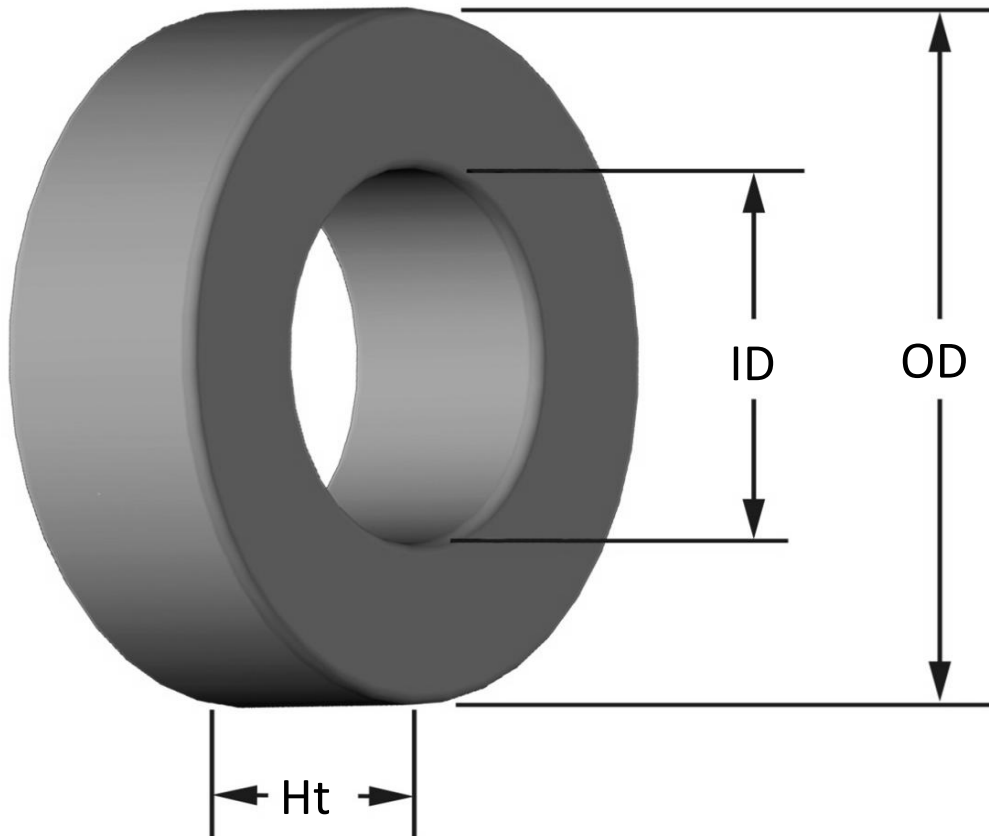


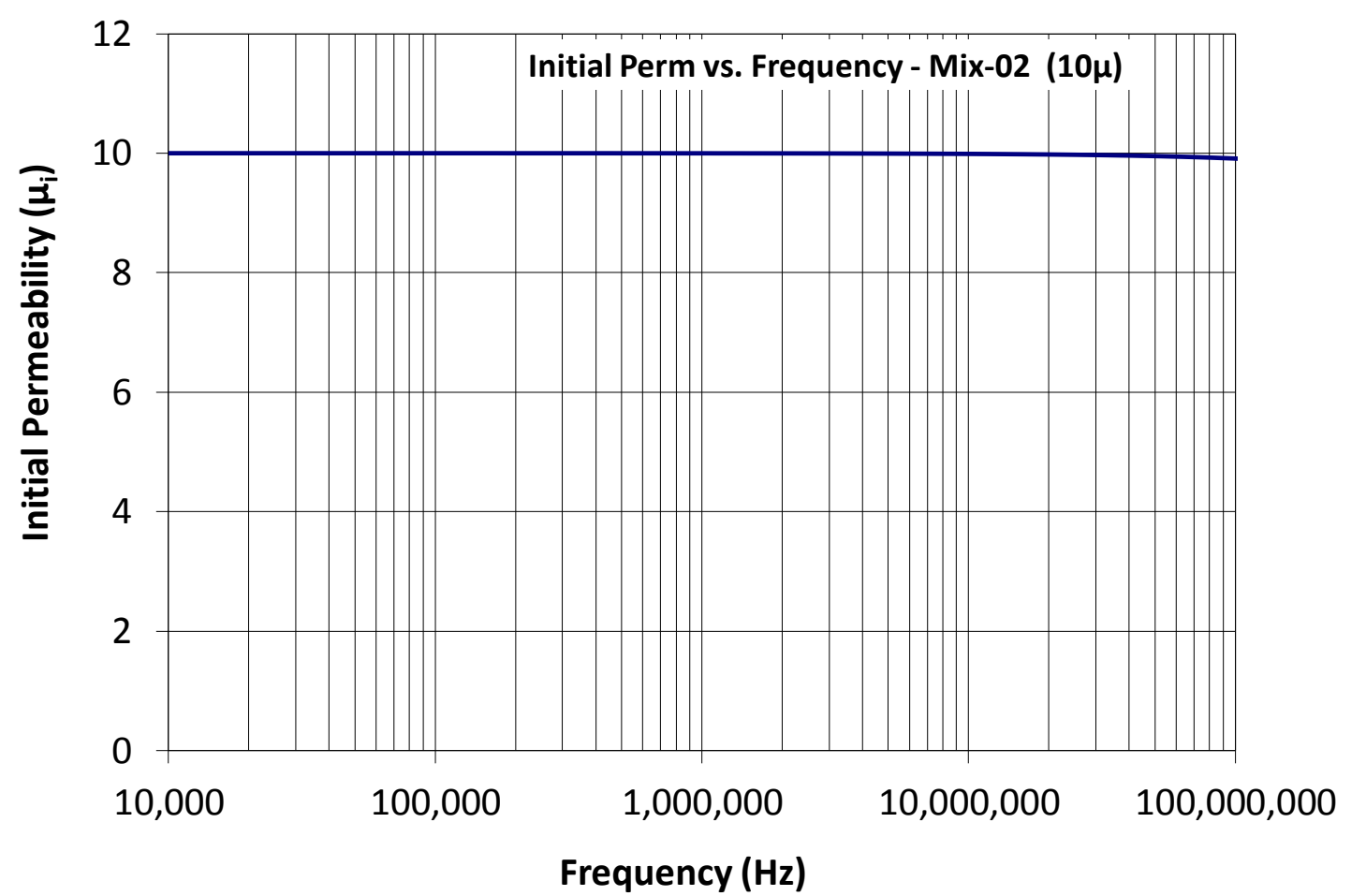
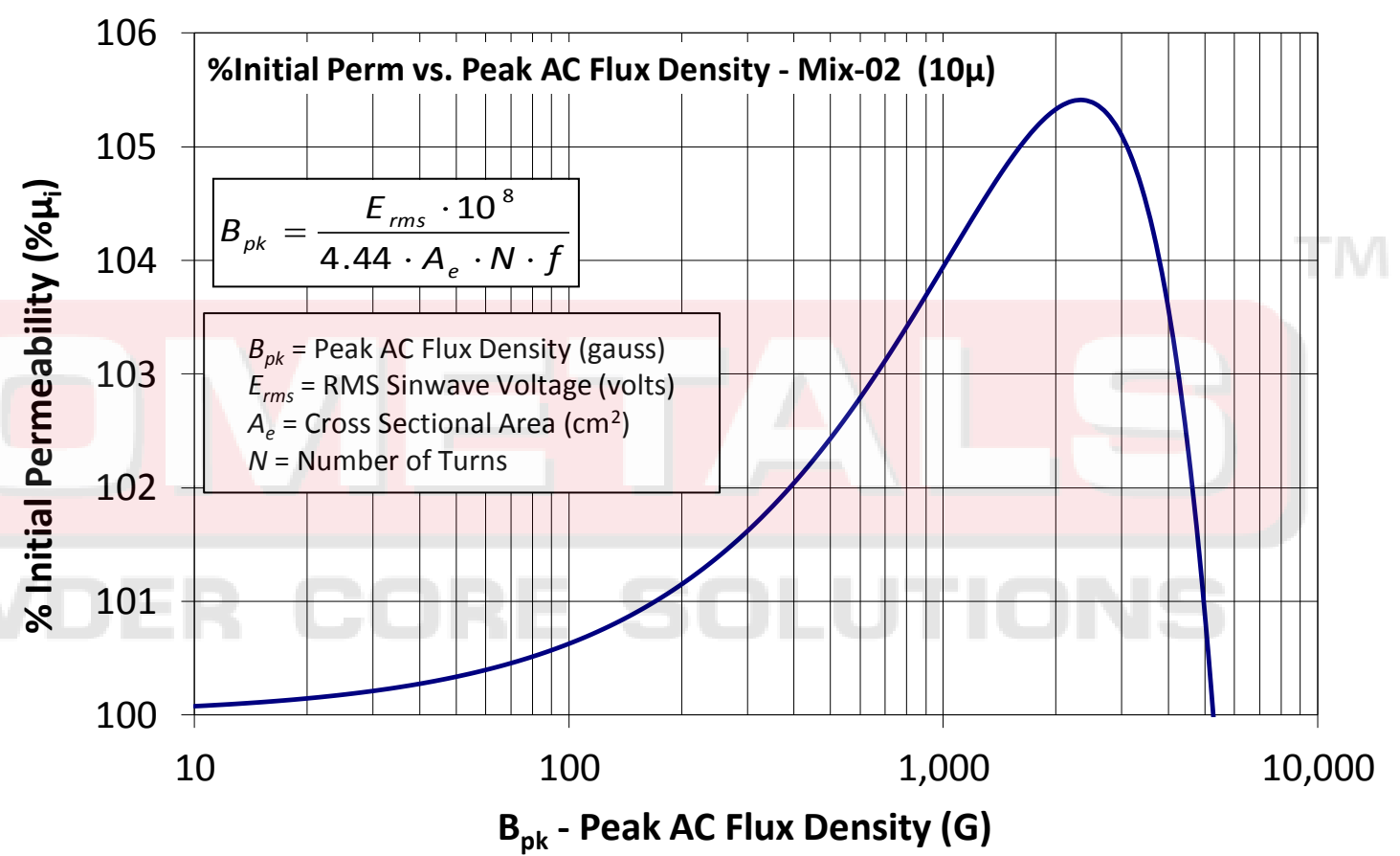
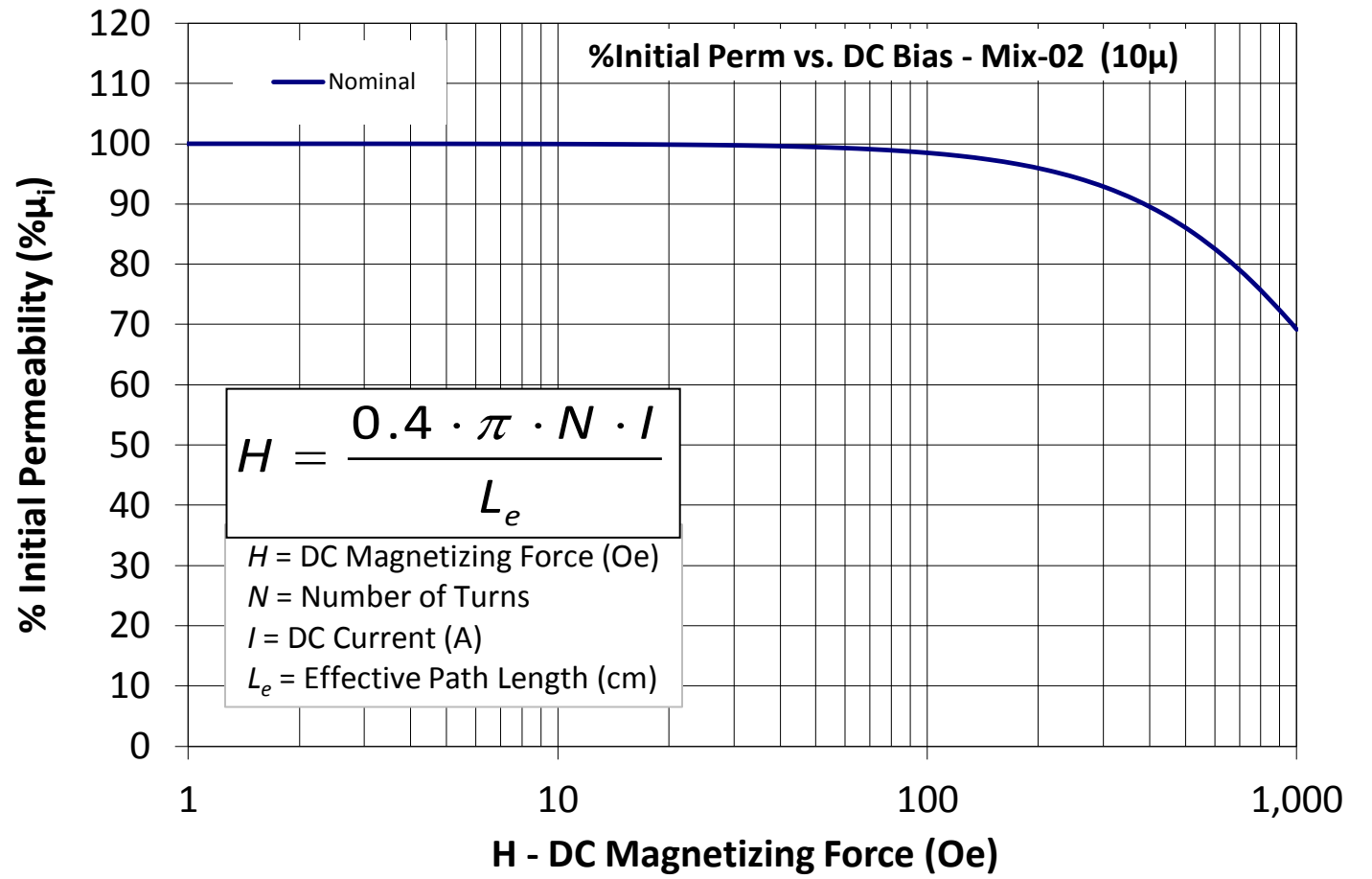
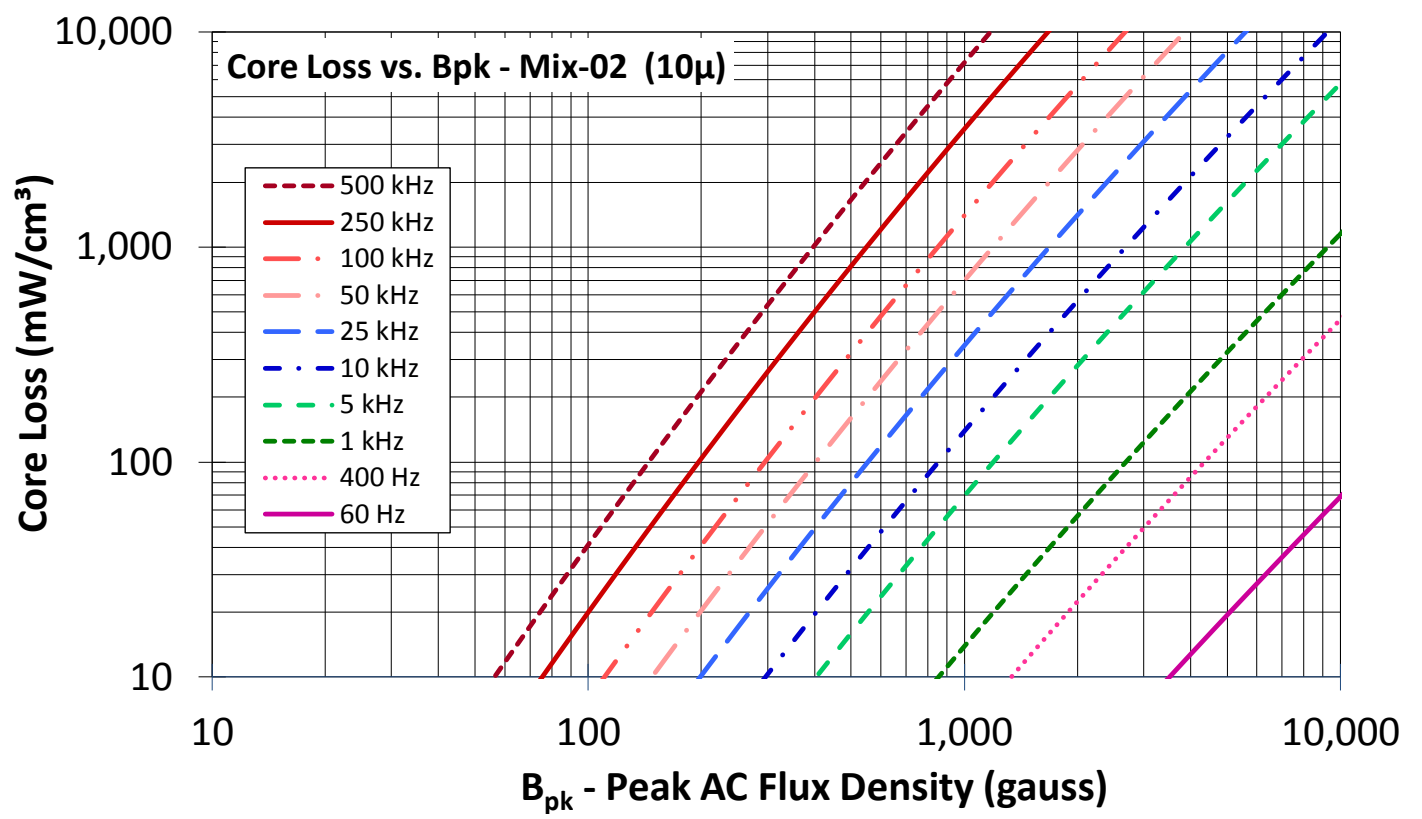


**Part Number:** T200-2B

Revision 20190524 - Generated 2019-May-30



<b>OD</b>	(nom. - bare core) (max. - after coating)	50.80 mm 51.44 mm	2.000 in 2.025 