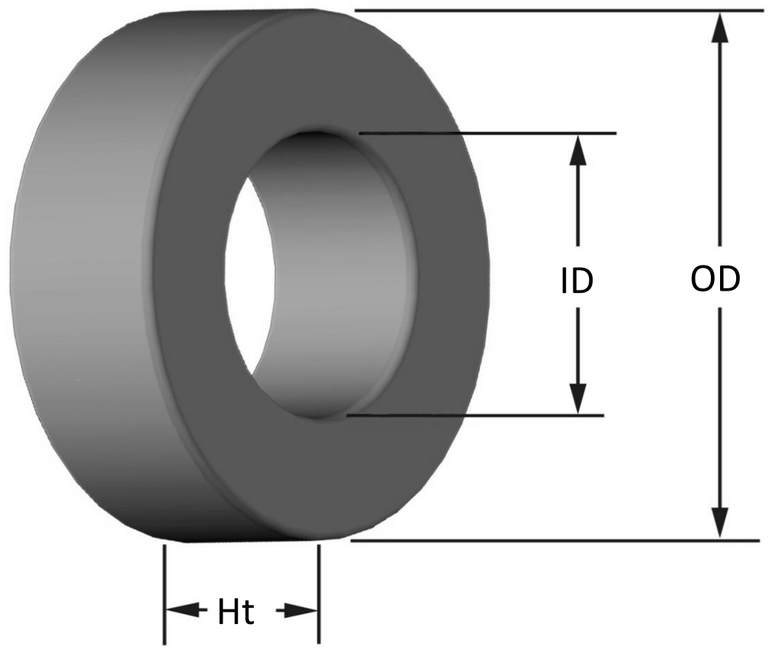
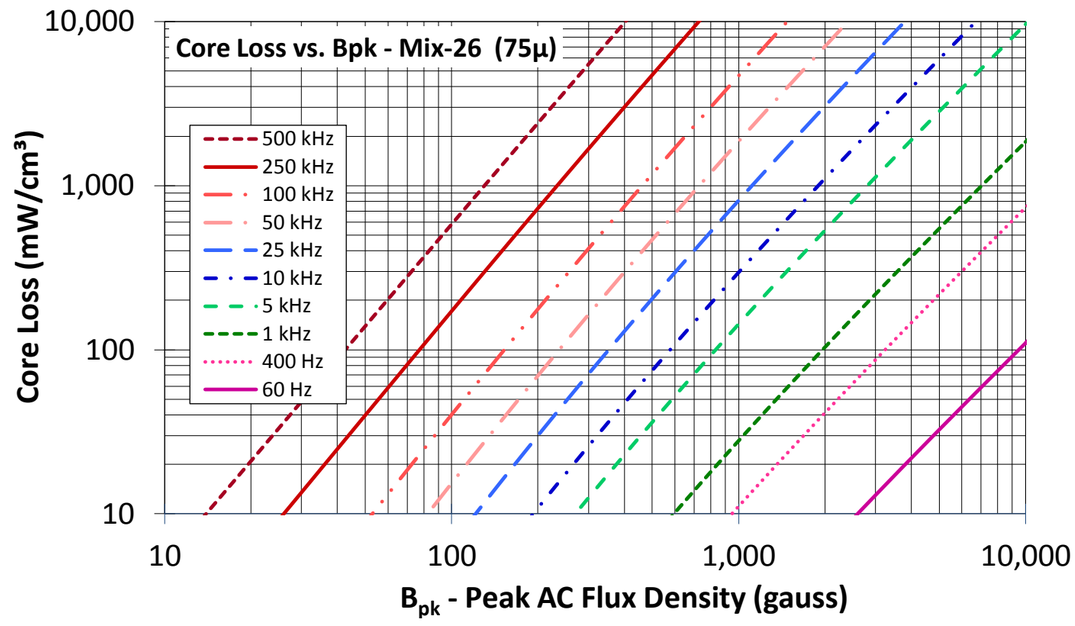
MICROMETALS™
POWDER CORE SOLUTIONS

