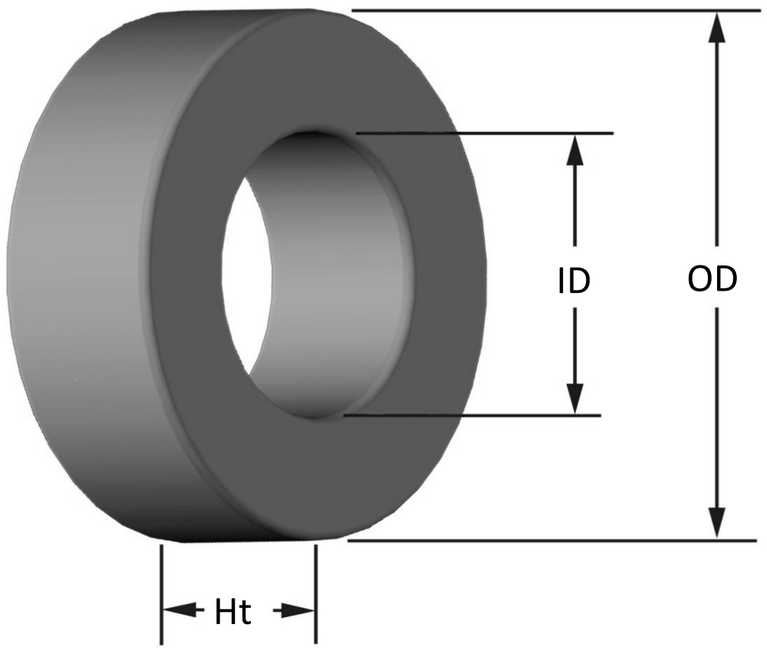
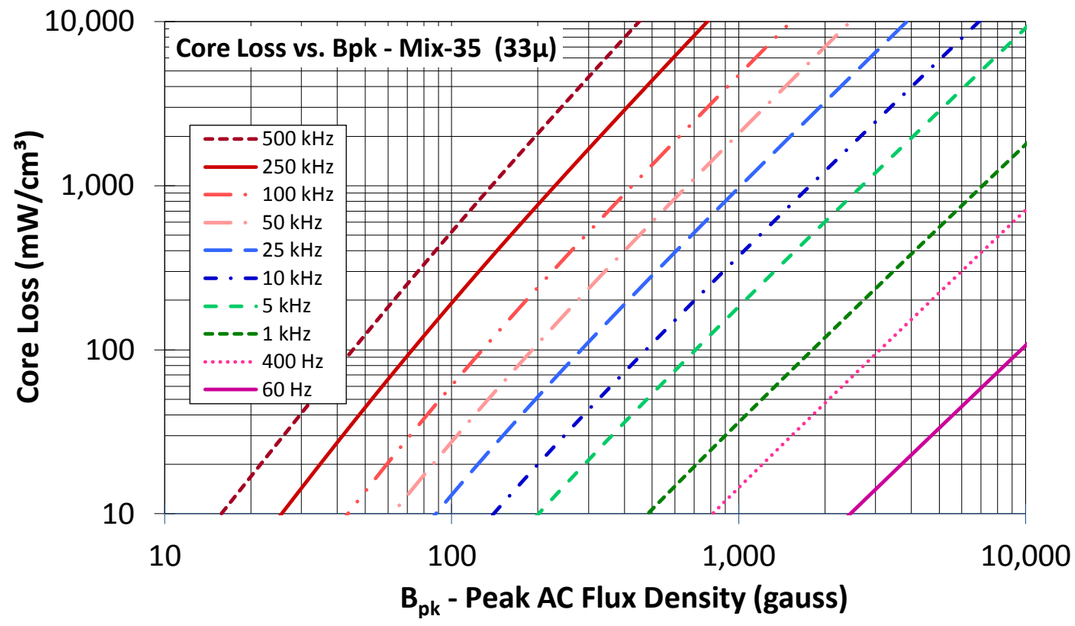
MICROMETALS™
POWDER CORE SOLUTIONS

