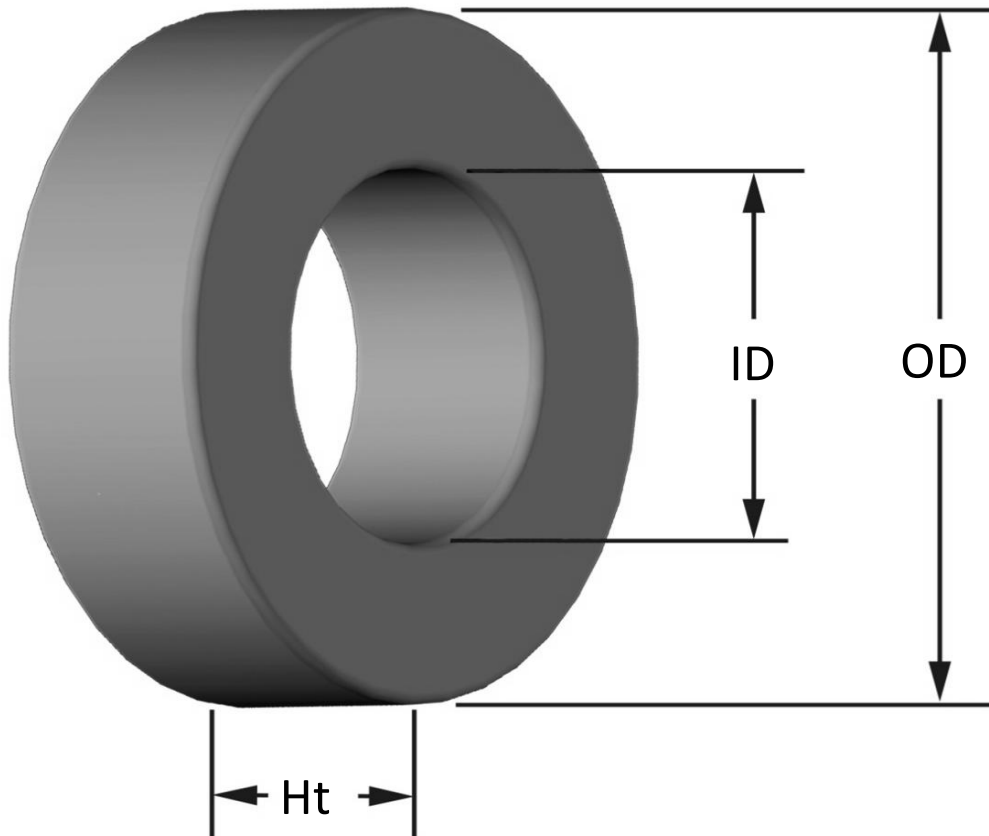


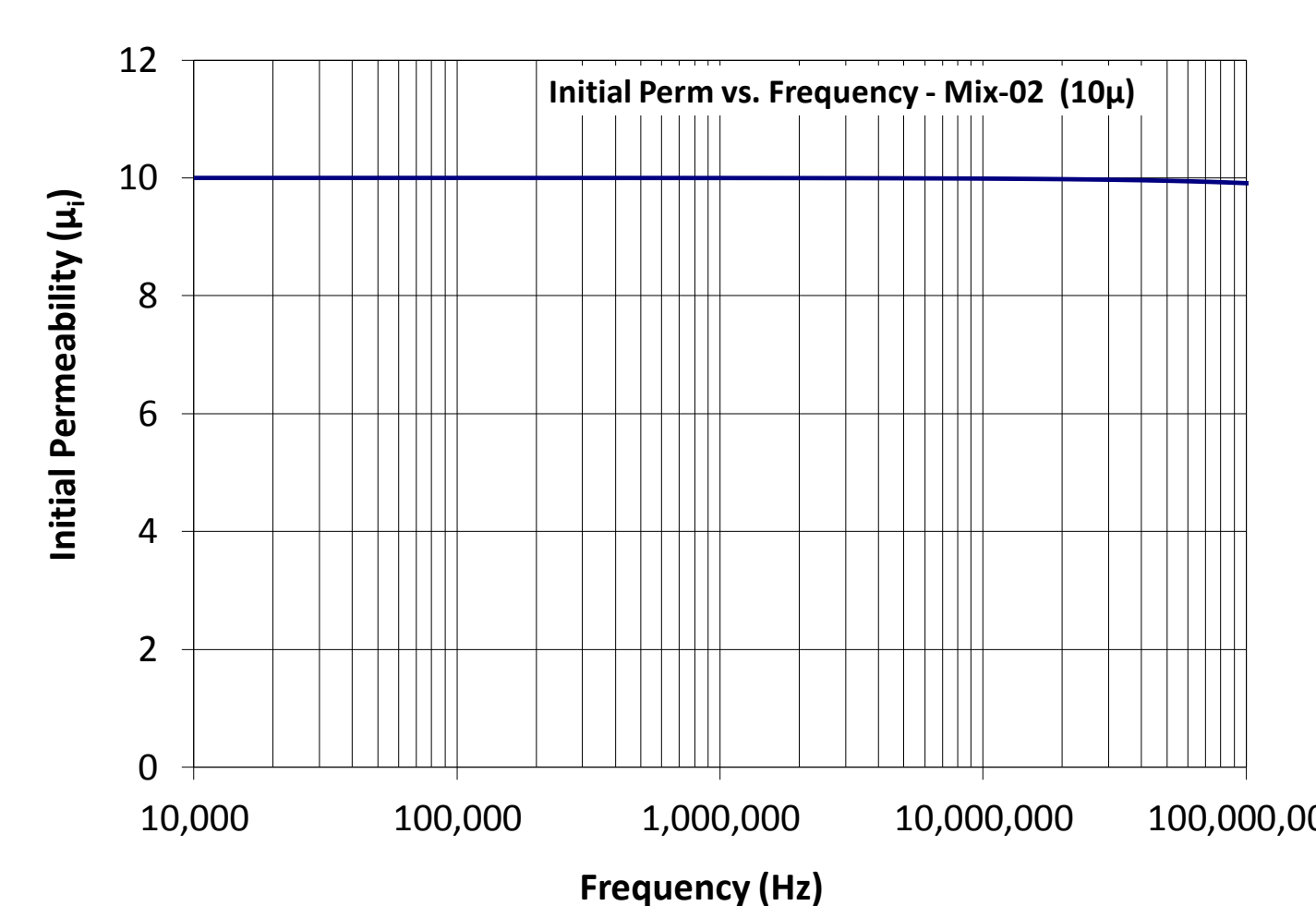
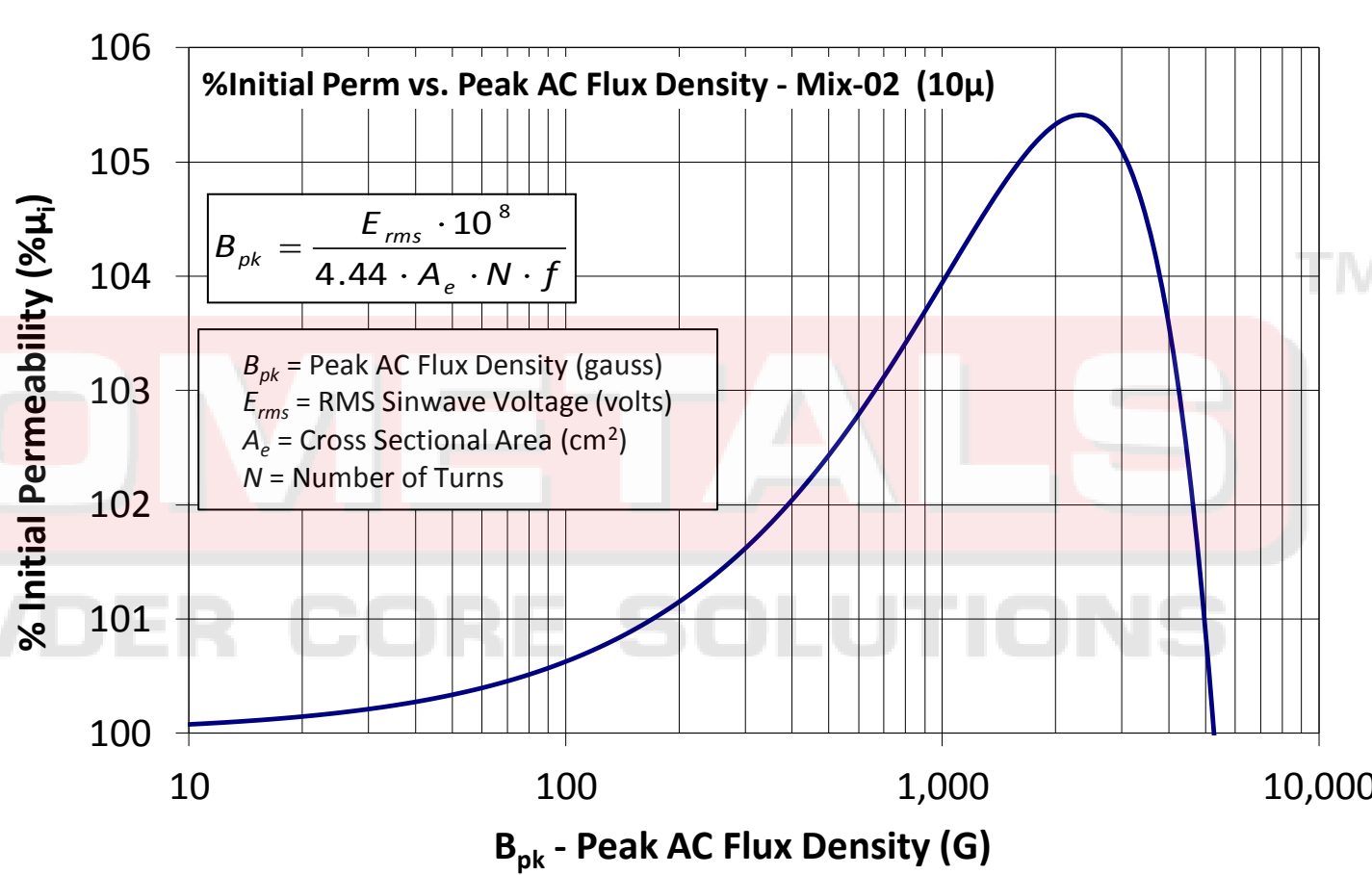
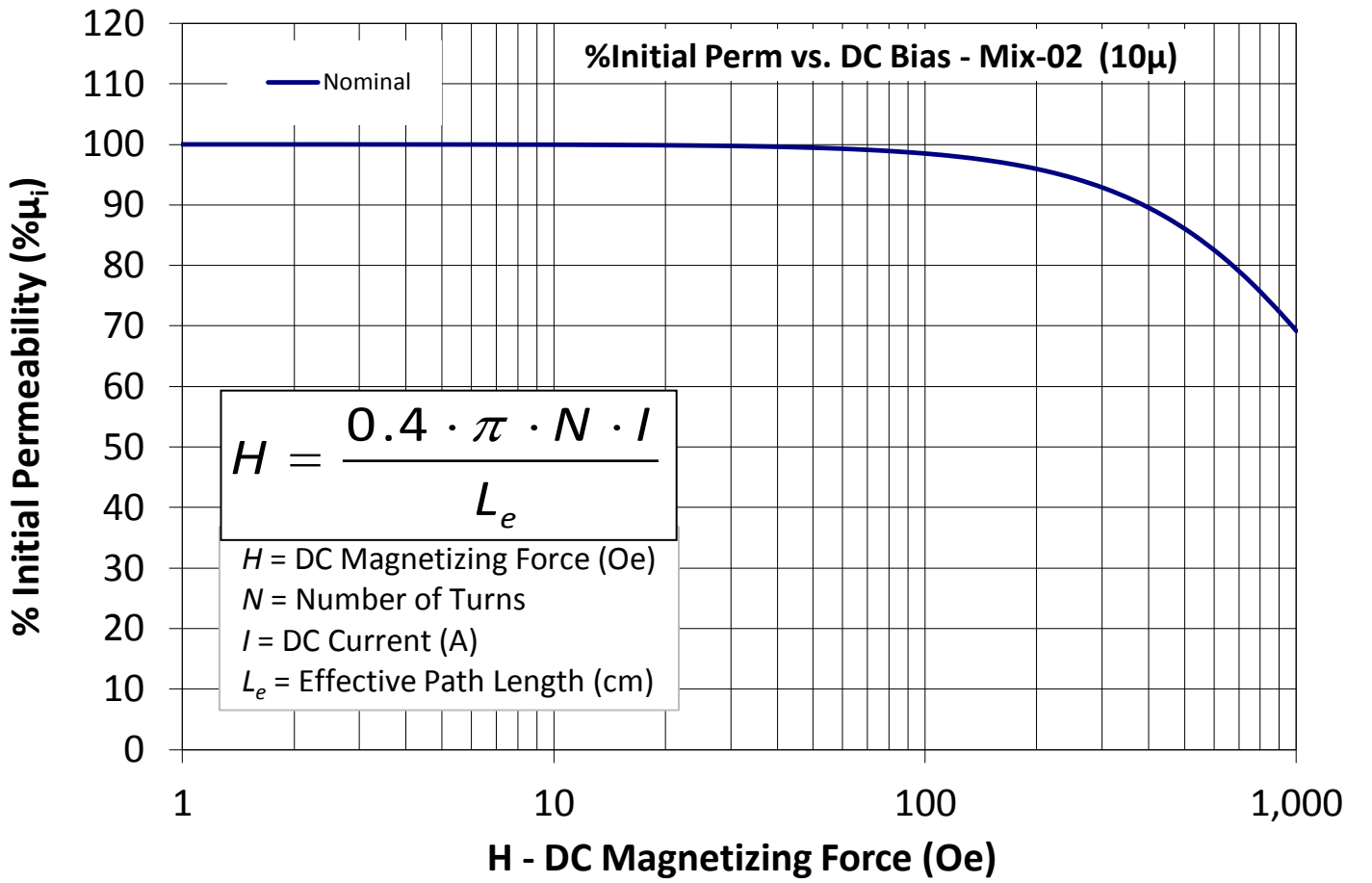
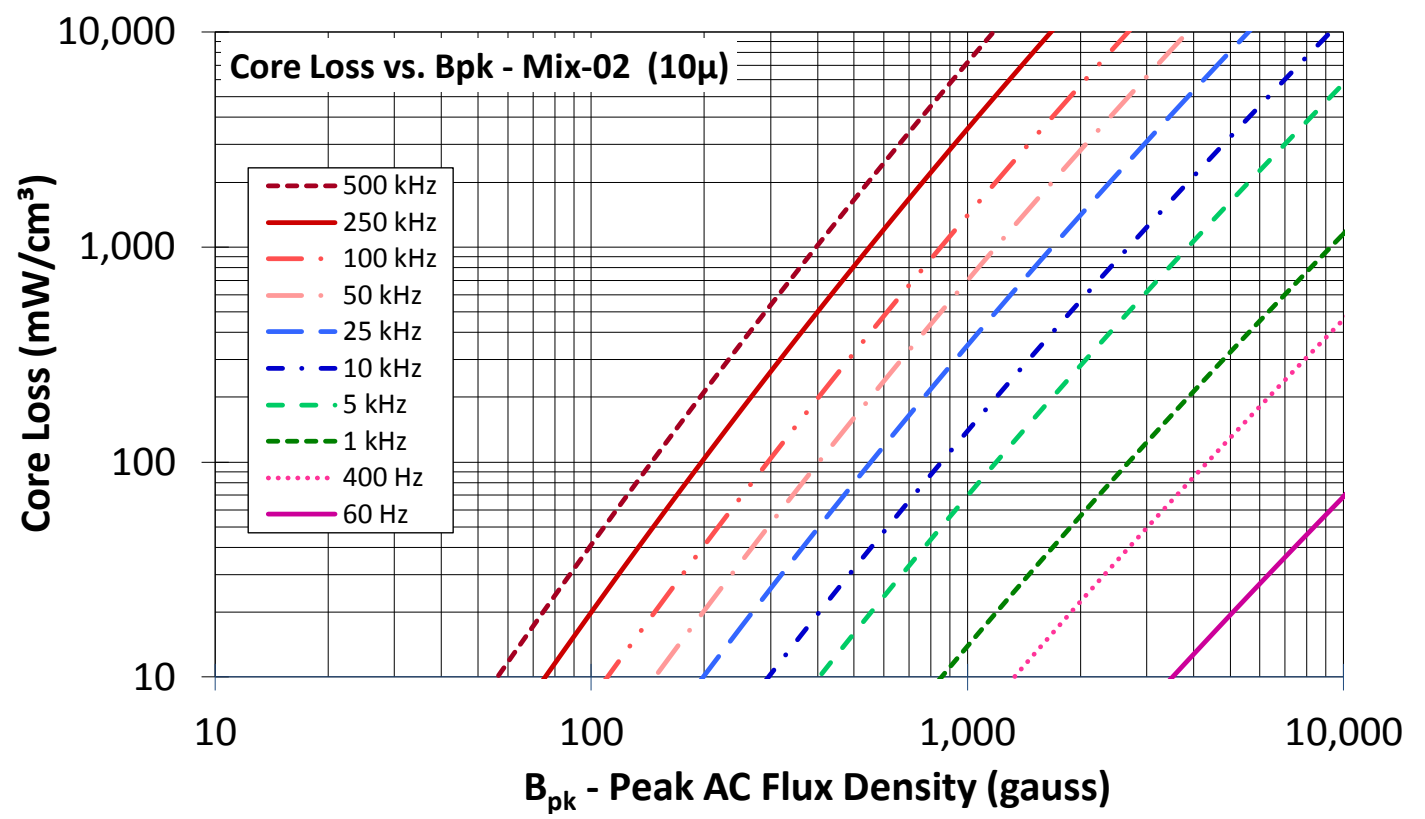


Part Number: **T300-2**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	77.22 mm 77.98 mm	3.040 in 3.070 in