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	31.75 mm 31.12 mm	1.250 in 1.225 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	25.40 mm 26.16 mm	1.000 in 1.030 in
<b>Mass</b>	(approximate)	150 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	2.31 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	13.0 cm	
	V <sub>e</sub> - Eff. Core Volume	29.8 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	7.60 cm <sup>2</sup>	
	sa - Surface Area	110 cm <sup>2</sup>	
	mlt - mean length per turn	8.82 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	10	
	A <sub>L</sub> value (nominal)	21.8 nH/N <sup>2</sup>	
	Test Winding	N=40, #20 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
	A <sub>L</sub> tolerance	±5%	
<b>Core Loss &amp; Q</b>	Core Loss(mW/cm <sup>3</sup> )=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B <sub>pk</sub> 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	332	
<b>DC Saturation</b>	%μ <sub>i</sub> =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=1.83E-07, c=1.46, d=0.00	
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	95.9%	
	Percent Initial Perm(min.)	94.8%	
<b>Coating/Pkg</b>	Coating Type:	Red/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	75 Pcs/Box	



<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	Turns	24	30	38	48	60	76	95	119	149	185	231
		Rdc(Ω)	4.4 m	8.7 m	17.4 m	35.0 m	69.6 m	140.2 m	278.8 m	555.4 m	1.1	2.2	4.3
<b>Full Winding</b>	Turns	40	62	95	148	228	353	547	847	1,311	2,029	3,140	
	Rdc(Ω)	7.3 m	17.9 m	43.6 m	108.0 m	264.5 m	651.4 m	1.6	4.0	9.7	24.0	58.9	