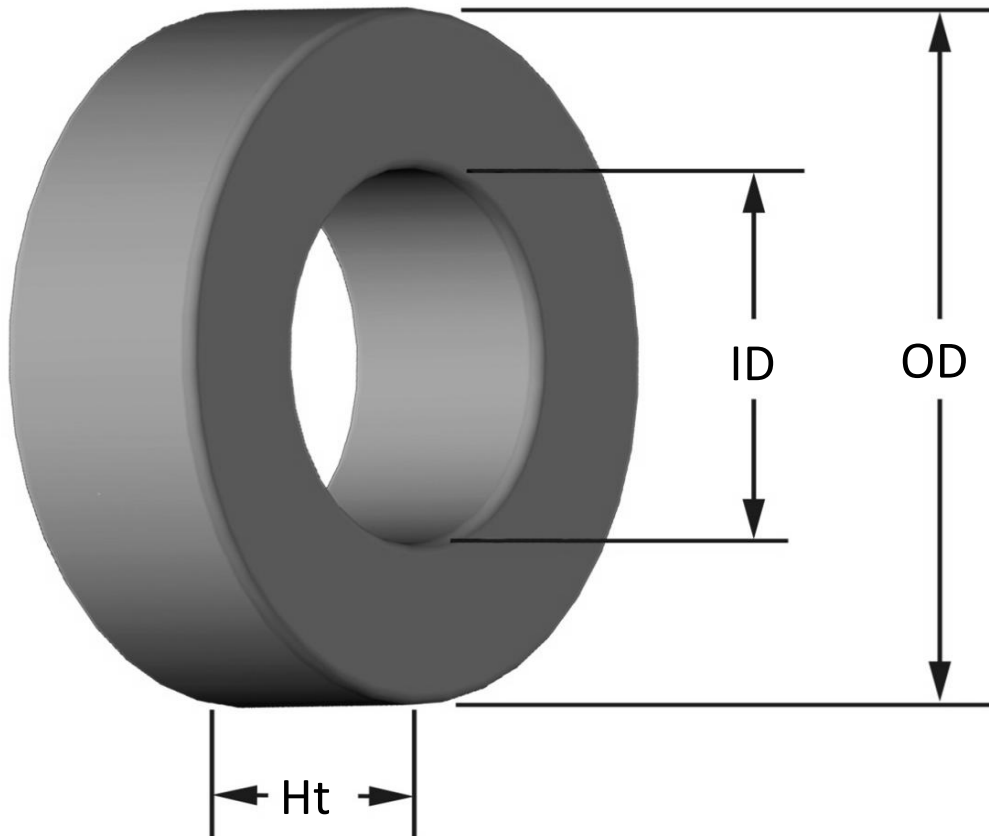


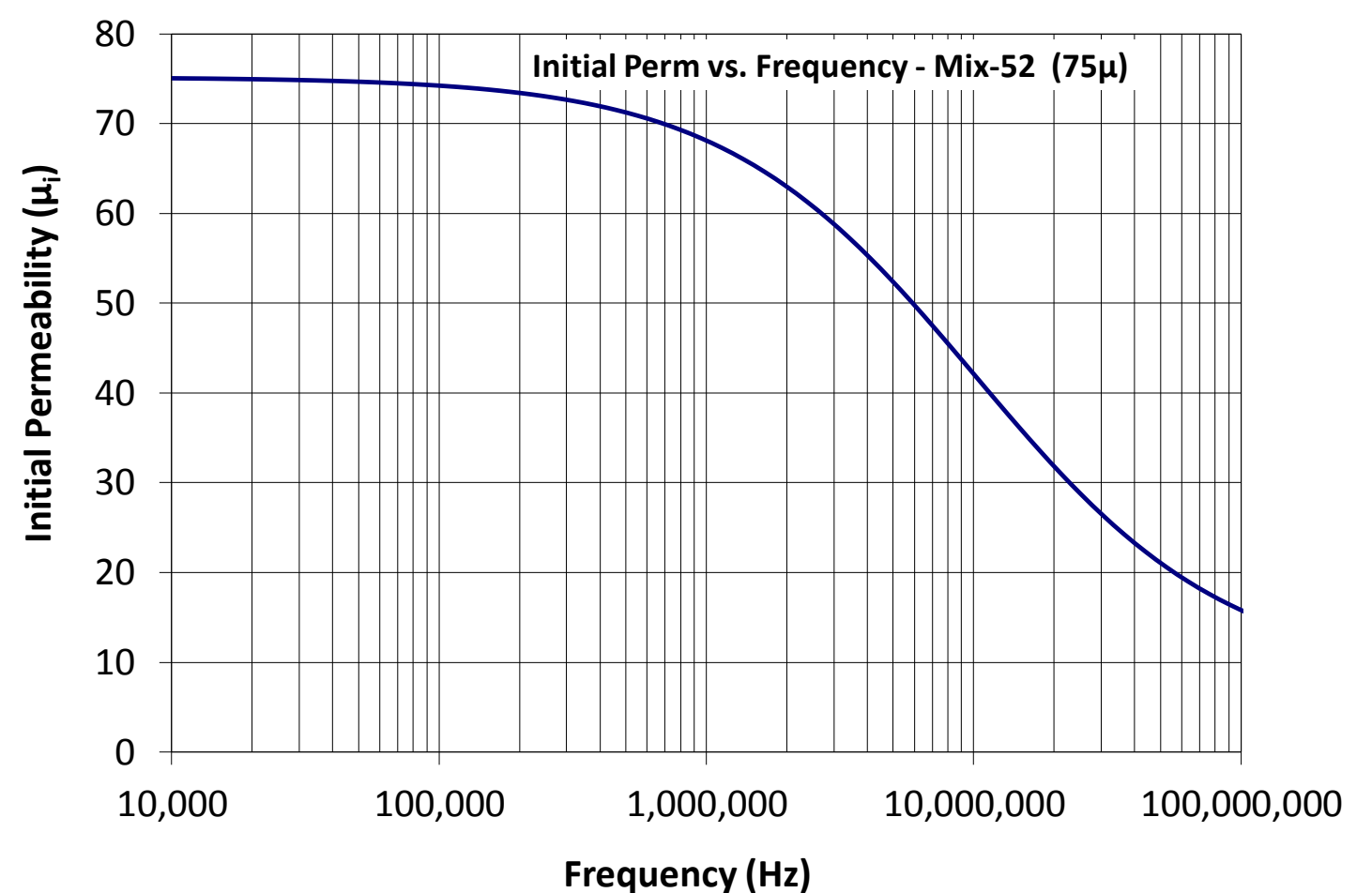
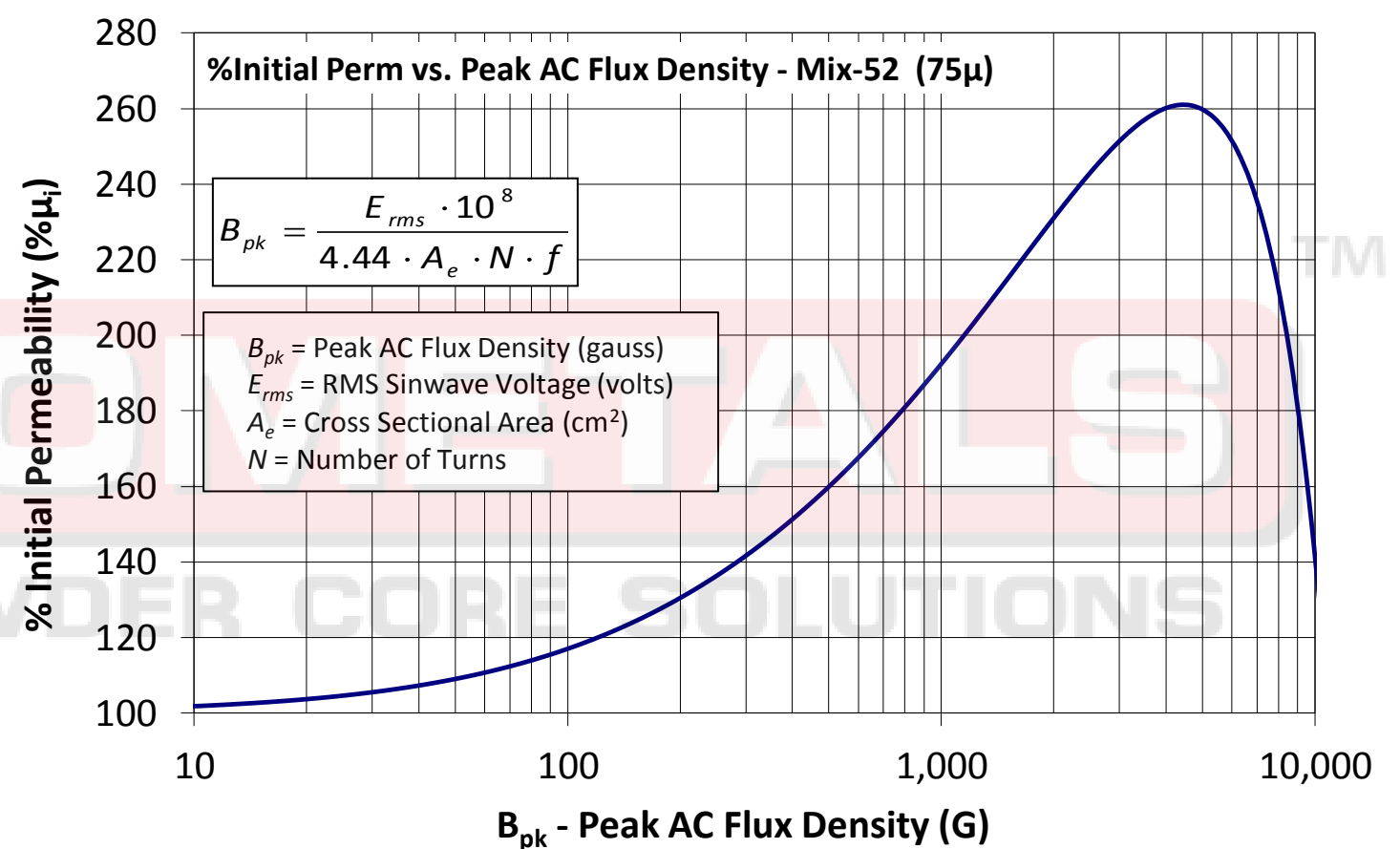
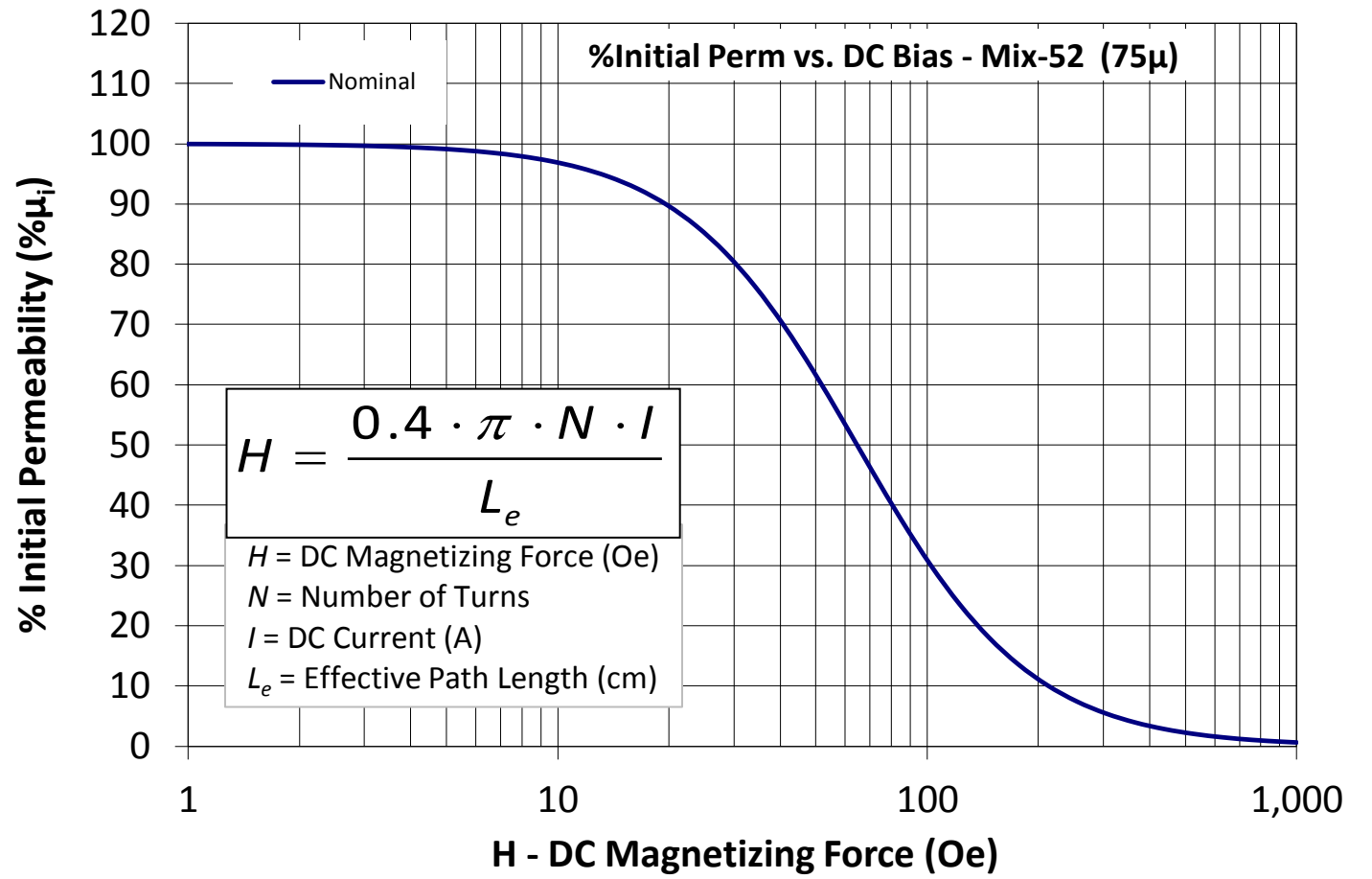
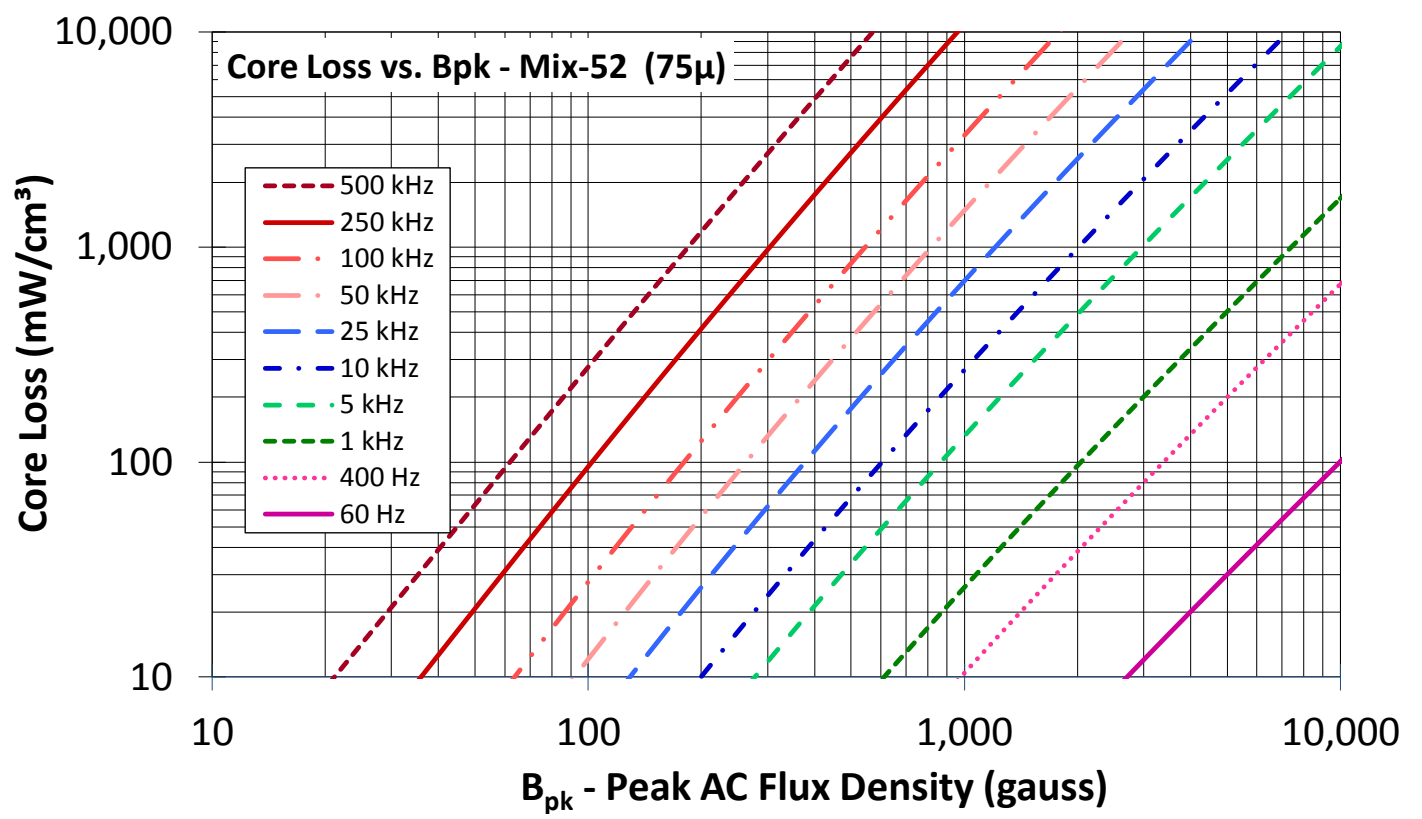


Part Number: **T130-52A**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	33.02 mm 33.53 mm	1.300 in 1.320 in