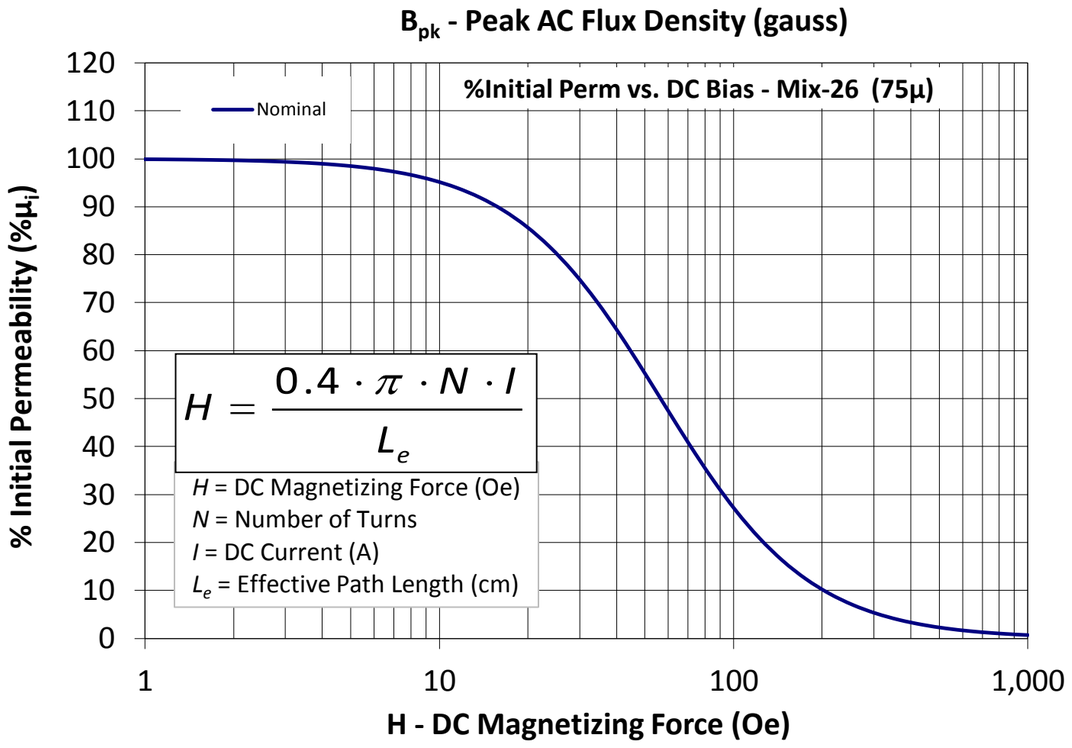
Part Number:	T650-26

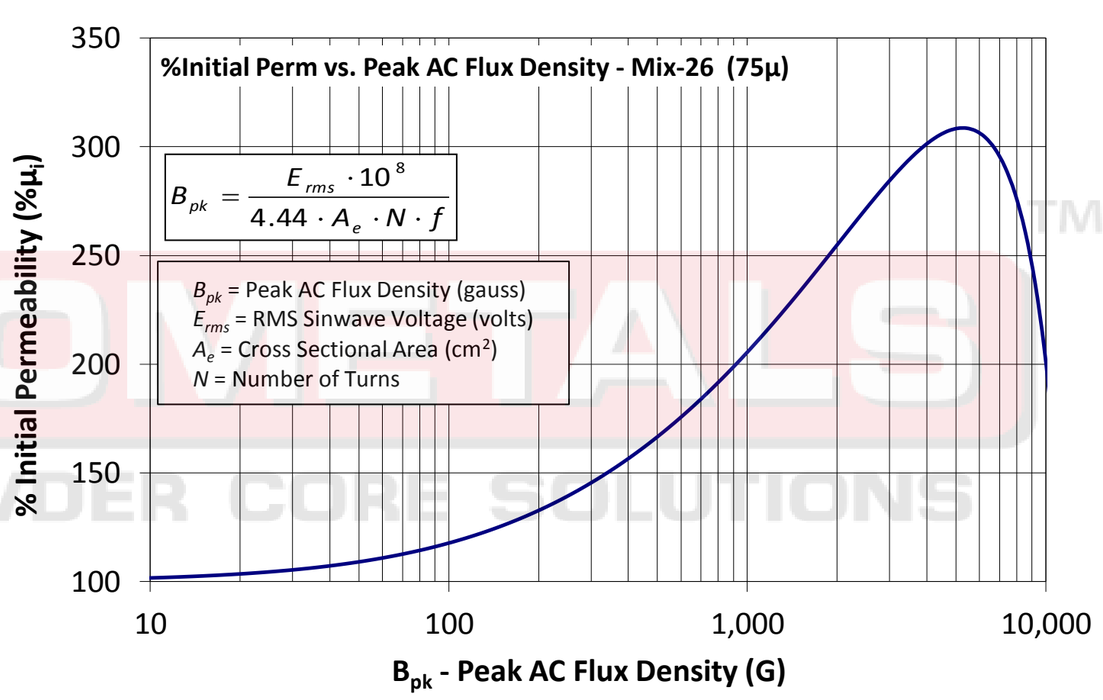
Revision 20190524 - Generated 2019-May-30

