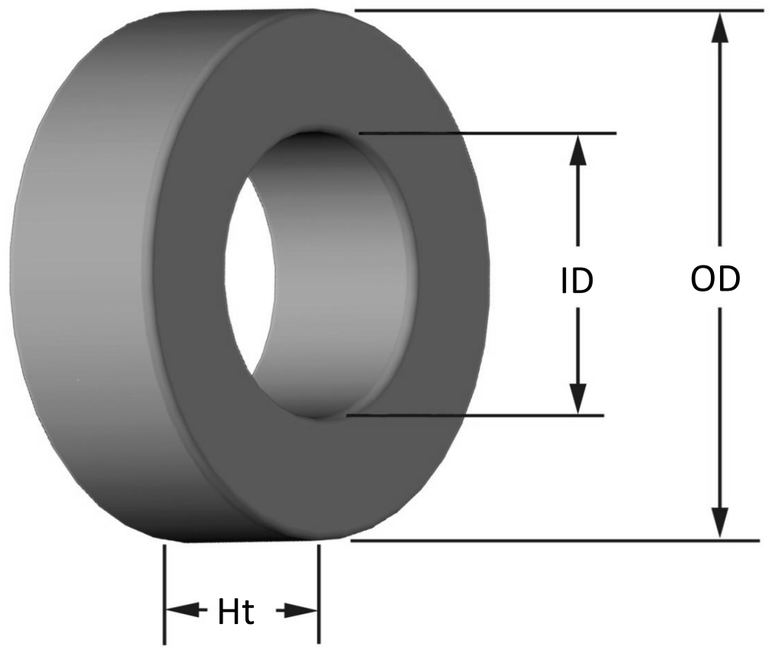
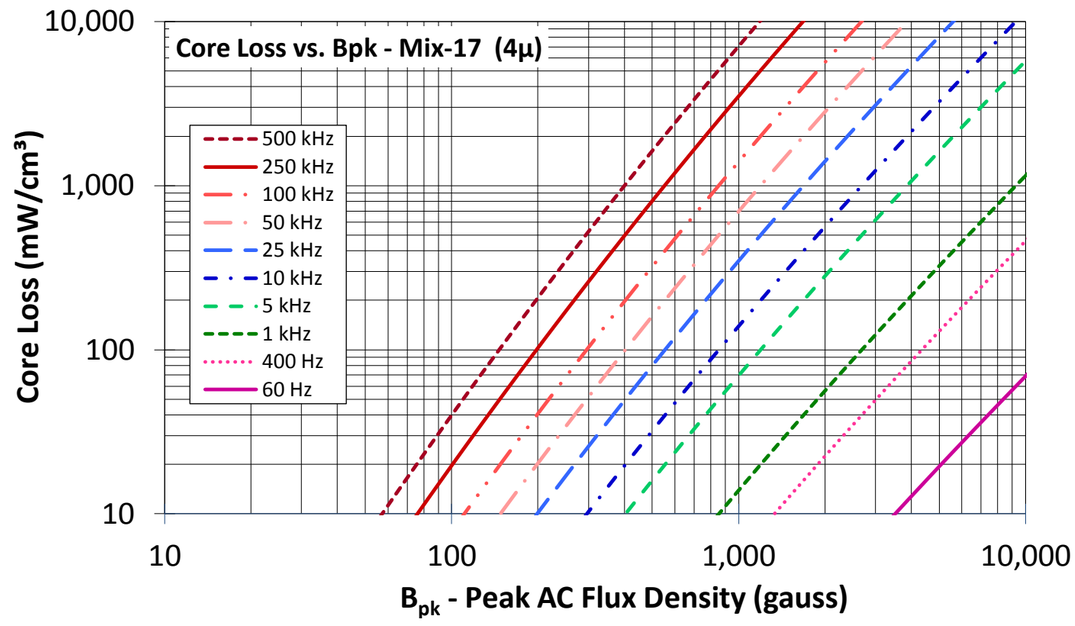
MICROMETALS™
POWDER CORE SOLUTIONS

