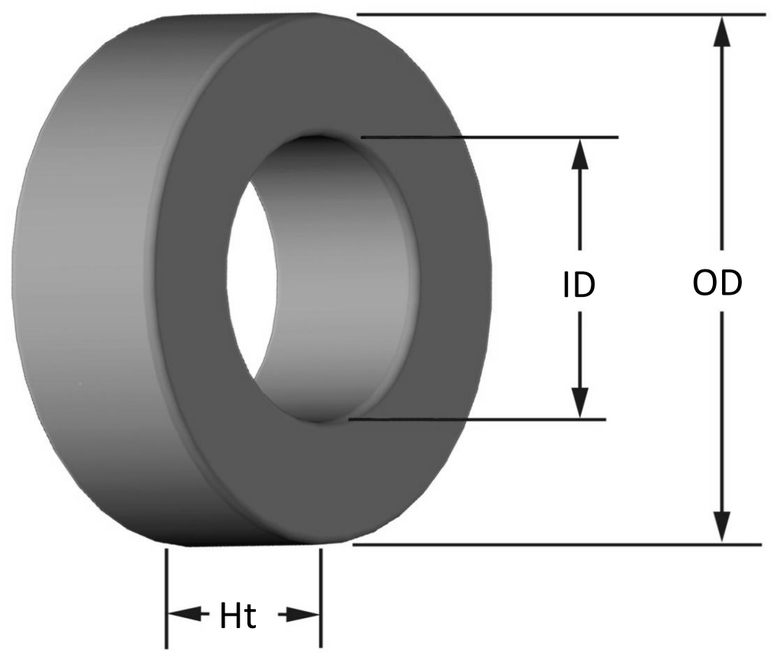
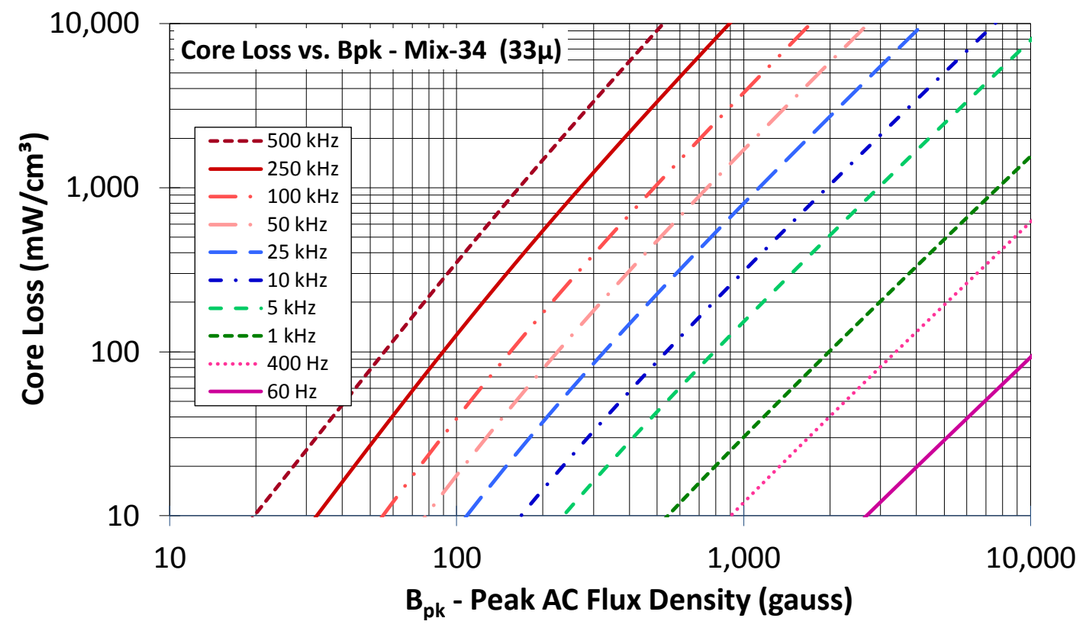
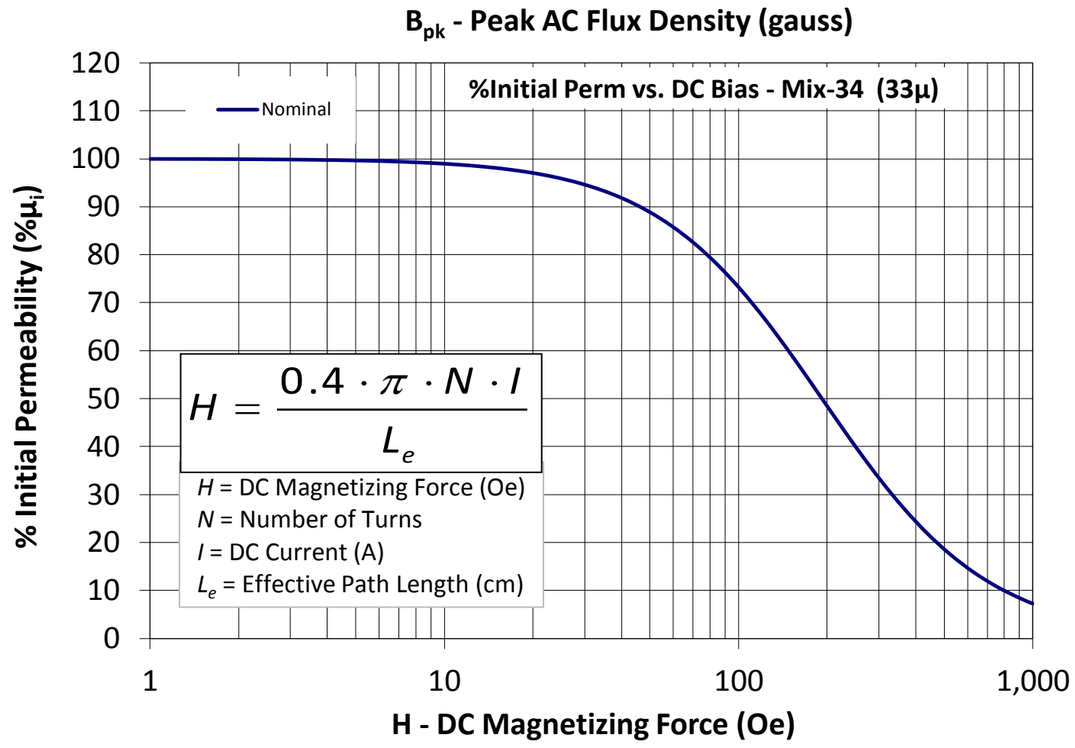
MICROMETALS™
POWDER CORE SOLUTIONS

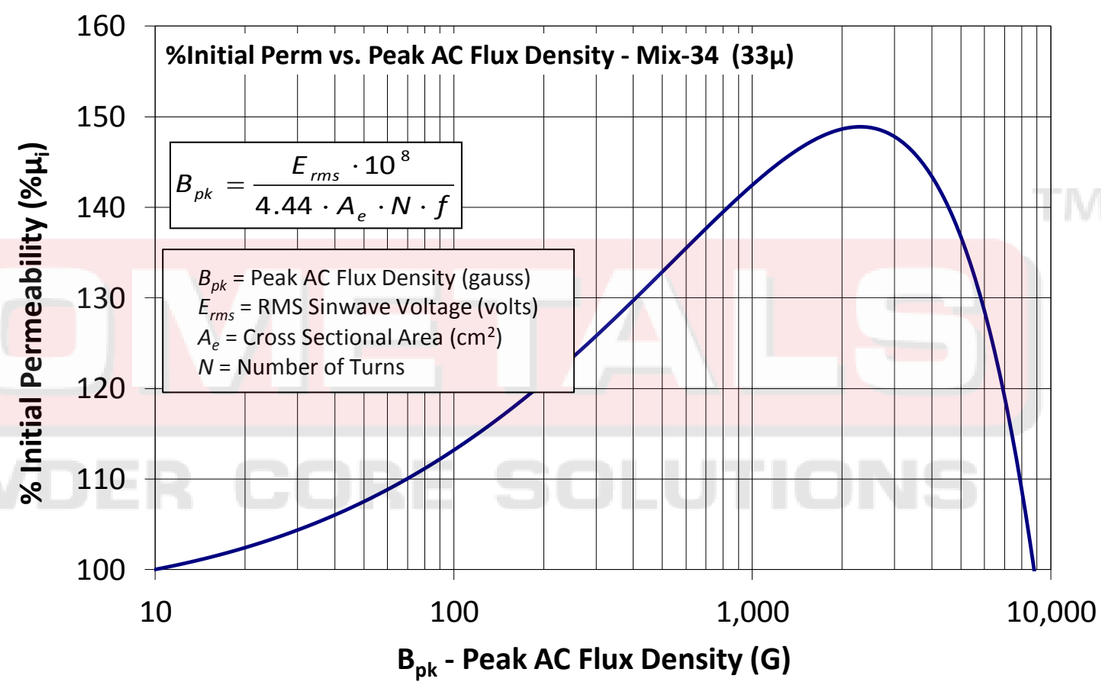
Part Number:	T225-34

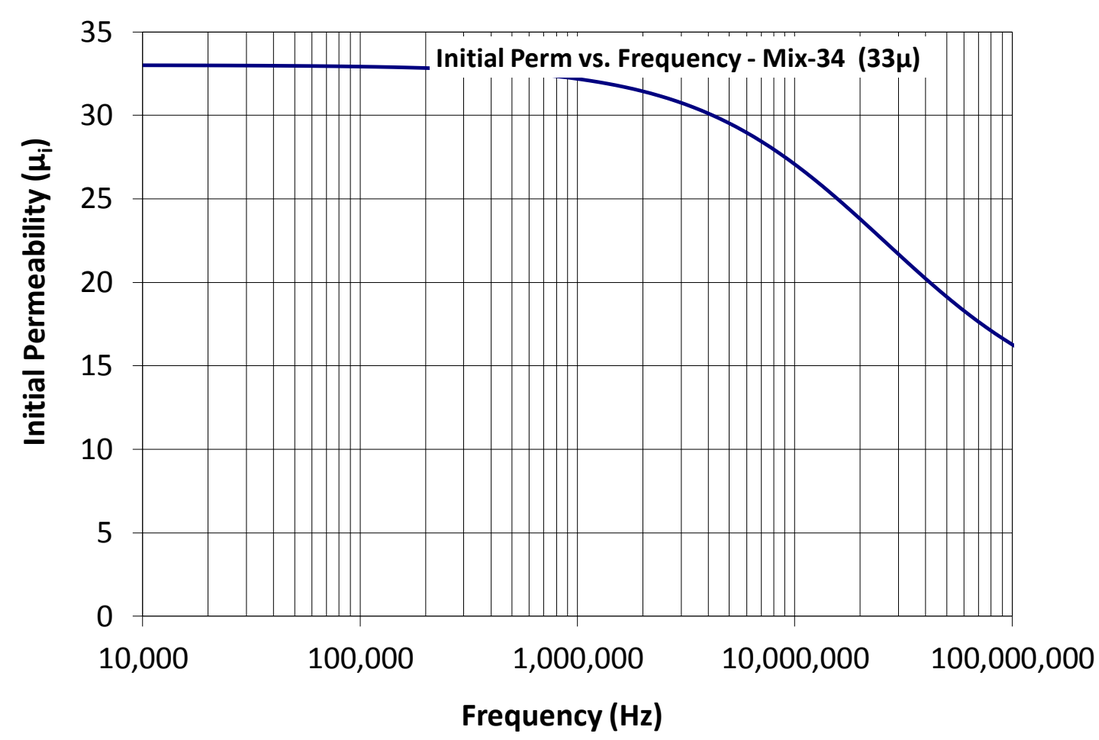
Revision 20190524 - Generated 2019-May-30











OD	(nom. - bare core)	57.15 mm	2.250 in
	(max. - after coating)	57.79 mm	2.275 in
ID	(nom. - bare core)	35.69 mm	1.405 in
	(min. - after coating)	35.05 mm	1.380 in
Ht	(nom. - bare core)	13.97 mm	0.550 in
	(max. - after coating)	14.73 mm	0.580 in
Mass	(approximate)	130 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.42 cm²	
	L_e - Eff. Mag. Path Length	14.6 cm	
