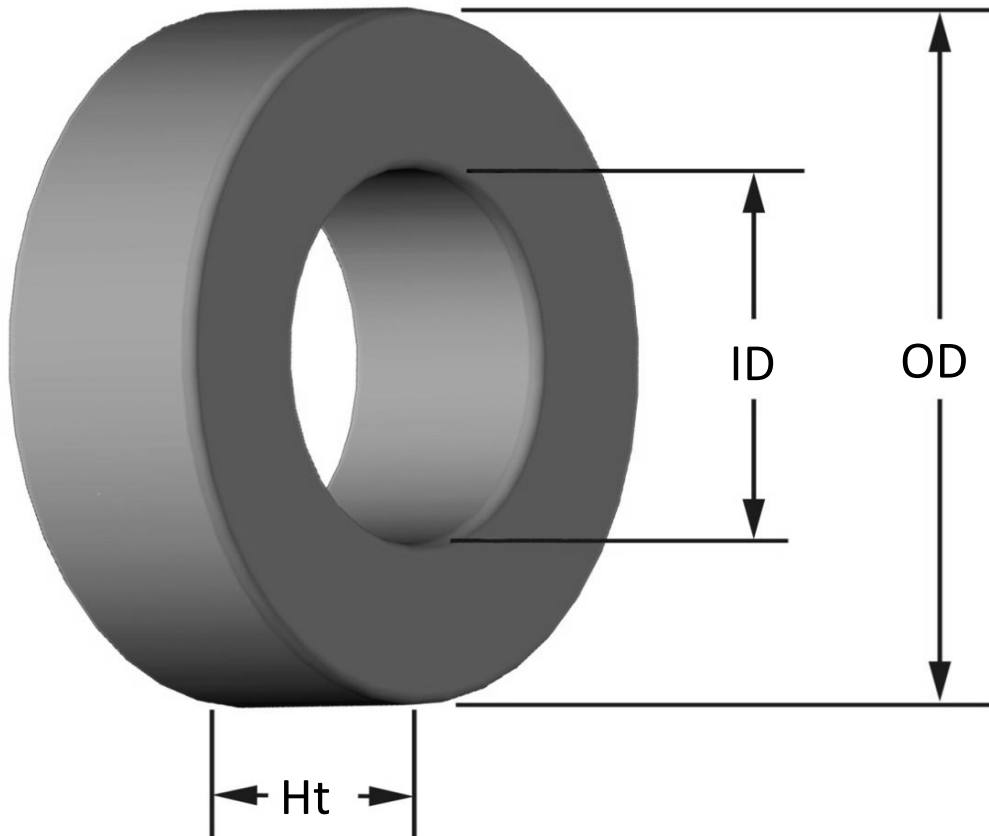




Part Number: **T37-52C**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	9.53 mm 9.91 mm	0.375 in 0.390 in										
ID	(nom. - bare core) (min. - after coating)	5.21 mm 4.83 mm	0.205 in 0.190 in										
Ht	(nom. - bare core) (max. - after coating)	2.44 mm 2.82 mm	0.096 in 0.111 in										
Mass	(approximate)	0.81 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0500 cm ²											
	L _e - Eff. Mag. Path Length	2.31 cm											
	V _e - Eff. Core Volume	0.116 cm ³											
	WA - Min. Eff. Window Area	0.183 cm ²											
	sa - Surface Area	3.14 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	18 nH/N ²											
	Test Winding	N=20, #24 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.004 V											
Core Loss	A _L tolerance	±10%											
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$											
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14											
	B _{pk}	140 G											
	frequency	100 kHz											
DC Saturation	Core Loss (nominal)	58 mW/cm ³											
	Core Loss (maximum)	67 mW/cm ³											
	%μ _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											
Coating/Pkg	Percent Initial Perm(nom.)	61.6%											
	Percent Initial Perm(min.)	53.4%											
	Coating Type:	Green/Blue Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
Winding Table	Limit	3 mA, 5 s											
	Package Quantity	20,000 Pcs/Box											
	Wire Size	AWG	20	22	24	26	28	30	32	34	36	38	40
		mm	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080
	Single Layer	Turns	12	16	21	26	34	42	53	67	84	105	132
Rdc(Ω)		5.2 m	11.1 m	23.2 m	45.7 m	95.0 m	186.7 m	374.7 m	753.3 m	1.5	3.0	6.0	
Full Winding	Turns	13	20	32	49	76	117	181	280	433	671	1,038	
	Rdc(Ω)	5.7 m	13.9 m	35.4 m	86.1 m	212.4 m	520.1 m	1.3	3.1	7.7	19.1	46.9	