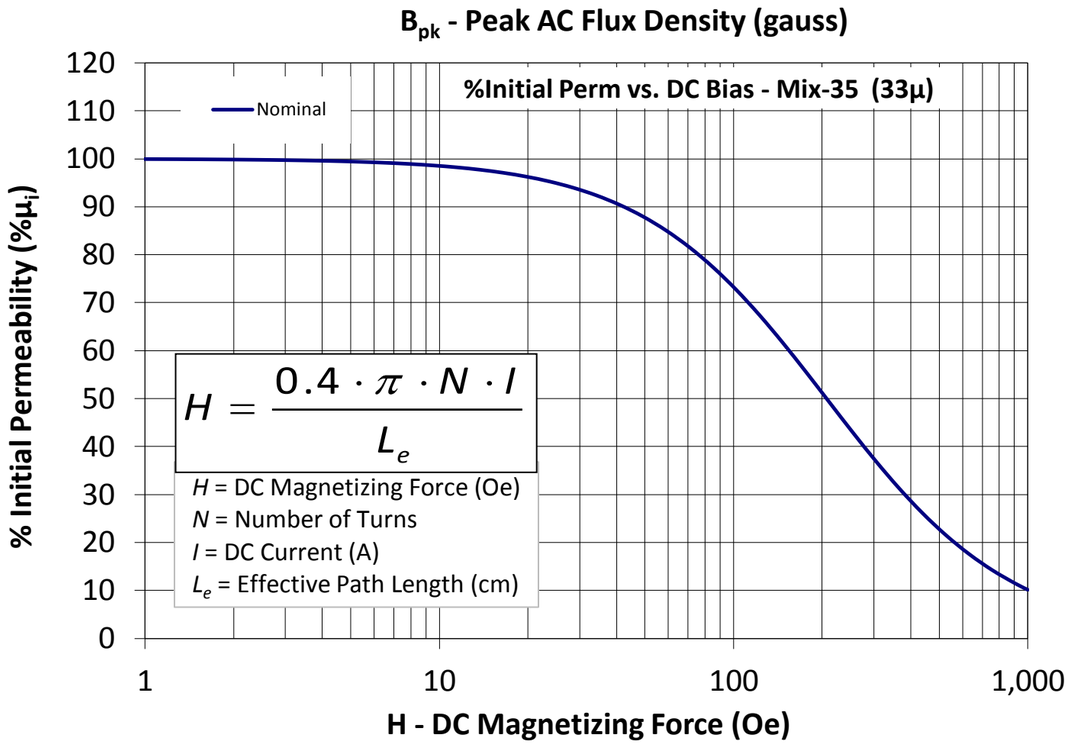
Part Number:	T131-35

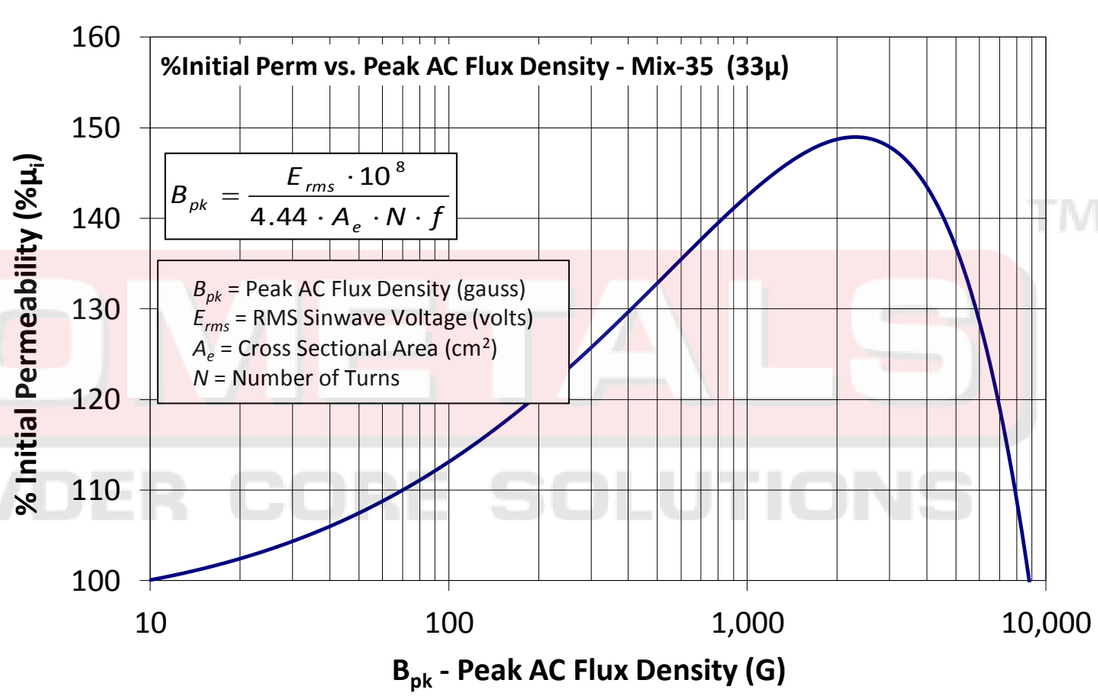
Revision 20190524 - Generated 2019-May-30