	V_e - Eff. Core Volume	20.7 cm³	
	WA - Min. Eff. Window Area	9.65 cm²	
	sa - Surface Area	108 cm²	
	mlt - mean length per turn	6.97 cm	
Inductance	μ_i(reference)	33	
	A_L value (nominal)	37 nH/N²	
	Test Winding	N=100, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.63 V	
	A_L tolerance	±10%	
Core Loss	Core Loss(mW/cm³)= $\frac{f}{\frac{a}{Bpk^3}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}}+d\cdot Bpk^2\cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and:		
	a=1.10E+09, b=3.30E+07, c=2.50E+06, d=7.70E-14		
	Bpk	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	82 mW/cm³	
	Core Loss (maximum)	94 mW/cm³	
DC Saturation	$\%\mu_i = \frac{1}{a+b\cdot H^c}+d$		
	where H expressed in oersteds, and:		
	a=1.00E-02, b=3.00E-06, c=1.54, d=0.00		
	H_{DC}	100 Oe	
	Percent Initial Perm(nom.)	73.2%	
	Percent Initial Perm(min.)	67.4%	
Coating/Pkg	Coating Type:	Gray/Blue Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	120 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	27	34	43	54	68	86	107	134	168	209	261
		Rdc(Ω)	3.9 m	7.8 m	15.6 m	31.1 m	62.4 m	125.4 m	248.2 m	494.4 m	985.7 m	2.0	3.9
	Full Winding	Turns	51	78	121	187	290	449	694	1,075	1,663	2,574	3,985
		Rdc(Ω)	7.3 m	17.8 m	43.9 m	107.8 m	266.0 m	654.9 m	1.6	4.0	9.8	24.0	59.1

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