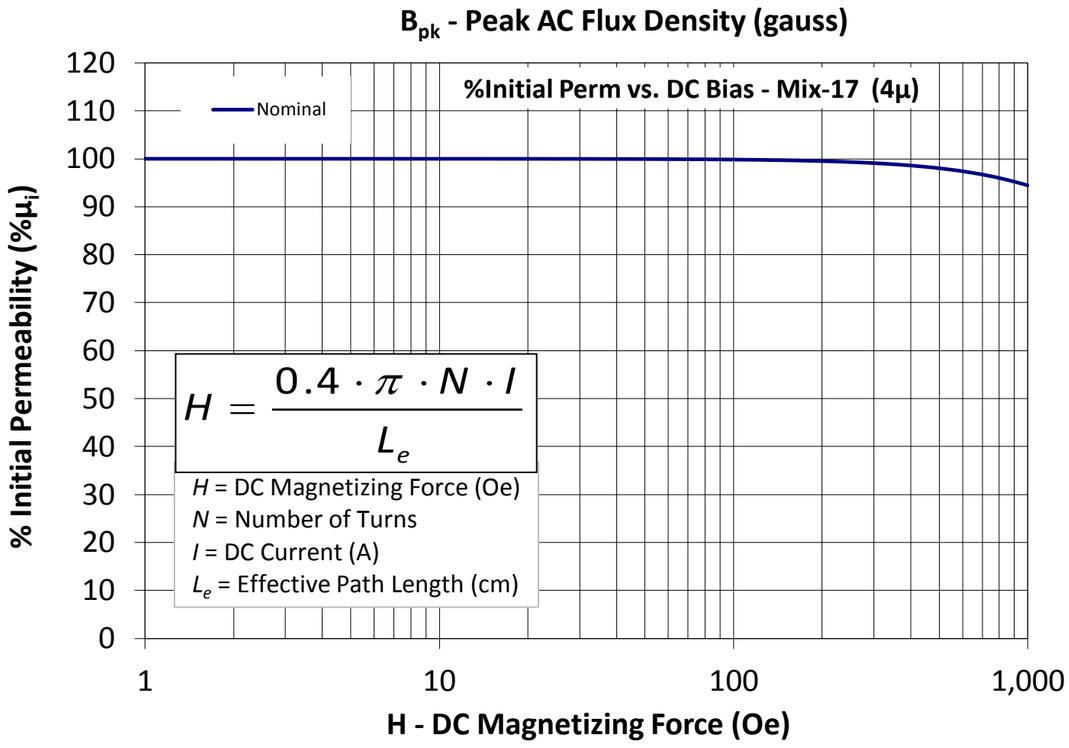
Part Number:	T106-17

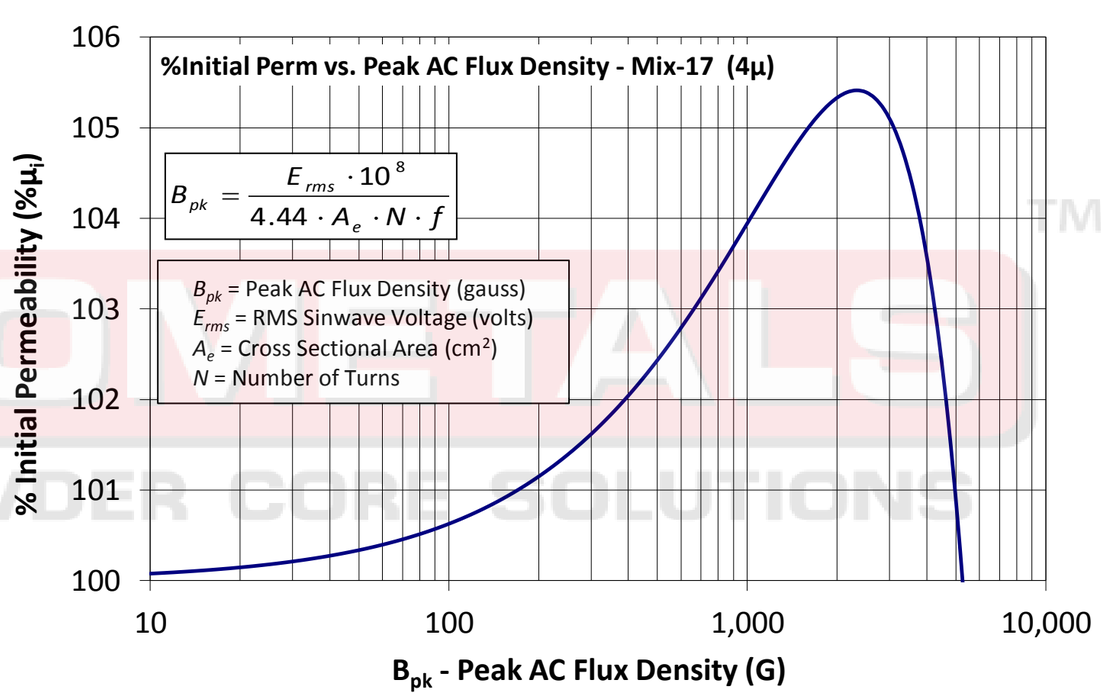
Revision 20190524 - Generated 2019-May-30

