

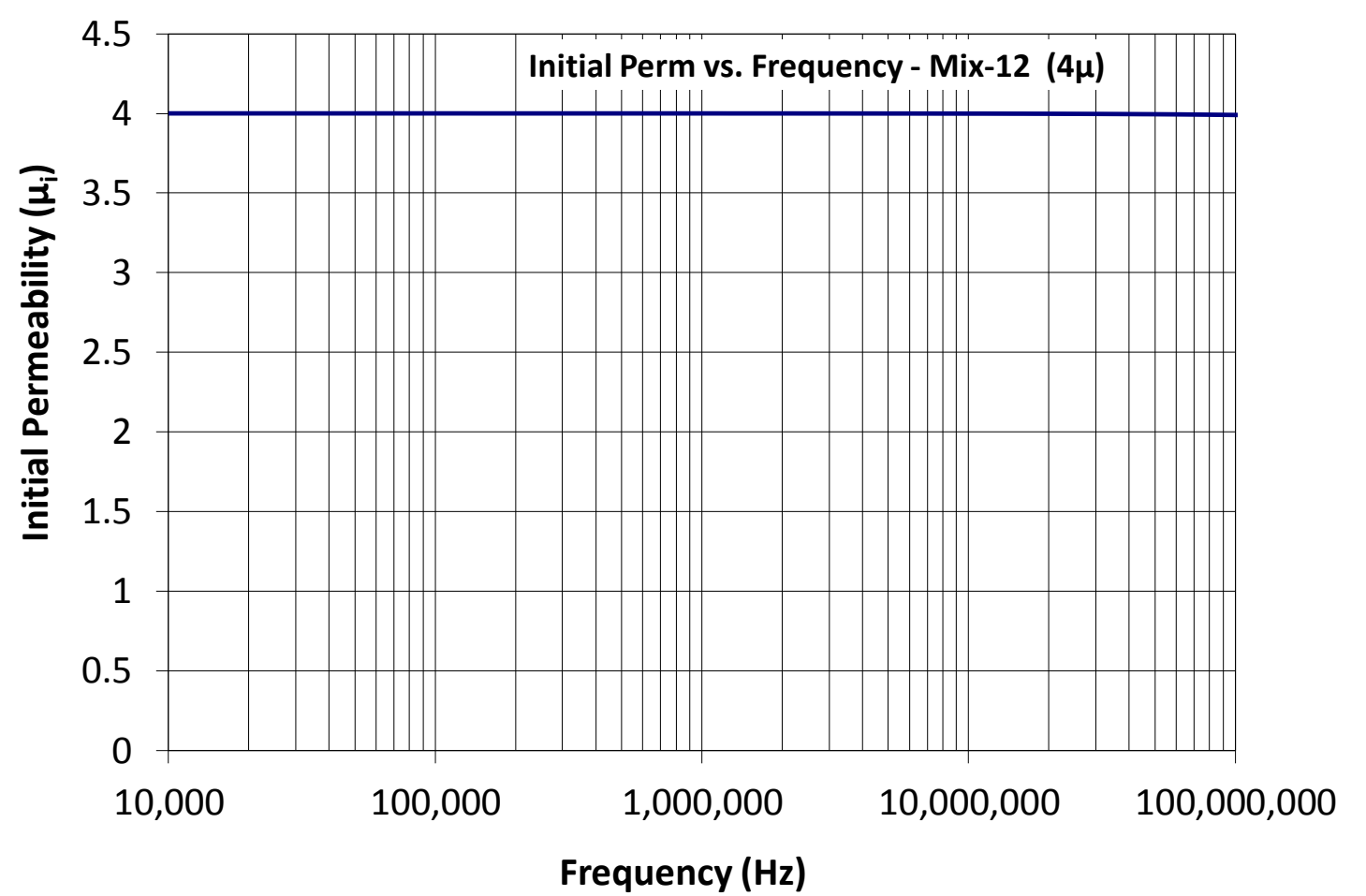
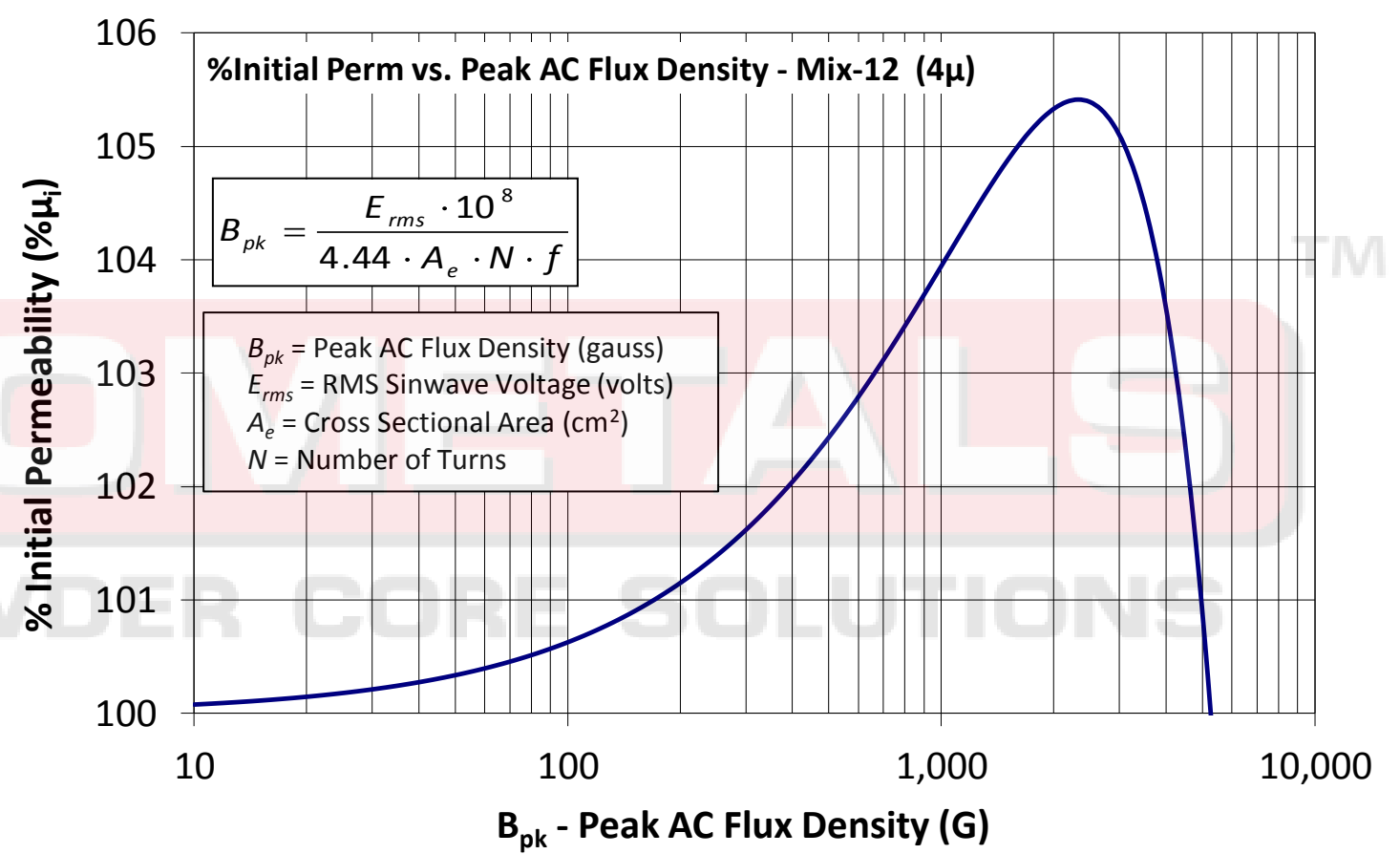
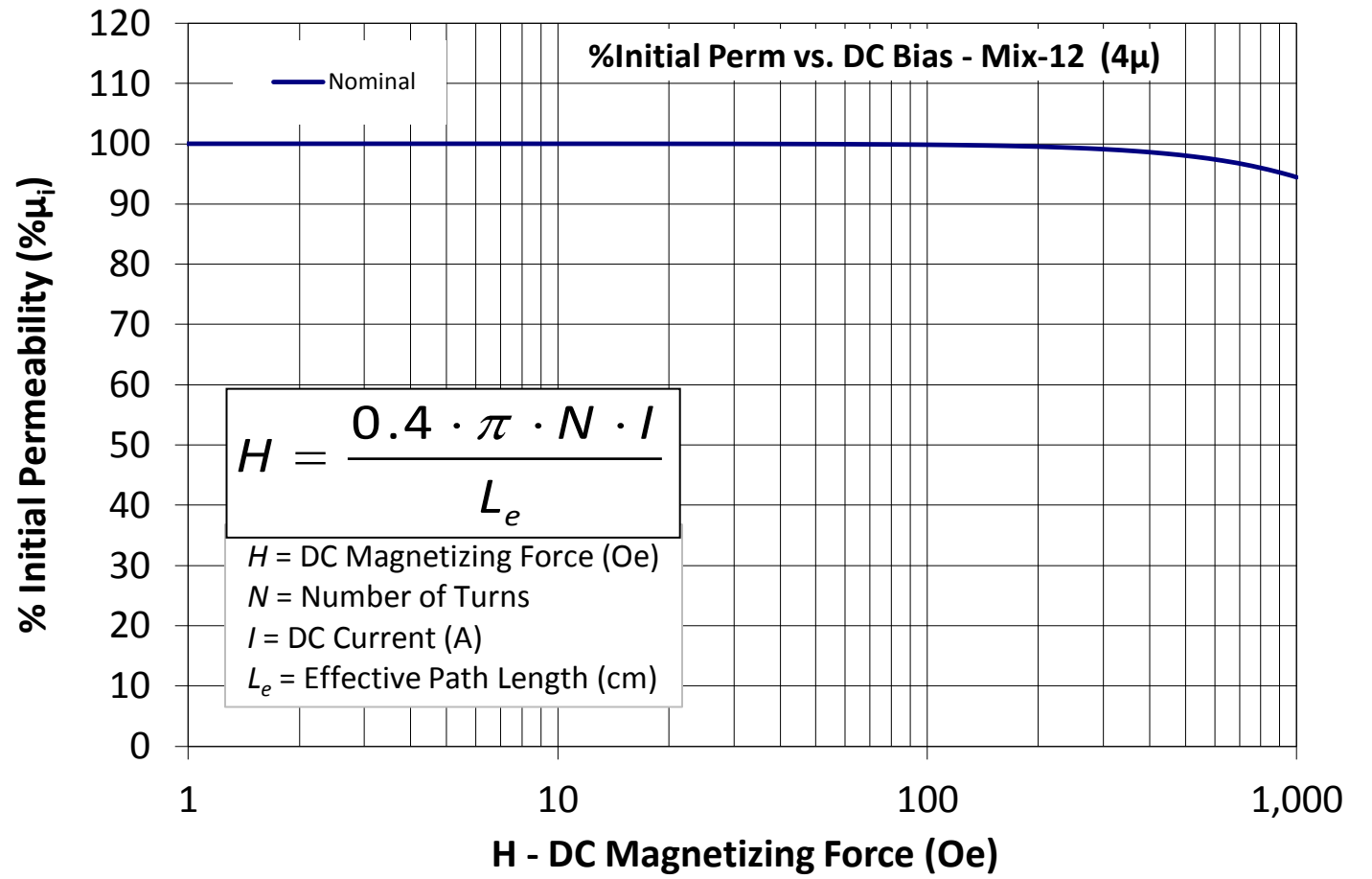
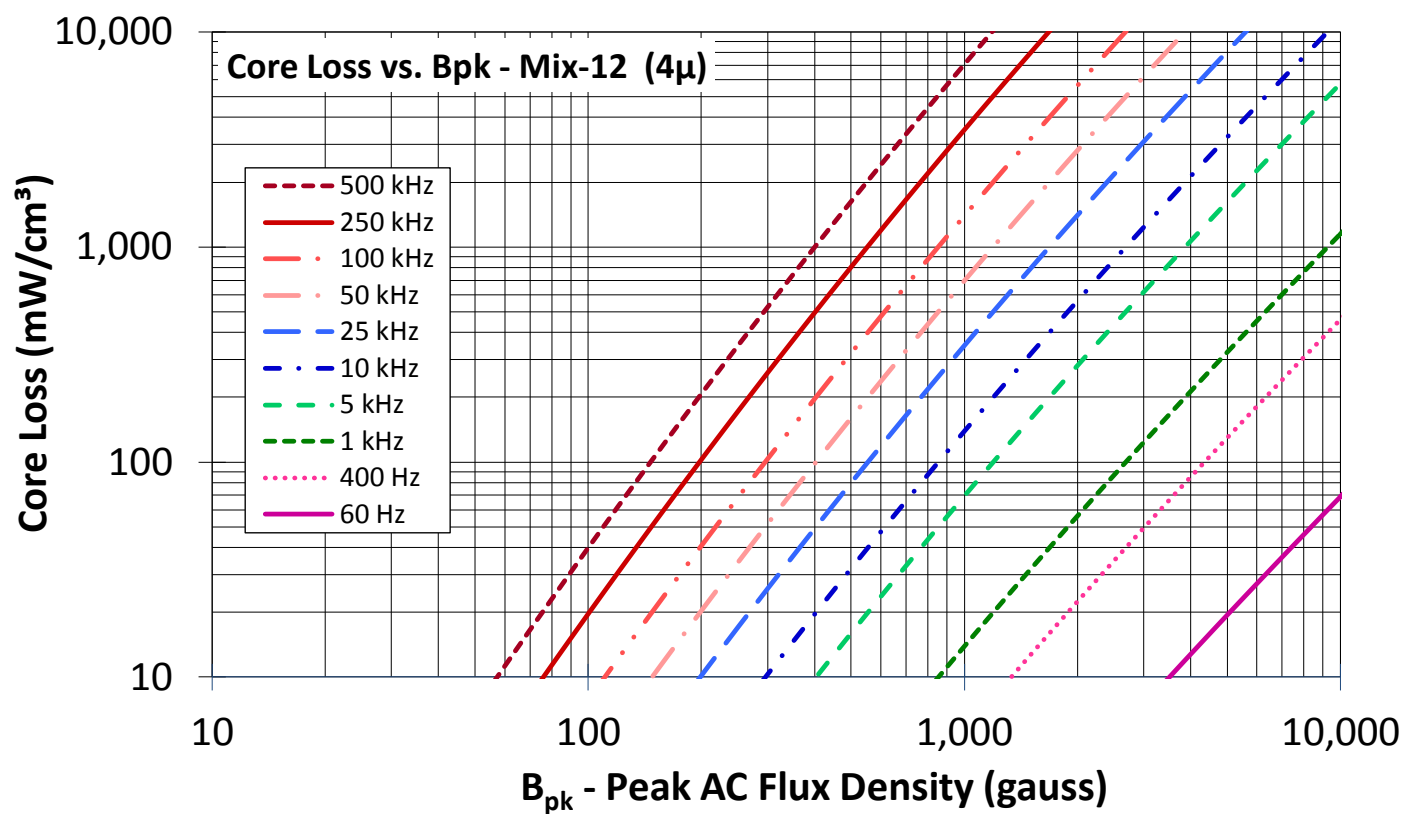


**Part Number:** **T7-12**

Revision 20190524 - Generated 2019-May-30



<b>OD</b>	(nom. - bare core) (max. - after coating)	1.78 mm 1.91 mm	0.070 in 0.075 in	
<b>ID</b>	(nom. - bare core) (min. - after coating)	0.89 mm 0.76 mm	0.035 in 0.030 in	
<b>Ht</b>	(nom. - bare core) (max. - after coating)	0.76 mm 0.89 mm	0.030 in 0.035 in	
<b>Mass</b>	(approximate)	0.01 grams		
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.00350 cm <sup>2</sup>		
