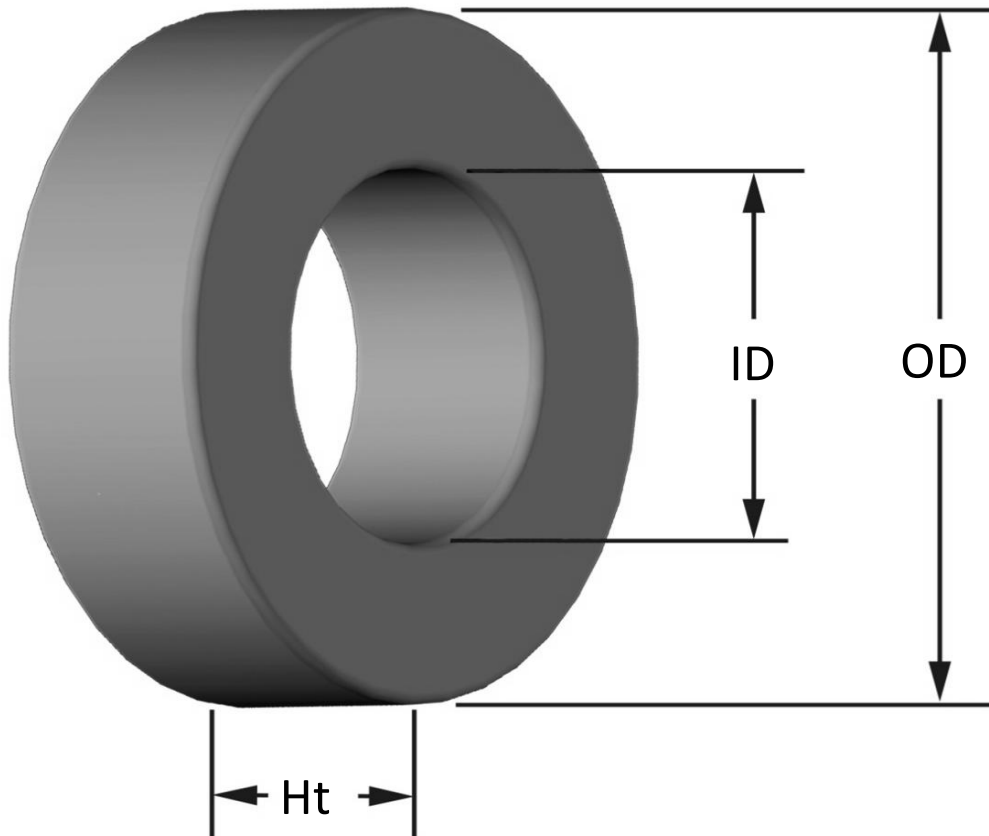




Part Number: **T650-52**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	165.10 mm 166.37 mm	6.500 in 6.550 in										
ID	(nom. - bare core) (min. - after coating)	88.90 mm 87.63 mm	3.500 in 3.450 in										
Ht	(nom. - bare core) (max. - after coating)	50.80 mm 52.07 mm	2.000 in 2.050 in										
Mass	(approximate)	5,140 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	18.4 cm ²											
	L _e - Eff. Mag. Path Length	39.9 cm											
	V _e - Eff. Core Volume	734 cm ³											
	WA - Min. Eff. Window Area	60.3 cm ²											
	sa - Surface Area	927 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	405 nH/N ²											
	Test Winding	N=100, #22 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	5.0 V											
Core Loss	A _L tolerance	±10%											
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$											
	where 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	2 Pcs/Box											
	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	

