

44 MATERIAL SNAP-IT KIT 0199000049

44 Material is a medium permeability, broadband suppression material. Attenuation performance is strong between 25-300MHz. Being constructed from Nickel-Zinc, 44 exhibits favorable over-temperature and DC bias performance. 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-Rites precision manufacturing process allows for near-solid core attenuation performance without significant upsizing of the ferrite core.

APPLICATIONS

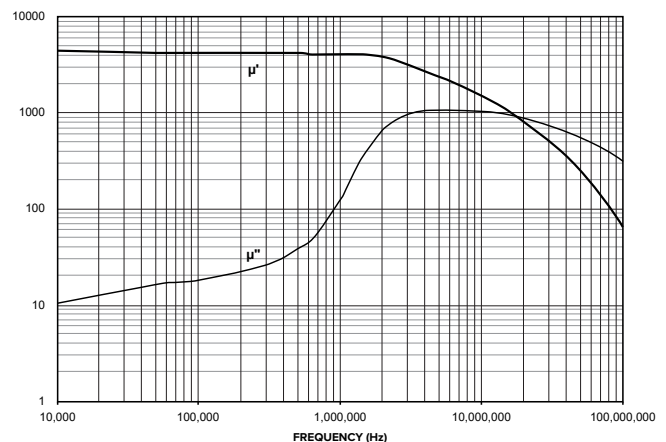
- Automotive/Electric Vehicles
- Industrial Equipment
- Mil/Aero
- Smart Home

KEY BENEFITS

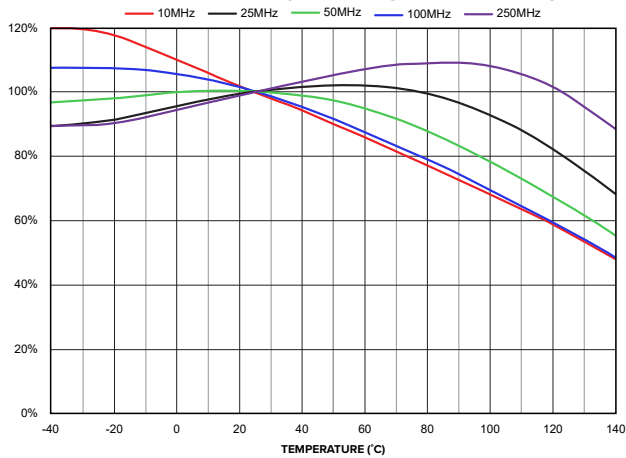
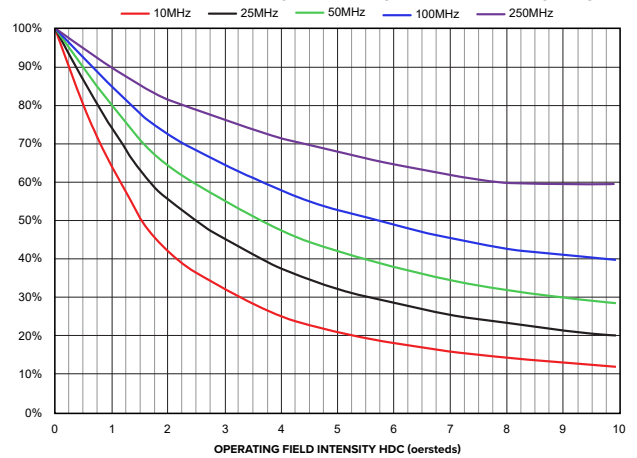
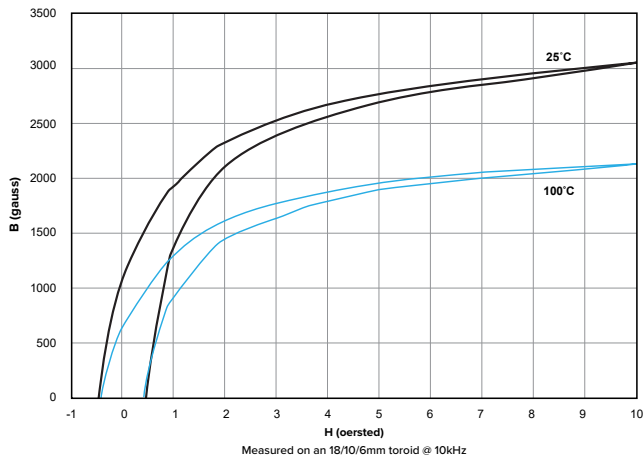
- 44 material suppresses noise from 25MHz to 300MHz
- Nickel Zinc construction allows for enhanced stability in higher current environments
- Contains Snap-on ferrite cores in a wide variety of sizes to fit most cables
- Snap-It cores are laser etched with part number identification for trace-ability
- 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



44 MATERIAL PERMABILITY VS FREQUENCY



PART NUMBER	MAX. CABLE DIAMETER	A	B	C	D	WT. (G)	IMPEDANCE (Ω)				SOLID EQUIVALENT
							10 MHz	25 MHz ⁺	100 MHz ⁺	250 MHz	
0444164951	4.9 (0.193")	16.80 \pm 1.0 (0.661")	4.90 \geq (0.193")	36.2 \pm 1.5 (1.425")	8.5 \pm 0.6 (0.335")	17	98	162	255	295	2643480002
0444164281	6.3 (0.25")	20 \pm 1.5 (0.787")	6.3 (0.248")	39.5 \pm 2.0 (1.555")	9.8 \pm 0.5 (0.386")	26	120	187	285	325	2643540002
0444178281	8.7 (0.343")	21.0 \pm 1.0 (0.827")	8.70 (0.343")	39.4 \pm 1.5 (1.551")	10.55 \pm 1.0 (0.413")	24	90	135	205	240	2643665702
0444167281	9.85 (0.388")	23.0 \pm 1.5 (0.906")	9.85 (0.388")	39.5 \pm 2.0 (1.555")	11.6 \pm 0.5 (0.461")	33	86	139	206	237	2643626402
0444164181	12.7 (0.5")	30.0 \pm 1.5 (1.180")	12.75 (0.502")	39.5 \pm 2.0 (1.555")	15.50 \pm .75 (0.61")	61	83	137	215	275	2643102002
0444176451	18 (0.709")	38.5 \pm 1.5 (1.516")	18.00 (0.709")	47.5 \pm 2.0 (1.87")	19.15 \pm 1.0 (0.755")	161	144	224	367	433	2643103002

44 MATERIAL IMPEDANCE DERATING WITH TEMPERATURE

44 MATERIAL IMPEDANCE DERATING WITH APPLIED DC BIAS

44 MATERIAL HYSTERESIS LOOP

44 MATERIAL PERMEABILITY VS TEMPERATURE
