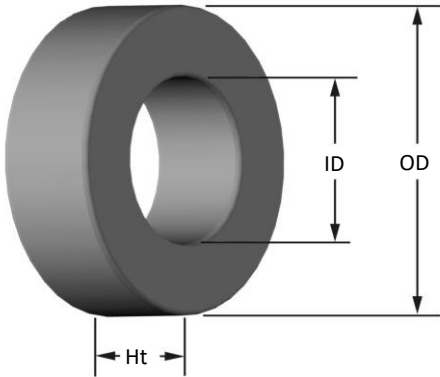




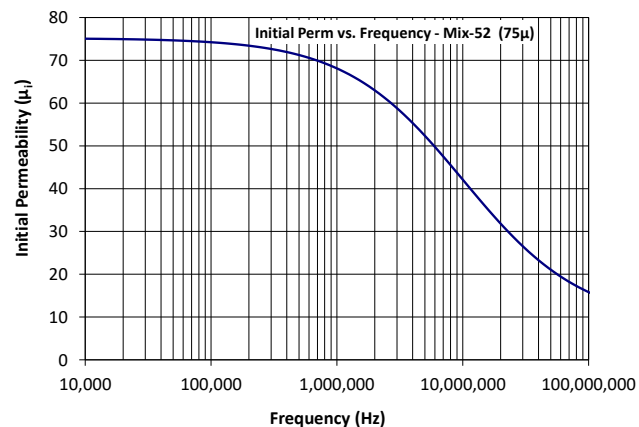
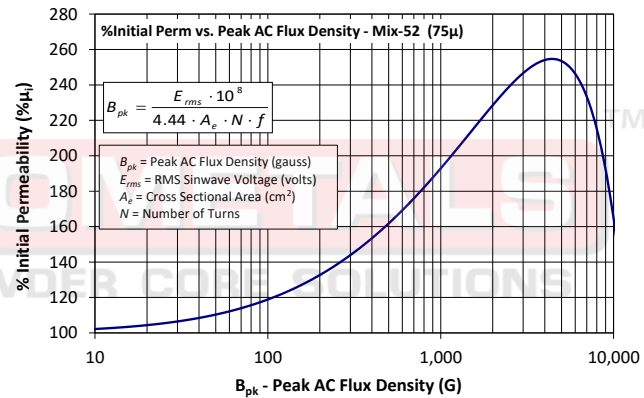
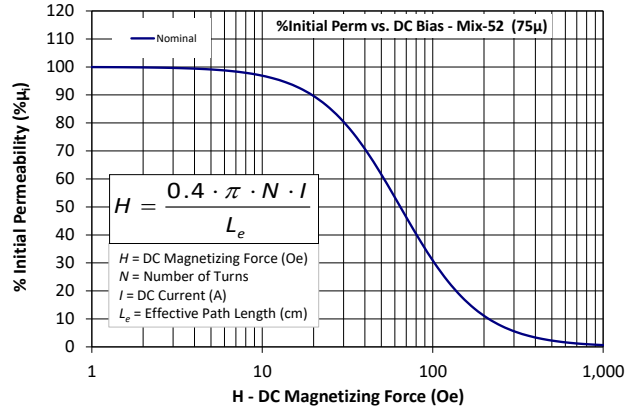
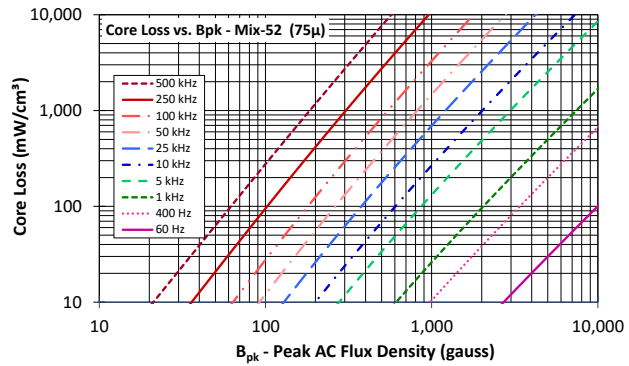
Part Number:

T20-52E

Revision 20200518 - Generated 2020-May-18



OD	(nom. - bare core)	5.08 mm	0.200 in			
	(max. - after coating)	5.28 mm	0.208 in			
ID	(nom. - bare core)	2.24 mm	0.088 in			
	(min. - after coating)	2.03 mm	0.080 in			
Ht	(nom. - bare core)	5.33 mm	0.210 in			
	(max. - after coating)	5.54 mm	0.218 in			
Mass	(approximate)	0.55 grams				
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0690 cm ²				
	L _e - Eff. Mag. Path Length	1.15 cm				
	V _e - Eff. Core Volume	0.0780 cm ³				
	W _A - Min. Eff. Window Area	0.0324 cm ²				
	s _a - Surface Area	1.59 cm ²				
	mlt - mean length per turn	1.53 cm				
Inductance	μ(reference)	75				
	A _L value (nominal)	52.4 nH/N ²				
	Test Winding	N=50, #36 AWG				
	Frequency	10 kHz				
	Voltage on Agilent 4284A	0.015 V				
	A _L tolerance	±10%				
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$					
	where <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and: <i>a</i> =1.00E+09, <i>b</i> =1.10E+08, <i>c</i> =2.10E+06, <i>d</i> =6.90E-14					
	B _{pk}	140 G				
	frequency	100 kHz				
	Core Loss (nominal)	58 mW/cm ³				
	Core Loss (maximum)	67 mW/cm ³				
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$					
	where H expressed in oersteds, and: <i>a</i> =1.00E-02, <i>b</i> =4.66E-06, <i>c</i> =1.84, <i>d</i> =0.00					
	H _{DC}	50 Oe				
	Percent Initial Perm.(nom.)	61.6%				
	Percent Initial Perm.(min.)	53.4%				
Coating/Pkg	Coating Type:	Parylene C over Green/Blue				
	Voltage Breakdown (min.)	500 Vrms, 60Hz				
	Limit	3 mA, 5 s				
	Package Quantity	30,000 Pcs/Box				
Winding Table	Wire Size	AWG	26	28	30	
		mm	0.400	0.315	0.250	
	Single Layer	Turns	9	12	16	
		Rdc(Ω)	18.5 m	39.2 m	83.1 m	
	Full Winding	Turns	9	13	21	
		Rdc(Ω)	18.5 m	42.5 m	109.1 m	



Special Spec: No color code

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