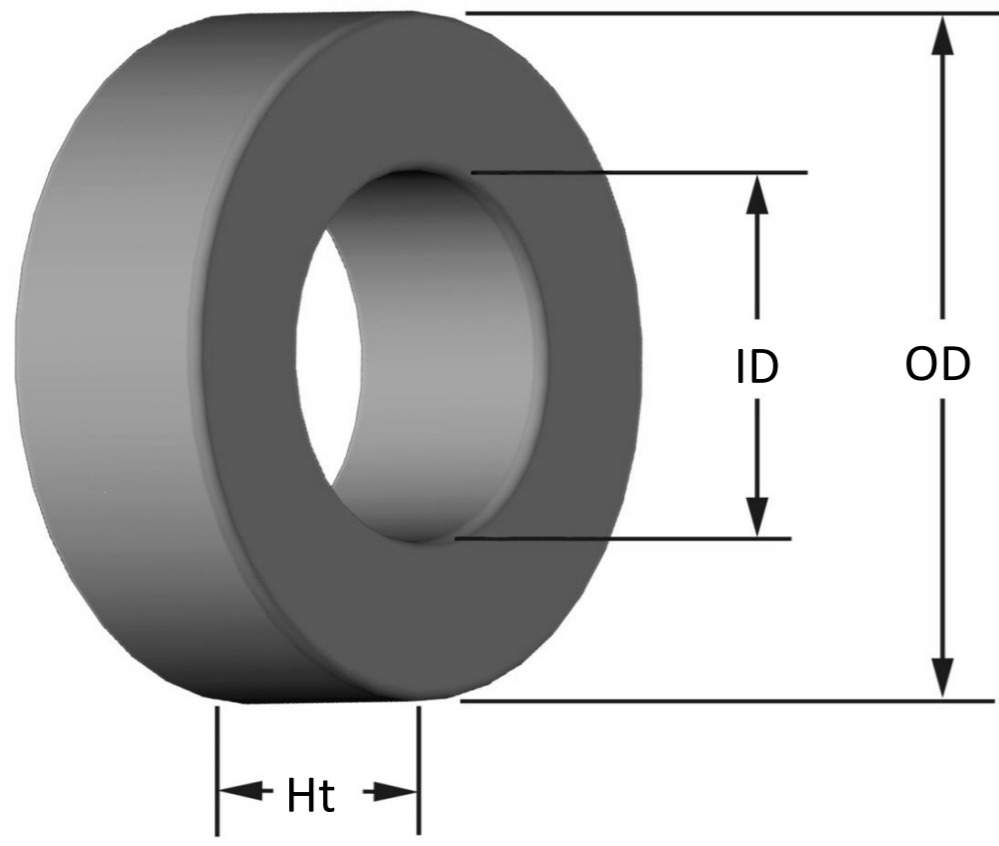




Part Number: **T68-6A**
Revision 20160713 - Generated 2016-Aug-15



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)	6.35 mm 6.86 mm	0.250 in 0.270 in										
Mass	(approximate)	5.2 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.242 cm ²											
	L _e - Eff. Mag. Path Length	4.23 cm											
	V _e - Eff. Core Volume	1.03 cm ³											
	WA - Min. Eff. Window Area	0.621 cm ²											
	sa - Surface Area	11.5 cm ²											
Inductance	μ _i (reference)	8.5											
	A _L value (nominal)	6.2 nH/N ²											
	Test Winding	N=100, #30 AWG											
	Frequency	1 MHz											
	Voltage on Agilent 4284A	1.0 V											
Core Loss & Q	A _L tolerance	±5%											
	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=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.90E-16											
	Q test winding	#N/A											
	Q frequency	#N/A											
DC Saturation	Q min on HP4342A	#N/A											
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.00E-02, b=4.87E-08, c=1.57, d=0.00											
	H _{DC}	200 Oe											
	Percent Initial Perm.(nom.)	98.1%											
Coating/Pkg	Percent Initial Perm.(min.)	97.4%											
	Coating Type:	Yellow/Clear Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
	Limit	0.1 mA, 5 s											
Winding Table	Package Quantity	3,000 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)	2.7 m	5.4 m	11.4 m	22.7 m	46.2 m	91.9 m	186.4 m	372.0 m	739.5 m	1.5	2.9
	Full Winding	Turns	12	19	29	45	69	107	166	256	397	614	950
		Rdc(Ω)	2.7 m	6.8 m	16.6 m	40.9 m	99.7 m	245.9 m	606.6 m	1.5	3.7	9.0	22.2

