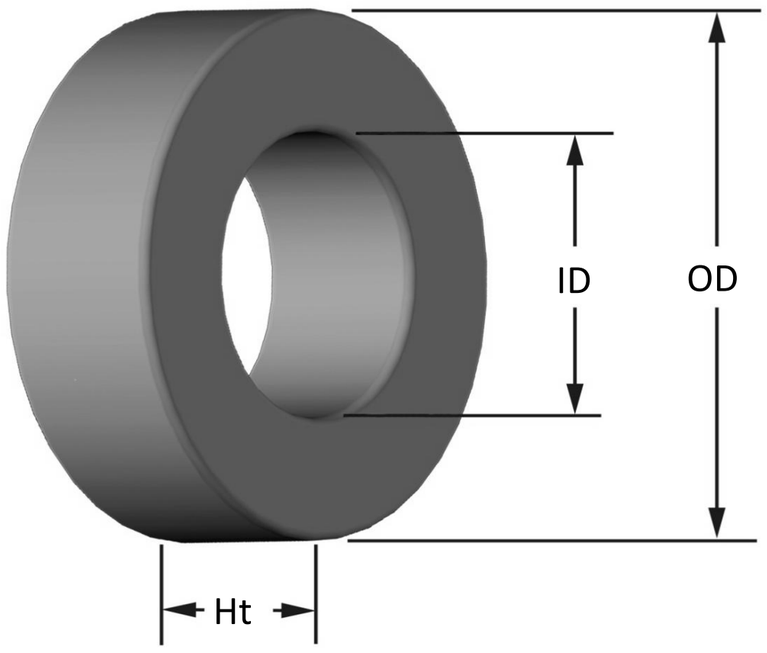
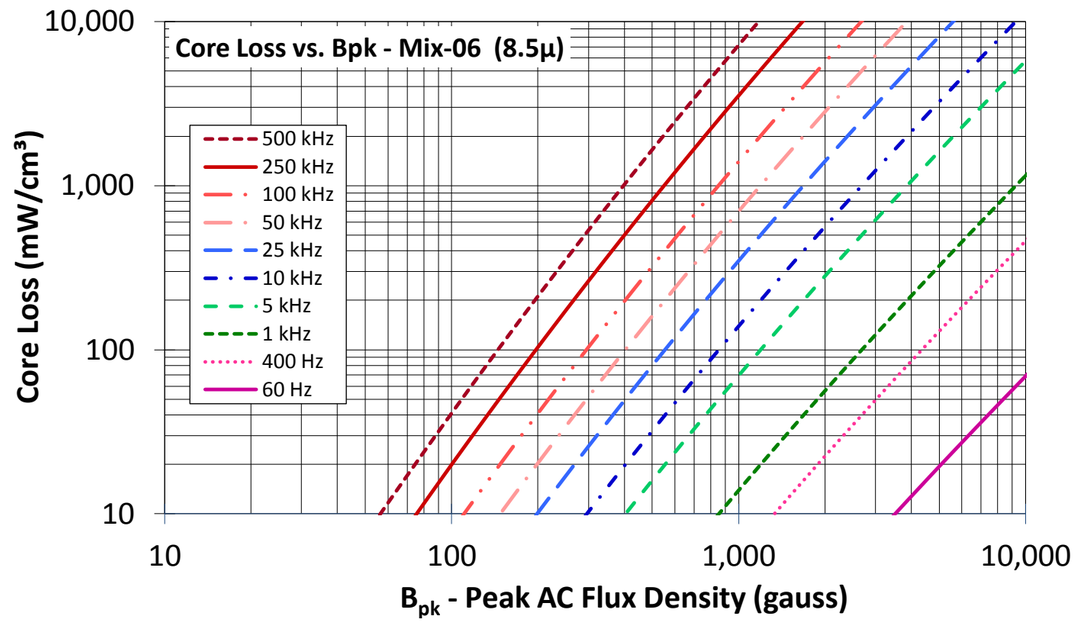
MICROMETALS™
POWDER CORE SOLUTIONS