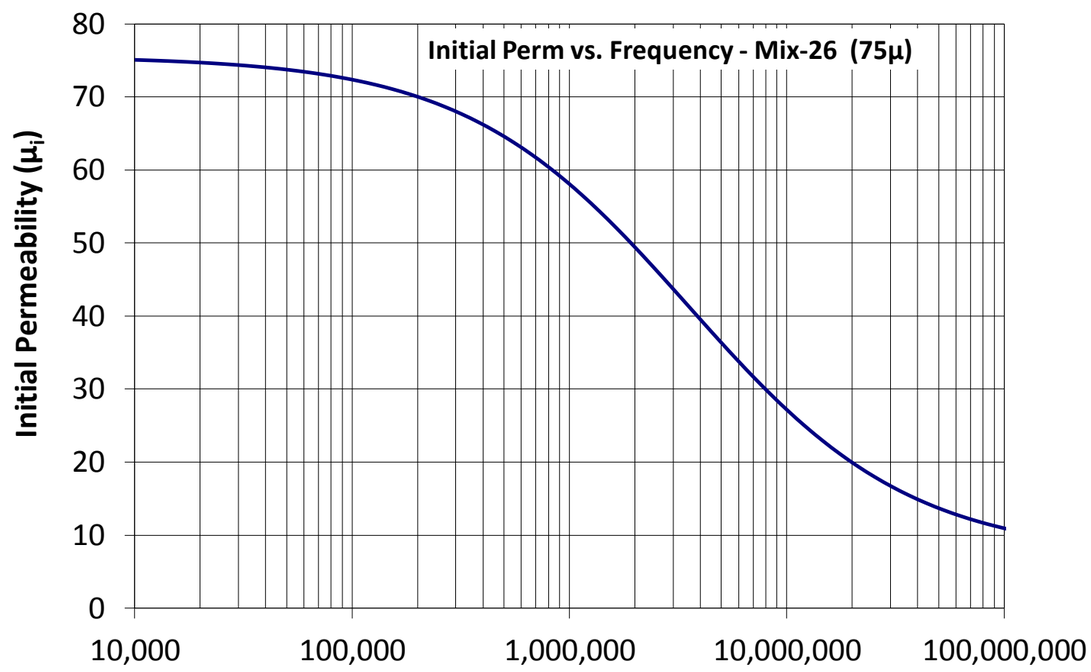


OD	(nom. - bare core)	165.10 mm	6.500 in
	(max. - after coating)	166.37 mm	6.550 in
ID	(nom. - bare core)	88.90 mm	3.500 in
	(min. - after coating)	87.63 mm	3.450 in
Ht	(nom. - bare core)	50.80 mm	2.000 in
	(max. - after coating)	52.07 mm	2.050 in
Mass	(approximate)	5,140 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	18.4 cm²	
	L_e - Eff. Mag. Path Length	39.9 cm	
	V_e - Eff. Core Volume	734 cm³	
	WA - Min. Eff. Window Area	60.3 cm²	
	sa - Surface Area	927 cm²	
	mlt - mean length per turn	22.7 cm	
Inductance	μ_i(reference)	75	
	A_L value (nominal)	434 nH/N²	
	Test Winding	N=100, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	5.0 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=1.00E+09, b=1.10E+08, c=1.90E+06, d=1.90E-13		
	Bpk	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	83 mW/cm³	
	Core Loss (maximum)	95 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=9.70E-06, c=1.72, d=0.00		
	H_{DC}	50 Oe	
	Percent Initial Perm(nom.)	55.2%	
	Percent Initial Perm(min.)	47.4%	
Coating/Pkg	Coating Type:	Yellow/White Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	2 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	71	90	112	140	175	219	273	340	423	527	657
		Rdc(Ω)	33.1 m	66.7 m	132.0 m	262.5 m	521.8 m	1.0	2.1	4.1	8.1	16.0	31.7
	Full Winding	Turns	316	489	756	1,170	1,812	2,804	4,340	6,717	10,396	16,090	24,903
		Rdc(Ω)	147.3 m	362.5 m	891.3 m	2.2	5.4	13.3	32.7	80.6	198.3	488.2	1.2 k

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