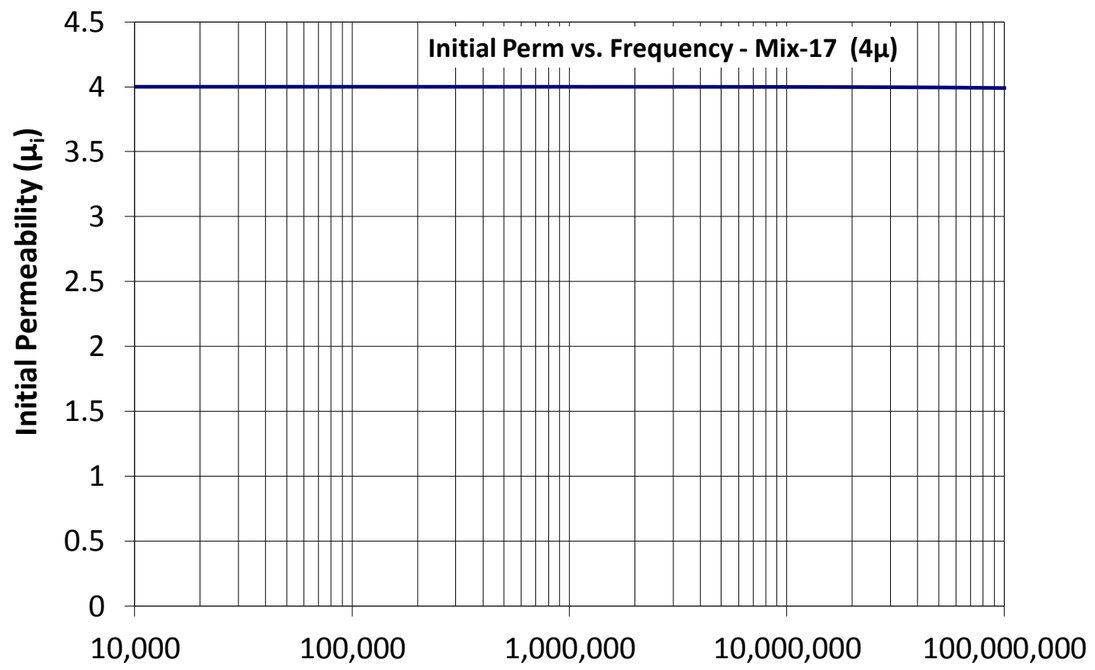


OD	(nom. - bare core)	26.92 mm	1.060 in
	(max. - after coating)	27.43 mm	1.080 in
ID	(nom. - bare core)	14.48 mm	0.570 in
	(min. - after coating)	13.97 mm	0.550 in
Ht	(nom. - bare core)	11.10 mm	0.437 in
	(max. - after coating)	11.73 mm	0.462 in
Mass	(approximate)	21 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.659 cm²	
	L_e - Eff. Mag. Path Length	6.49 cm	
	V_e - Eff. Core Volume	4.28 cm³	
	WA - Min. Eff. Window Area	1.53 cm²	
	sa - Surface Area	28.1 cm²	
	mlt - mean length per turn	4.39 cm	
Inductance	μ_i(reference)	4	
	A_L value (nominal)	5.1 nH/N²	
	Test Winding	N=100, #28 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=4.40E-16		
	Q test winding	N=5, #20 AWG	
	Q frequency	50 MHz	
	Q min on HP4342A	166	
DC Saturation	$\%\mu_i = \frac{1}{a+b\cdot H^{c}}+d$		
	where H expressed in oersteds, and:		
	a=1.00E-02, b=1.34E-08, c=1.55, d=0.00		
	H_{DC}	200 Oe	
	Percent Initial Perm(nom.)	99.5%	
	Percent Initial Perm(min.)	99.4%	
Coating/Pkg	Coating Type:	Blue/Yellow Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	700 Pcs/Box	









Winding Table	**Wire Size**	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	12	15	20	26	32	41	52	65	82	102	128
		Rdc(Ω)	1.7 m	3.4 m	7.3 m	15.0 m	29.4 m	59.9 m	120.8 m	240.2 m	482.0 m	953.5 m	1.9
	Full Winding	Turns	12	19	30	46	71	110	171	264	409	633	980
		Rdc(Ω)	1.7 m	4.3 m	10.9 m	26.6 m	65.2 m	160.7 m	397.4 m	975.7 m	2.4	5.9	14.6

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