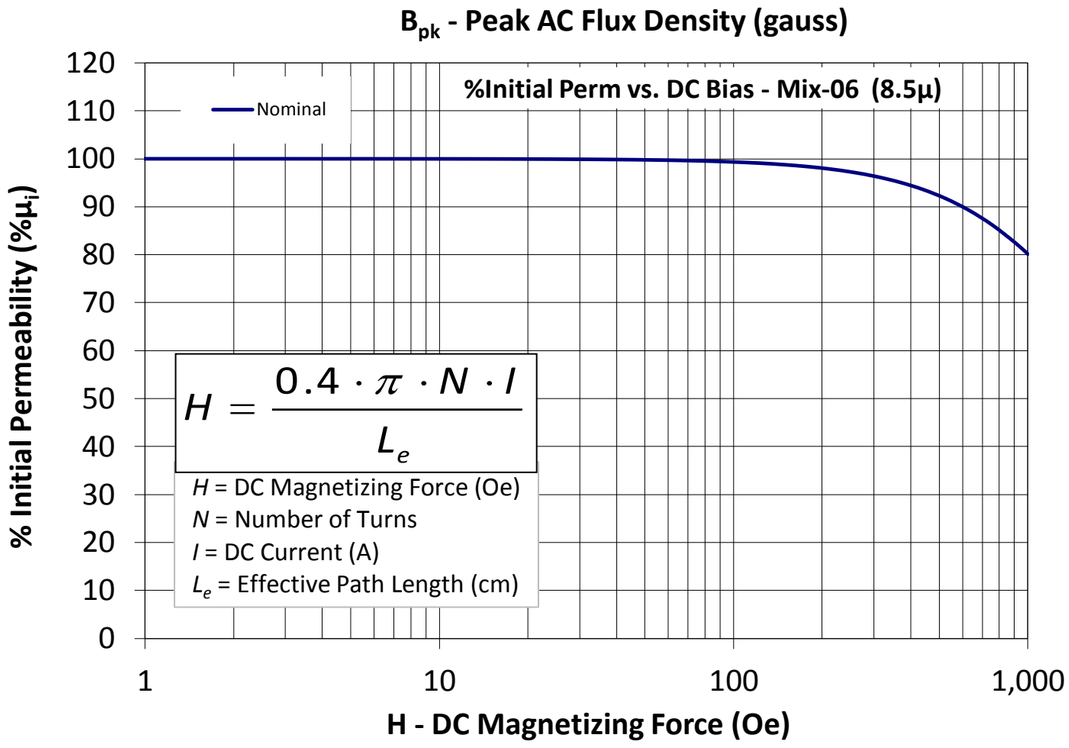
Part Number:	T200-6

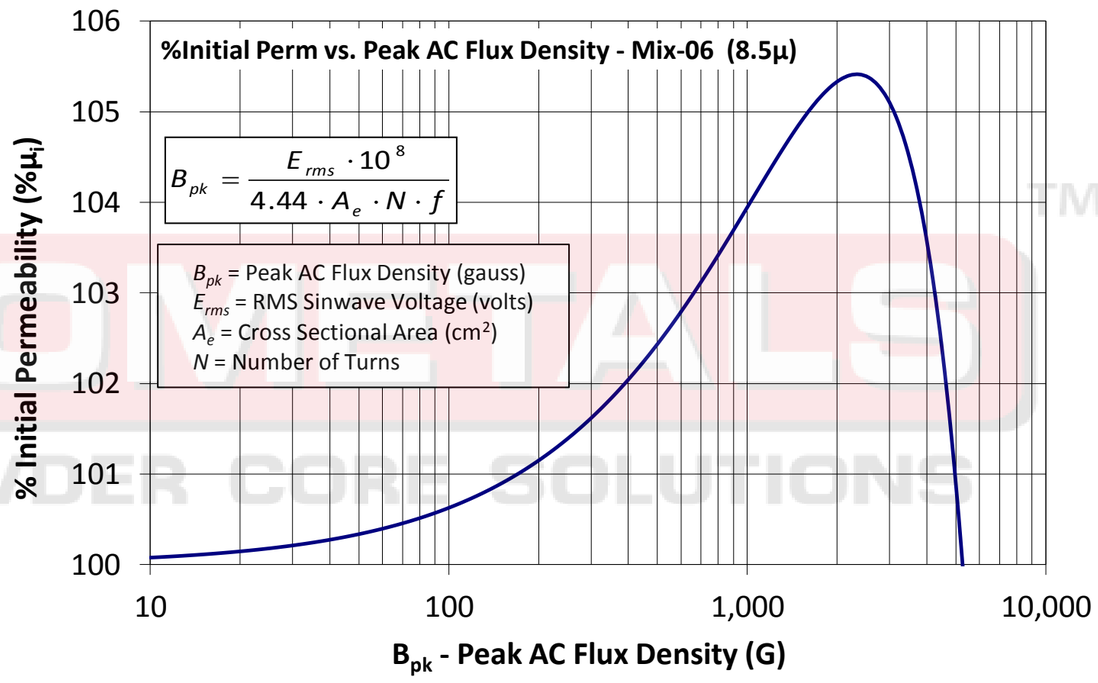
Revision 20190524 - Generated 2019-May-30