ID	(nom. - bare core) (min. - after coating)	49.02 mm 48.26 mm	1.930 in 1.900 in
Ht	(nom. - bare core) (max. - after coating)	12.70 mm 13.46 mm	0.500 in 0.530 in
Mass	(approximate)	170 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.68 cm ²	
	L _e - Eff. Mag. Path Length	19.8 cm	
	V _e - Eff. Core Volume	33.4 cm ³	
	WA - Min. Eff. Window Area	18.3 cm ²	
	sa - Surface Area	179 cm ²	
	mlt - mean length per turn	8.08 cm	
Inductance	μ _i (reference)	10	
	A _L value (nominal)	11.4 nH/N ²	
	Test Winding	N=40, #20 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
A _L tolerance	±5%		
Core Loss & Q	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=4.00E+09, b=3.00E+08, c=2.70E+06, d=9.60E-16	
	Q test winding	N=40, #20 AWG	
	Q frequency	2 MHz	
Q min on HP4342A	261		
DC Saturation	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=1.83E-07, c=1.46, d=0.00	
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	95.9%	
Percent Initial Perm(min.)	94.8%		
Coating/Pkg	Coating Type:	Red/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	54 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	38	48	60	76	95	119	149	186	232	289	360
		Rdc(Ω)	6.3 m	12.7 m	25.2 m	50.8 m	100.9 m	201.1 m	400.4 m	795.0 m	1.6	3.1	6.2
Full Winding	Turns	96	148	229	355	549	850	1,316	2,037	3,153	4,880	7,553	
	Rdc(Ω)	15.9 m	39.1 m	96.2 m	237.2 m	583.3 m	1.4	3.5	8.7	21.4	52.8	129.9	