

# 61 MATERIAL SNAP-IT KIT 0199000051

61 Material is Fair-Rite's highest frequency suppression material. It effectively suppresses noise from 100's of MHz into the low GHz. High temperature stability ensures consistent performance over varied environmental conditions. 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

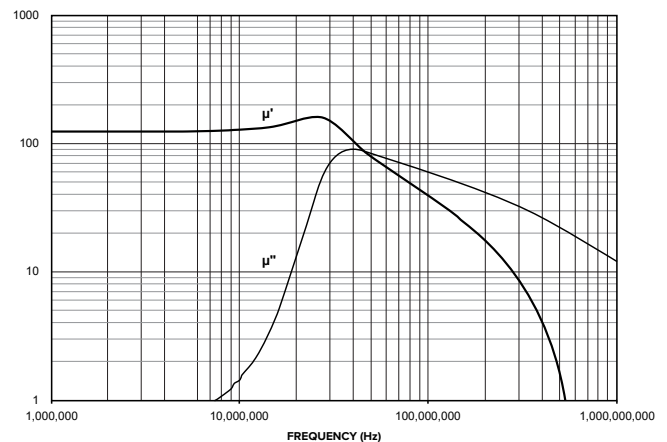
- Automotive/Electric Vehicles
- Industrial Equipment
- Mil/Aero
- Smart Home

## KEY BENEFITS

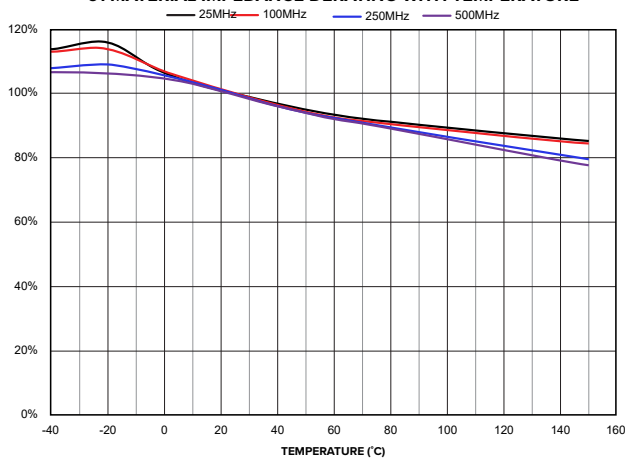
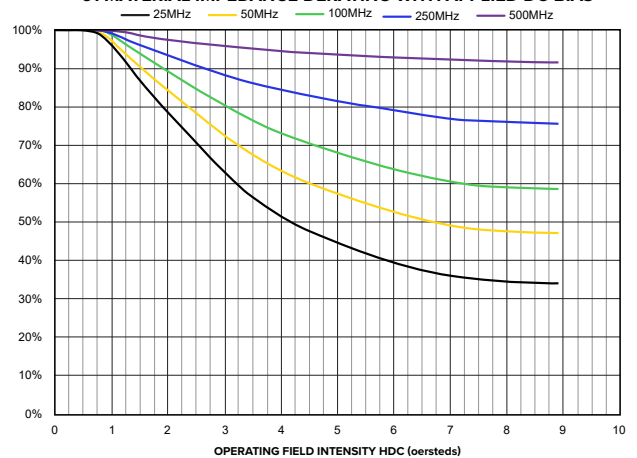
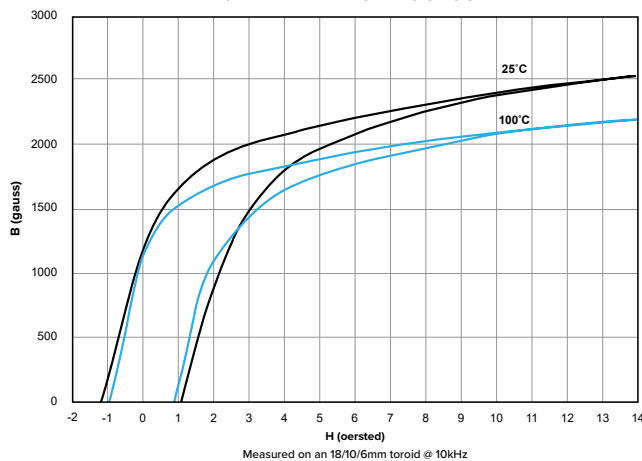
- 61 material suppresses noise from 200MHz to 2GHz
- High stability performance over varying temperatures
- Contains Snap-on ferrite cores in a wide variety of sizes to fit most cables
- Snap-It cores are laser etched with part number identification for trace-ability
- Expert factory based technical assistance is available
- Precision manufacturing ensures near solid core performance without significant increase in size
- Tight quality control guarantees repeatable results



**61 MATERIAL PERMABILITY VS FREQUENCY**



PART NUMBER	MAX. CABLE DIAMETER	A	B	C	D	WT. (G)	IMPEDANCE ( $\Omega$ )				SOLID EQUIVALENT
							100 MHz	250 MHz*	500 MHz*	1000 MHz	
0461164951	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	203	330	510	800	2661480002
0461164281	6.3 (0.25")	20 $\pm$ 1.5 (0.787")	6 (0.248")	39.5 $\pm$ 2.0 (1.555")	9.8 $\pm$ 0.5 (0.386")	26	233	355	475	435	2661540002
0461178281	8.7 (0.343")	21.0 $\pm$ 1.0 (0.827")	8.70 $\geq$ (0.343")	39.4 $\pm$ 1.5 (1.551")	10.5 $\pm$ 1.0 (0.413")	24	200	350	372	210	2661665702
0461167281	9.85 (0.388")	23.0 $\pm$ 1.5 (0.906")	9.85 (0.383")	39.5 $\pm$ 2.0 (1.555")	11.7 $\pm$ 0.5 (0.461")	33	206	320	450	480	2661626402
0461164181	12.7 (0.5")	30.0 $\pm$ 1.5 (1.181")	12.75 (0.502")	39.5 $\pm$ 2.0 (1.555")	15.50 $\pm$ .75 (0.61")	61	224	360	500	365	2661102002
0461176451	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	341	534	485	235	

**61 MATERIAL IMPEDANCE DERATING WITH TEMPERATURE**

**61 MATERIAL IMPEDANCE DERATING WITH APPLIED DC BIAS**

**61 MATERIAL HYSTERESIS LOOP**


Measured on an 18/10/6mm toroid @ 10kHz

**61 MATERIAL PERMEABILITY VS TEMPERATURE**
