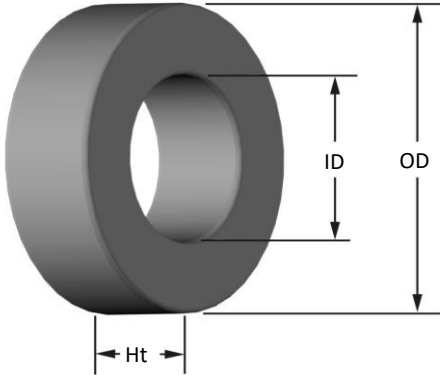




Part Number: **T22-52**
Revision 20190318 - Generated 2019-Mar-18



OD	(nom. - bare core)	5.66 mm	0.223 in
	(max. - after coating)	6.05 mm	0.238 in
ID	(nom. - bare core)	2.46 mm	0.097 in
	(min. - after coating)	2.08 mm	0.082 in
Ht	(nom. - bare core)	3.63 mm	0.143 in
	(max. - after coating)	4.14 mm	0.163 in
Mass	(approximate)	0.47 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.0520 cm ²	
	L_e - Eff. Mag. Path Length	1.28 cm	
	V_e - Eff. Core Volume	0.0670 cm ³	
	W_A - Min. Eff. Window Area	0.0341 cm ²	
	s_a - Surface Area	1.60 cm ²	
	mlt - mean length per turn	1.33 cm	
Inductance	μ_i (reference)	75	
	A_L value (nominal)	38.5 nH/N ²	
	Test Winding	N=50, #36 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.012 V	
	A_L tolerance	±10%	
Core Loss	Core Loss(mW/cm ³)= $\frac{f}{Bpk^3 + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.00E+09$, $b=1.10E+08$, $c=2.10E+06$, $d=6.90E-14$		
	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: $a=1.00E-02$, $b=4.66E-06$, $c=1.84$, $d=0.00$		
	H_{DC}	50 Oe	
	Percent Initial Perm(nom.)	61.6%	
	Percent Initial Perm(min.)	53.4%	
Coating/Plg	Coating Type:	Green/Blue Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	40,000 Pcs/Box	

Winding Table	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	#N/A
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	#N/A
	Single Layer	Turns	10	13	17	21	27	35	44	55	69	87	#N/A
		Rdc(Ω)	17.8 m	36.8 m	76.4 m	150.2 m	307.1 m	633.1 m	1.3	2.5	5.0	10.1	#N/A
Full Winding	Turns	9	14	22	34	52	81	125	193	299	463	463	#N/A
	Rdc(Ω)	16.0 m	39.6 m	98.9 m	243.2 m	591.5 m	1.5	3.6	8.8	21.8	53.6	53.6	#N/A

