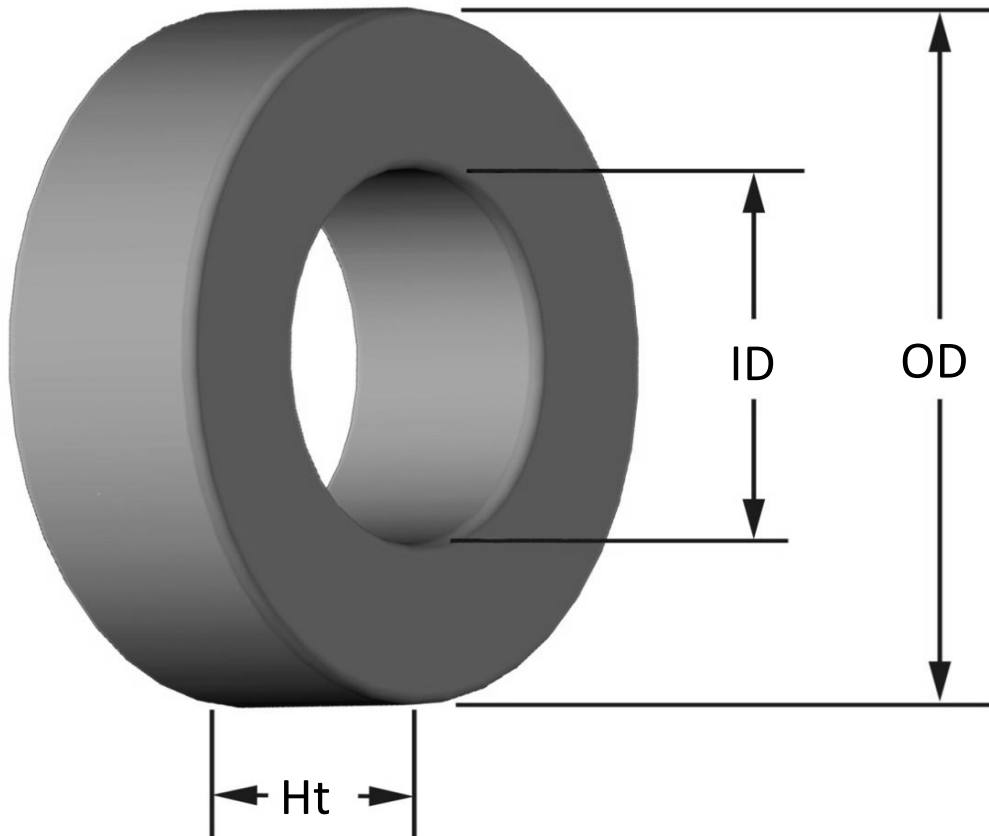




Part Number: **T68-52D**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	17.53 mm 18.03 mm	0.690 in 0.710 in										
ID	(nom. - bare core) (min. - after coating)	9.40 mm 8.89 mm	0.370 in 0.350 in										
Ht	(nom. - bare core) (max. - after coating)	9.53 mm 10.03 mm	0.375 in 0.395 in										
Mass	(approximate)	11 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.358 cm ²											
	L _e - Eff. Mag. Path Length	4.23 cm											
	V _e - Eff. Core Volume	1.52 cm ³											
	WA - Min. Eff. Window Area	0.621 cm ²											
	sa - Surface Area	13.5 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	80 nH/N ²											
	Test Winding	N=100, #30 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.16 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	1,600 Pcs/Box											
	Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Single Layer	Turns	12	15	20	25	32	40	51	64	80	101	126
Rdc(Ω)		3.3 m	6.6 m	14.1 m	28.0 m	57.0 m	113.3 m	229.7 m	458.5 m	911.4 m	1.8	3.6	
Full Winding	Turns	12	19	29	45	69	107	166	256	397	614	950	
	Rdc(Ω)	3.3 m	8.4 m	20.4 m	50.4 m	122.9 m	303.0 m	747.7 m	1.8	4.5	11.1	27.4	