ID	(nom. - bare core) (min. - after coating)	19.81 mm 19.30 mm	0.780 in 0.760 in
Ht	(nom. - bare core) (max. - after coating)	5.72 mm 6.35 mm	0.225 in 0.250 in
Mass	(approximate)	21 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.361 cm ²	
	L _e - Eff. Mag. Path Length	8.28 cm	
	V _e - Eff. Core Volume	2.99 cm ³	
	WA - Min. Eff. Window Area	2.93 cm ²	
	sa - Surface Area	33.3 cm ²	
	mlt - mean length per turn	3.66 cm	
Inductance	μ _i (reference)	75	
	A _L value (nominal)	41 nH/N ²	
	Test Winding	N=100, #24 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.16 V	
A _L tolerance	±10%		
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14		
	B _{pk}	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	58 mW/cm ³	
Core Loss (maximum)	67 mW/cm ³		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=4.66E-06, c=1.84, d=0.00		
	H _{DC}	50 Oe	
	Percent Initial Perm(nom.)	61.6%	
Percent Initial Perm(min.)	53.4%		
Coating/Pkg	Coating Type:	Green/Blue Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	600 Pcs/Box	



Winding Table	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	14	18	22	29	36	46	58	73	91	114	142
		Rdc(Ω)	1.1 m	2.2 m	4.2 m	8.8 m	17.3 m	35.2 m	70.6 m	141.3 m	280.1 m	558.1 m	1.1
Full Winding	Turns	15	24	37	57	88	136	211	326	504	781	1,208	
	Rdc(Ω)	1.1 m	2.9 m	7.0 m	17.2 m	42.3 m	104.1 m	256.8 m	630.9 m	1.6	3.8	9.4	