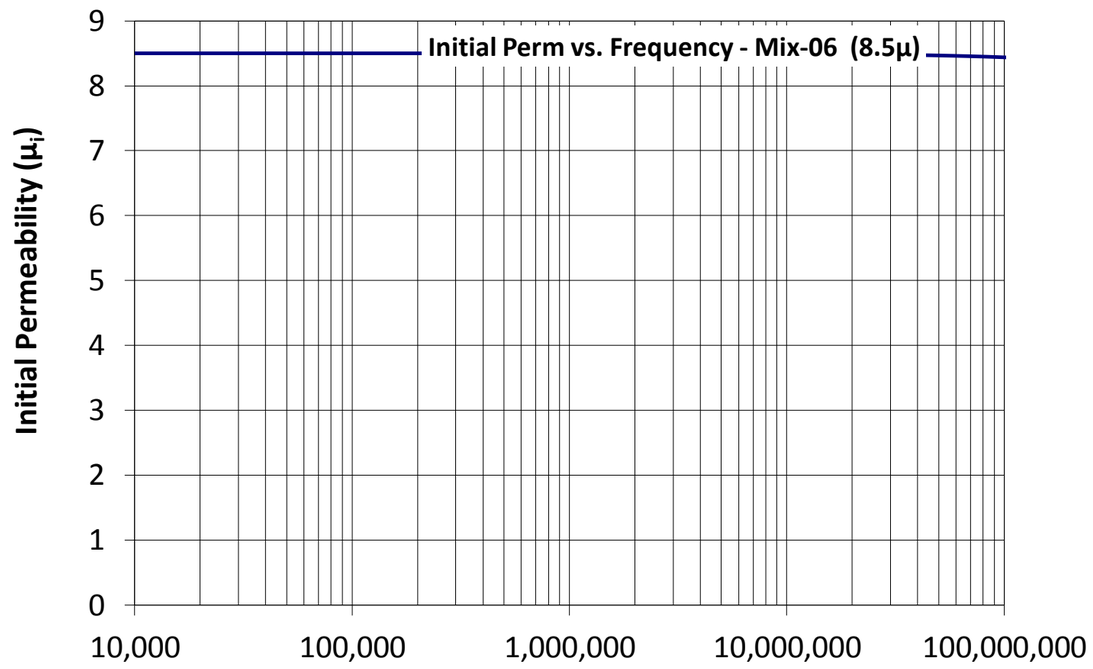


OD	(nom. - bare core)	50.80 mm	2.000 in
	(max. - after coating)	51.44 mm	2.025 in
ID	(nom. - bare core)	31.75 mm	1.250 in
	(min. - after coating)	31.12 mm	1.225 in
Ht	(nom. - bare core)	13.97 mm	0.550 in
	(max. - after coating)	14.73 mm	0.580 in
Mass	(approximate)	82 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.27 cm²	
	L_e - Eff. Mag. Path Length	13.0 cm	
	V_e - Eff. Core Volume	16.4 cm³	
	WA - Min. Eff. Window Area	7.60 cm²	
	sa - Surface Area	88.4 cm²	
	mlt - mean length per turn	6.53 cm	
Inductance	μ_i(reference)	8.5	
	A_L value (nominal)	10.4 nH/N²	
	Test Winding	N=30, #18 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
	A_L tolerance	±5%	
Core Loss & Q	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=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.90E-16		
	Q test winding	N=30, #18 AWG	
	Q frequency	3 MHz	
	Q min on HP4342A	398	
DC Saturation	$\%\mu_i = \frac{1}{a+b\cdot H^{c}}+d$		
	where H expressed in oersteds, and:		
	a=1.00E-02, b=4.87E-08, c=1.57, d=0.00		
	H_{DC}	200 Oe	
	Percent Initial Perm(nom.)	98.1%	
	Percent Initial Perm(min.)	97.4%	
Coating/Pkg	Coating Type:	Yellow/Clear 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	24	30	38	48	60	76	95	119	149	185	231
	Rdc(Ω)	3.2 m	6.4 m	12.9 m	25.9 m	51.6 m	103.9 m	206.5 m	411.4 m	819.3 m	1.6	3.2
Full Winding	Turns	40	62	95	148	228	353	547	847	1,311	2,029	3,140
	Rdc(Ω)	5.4 m	13.2 m	32.3 m	80.0 m	196.0 m	482.5 m	1.2	2.9	7.2	17.7	43.7

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