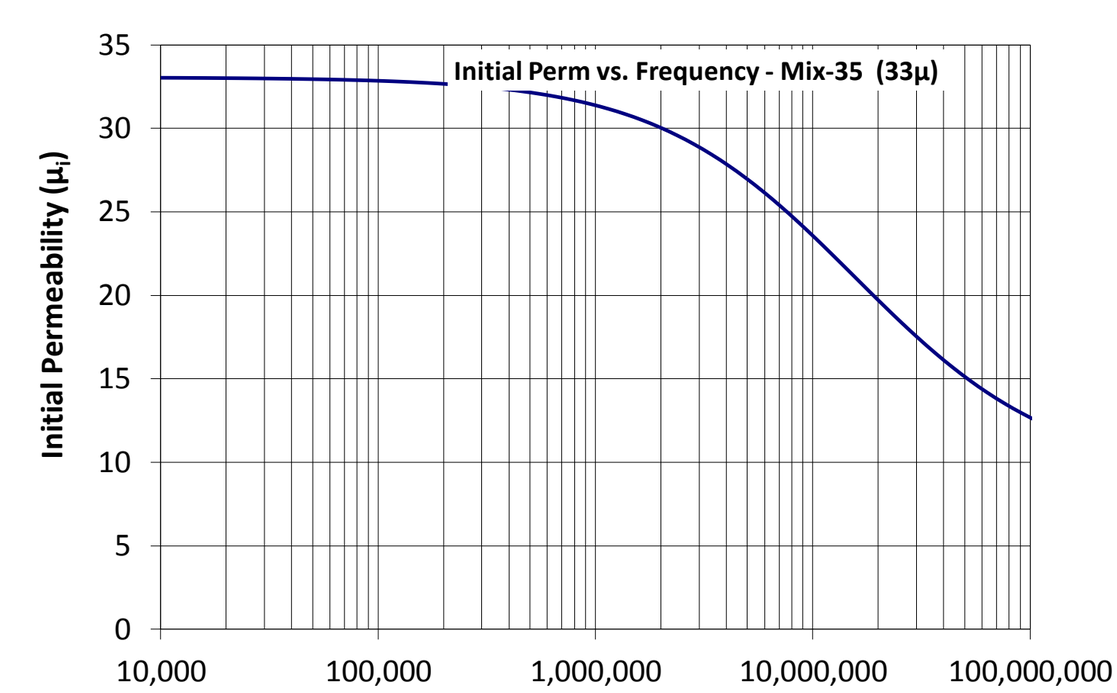


OD	(nom. - bare core)	33.02 mm	1.300 in
	(max. - after coating)	33.53 mm	1.320 in
ID	(nom. - bare core)	16.26 mm	0.640 in
	(min. - after coating)	15.75 mm	0.620 in
Ht	(nom. - bare core)	11.10 mm	0.437 in
	(max. - after coating)	11.73 mm	0.462 in
Mass	(approximate)	43 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.885 cm²	
	L_e - Eff. Mag. Path Length	7.72 cm	
	V_e - Eff. Core Volume	6.84 cm³	
	WA - Min. Eff. Window Area	1.95 cm²	
	sa - Surface Area	38.3 cm²	
	mlt - mean length per turn	4.91 cm	
Inductance	μ_i(reference)	33	
	A_L value (nominal)	46.5 nH/N²	
	Test Winding	N=100, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.39 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=3.70E+08, b=2.20E+07, c=2.20E+06, d=1.10E-13*		
	Bpk	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	119 mW/cm³	
	Core Loss (maximum)	137 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=6.22E-06, c=1.38, d=0.00*		
	H_{DC}	100 Oe	
	Percent Initial Perm(nom.)	73.3%	
	Percent Initial Perm(min.)	68.0%	
Coating/Pkg	Coating Type:	Yellow/Gray Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	500 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	11	14	18	23	29	37	47	59	74	92	116
		Rdc(Ω)	1.1 m	2.2 m	4.6 m	9.3 m	18.7 m	38.0 m	76.8 m	153.4 m	305.9 m	604.9 m	1.2
	Full Winding	Turns	10	16	24	38	59	91	140	217	336	520	804
		Rdc(Ω)	1.0 m	2.6 m	6.1 m	15.4 m	38.1 m	93.5 m	228.8 m	564.1 m	1.4	3.4	8.4

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