	23.0±1.5 (0.906")	9.85± (0.388")	39.5±2.0 (1.55")	11.6±0.5 (0.461")	33	17.7	65	88	136	239	284	2631626402
0431164181	12.7 (0.5")	30.0±1.5 (1.181")	12.75 (0.502")	39.5±2.0 (1.555")	15.50±.75 (0.75")	61	19	67	91	147	265	318	2631102002
0431176451	18 (0.709")	38.5±1.5 (1.516")	18.00 (0.709")	47.5±2.0 (1.87")	19.15±1.0 (0.755")	161	32	110	145	225	388	433	2631103002

31 MATERIAL IMPEDANCE DERATING WITH TEMPERATURE

31 MATERIAL IMPEDANCE DERATING WITH APPLIED DC BIAS

31 MATERIAL HYSTERESIS LOOP

31 MATERIAL PERMEABILITY VS TEMPERATURE