	L <sub>e</sub> - Eff. Mag. Path Length	0.420 cm		
	V <sub>e</sub> - Eff. Core Volume	0.00150		
	WA - Min. Eff. Window Area	0.00456 cm <sup>2</sup>		
	sa - Surface Area	0.135 cm <sup>2</sup>		
<b>Inductance</b>	μ <sub>i</sub> (reference)	4		
	A <sub>L</sub> value (nominal)	0.6 nH/N <sup>2</sup>		
	Test Winding	N=10, #36 AWG		
	Frequency	1 MHz		
	Voltage on Agilent 4284A	0.016 V		
<b>Core Loss</b>	A <sub>L</sub> tolerance	±5%		
	Core Loss(mW/cm <sup>3</sup> )=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and:	a=4.00E+09, b=3.00E+08, c=2.70E+06, d=4.40E-16		
	Bpk	140 G		
	frequency	100 kHz		
<b>DC Saturation</b>	Core Loss (nominal)	18 mW/cm <sup>3</sup>		
	Core Loss (maximum)	20 mW/cm <sup>3</sup>		
	%μ <sub>i</sub> =	$\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and:	a=1.00E-02, b=1.34E-08, c=1.55, d=0.00		
	H <sub>DC</sub>	200 Oe		
<b>Coating/Pkg</b>	Percent Initial Perm(nom.)	99.5%		
	Percent Initial Perm(min.)	99.4%		
	Coating Type:	Parylene C		
	Voltage Breakdown (min.)	500 Vrms, 60Hz		
<b>Winding Table</b>	Limit	3 mA, 5 s		
	Package Quantity	250,000 Pcs/Box		
	<b>Wire Size</b>	AWG	36	38
		mm	0.125	0.100
	<b>Single Layer</b>	Turns	11	14
Rdc(Ω)		49.5 m	100.1 m	
<b>Full Winding</b>	Turns	11	17	
	Rdc(Ω)	49.5 m	121.6 m	



<b>Winding Table</b>	<b>Wire Size</b>	AWG	36	38	40	42	44	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		mm	0.125	0.100	0.080	0.063	0.050	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
<b>Single Layer</b>	Turns	11	14	18	24	30	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	Rdc(Ω)	49.5 m	100.1 m	204.7 m	434.1 m	863.0 m	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
<b>Full Winding</b>	Turns	11	17	26	40	62	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	Rdc(Ω)	49.5 m	121.6 m	295.7 m	723.5 m	1.8	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A