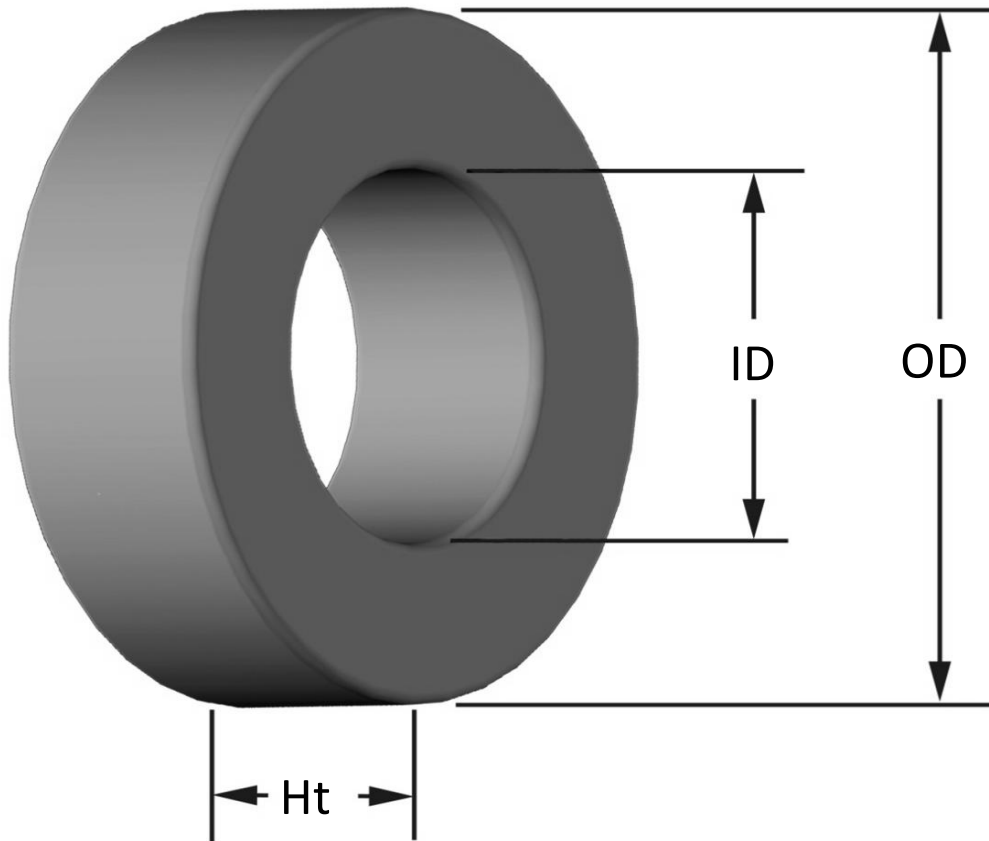




Part Number: **T14-52A**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	3.43 mm 3.68 mm	0.135 in 0.145 in										
ID	(nom. - bare core) (min. - after coating)	1.70 mm 1.45 mm	0.067 in 0.057 in										
Ht	(nom. - bare core) (max. - after coating)	1.52 mm 1.78 mm	0.060 in 0.070 in										
Mass	(approximate)	0.07 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0120 cm ²											
	L _e - Eff. Mag. Path Length	0.810 cm											
	V _e - Eff. Core Volume	0.00980											
	WA - Min. Eff. Window Area	0.0165 cm ²											
	sa - Surface Area	0.510 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	11.5 nH/N ²											
	Test Winding	N=30, #36 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.002 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:	Parylene C											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
Winding Table	Limit	3 mA, 5 s											
	Package Quantity	250,000 Pcs/Box											
	Wire Size	AWG	30	32	34	36	38	40	42	44	#N/A	#N/A	#N/A
		mm	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	#N/A	#N/A	#N/A
	Single Layer	Turns	11	14	18	23	30	38	47	60	#N/A	#N/A	#N/A
Rdc(Ω)		24.3 m	49.1 m	100.4 m	204.0 m	423.3 m	852.7 m	1.7	3.4	#N/A	#N/A	#N/A	
Full Winding	Turns	11	16	25	39	60	93	145	224	#N/A	#N/A	#N/A	
	Rdc(Ω)	24.3 m	56.1 m	139.5 m	346.0 m	846.6 m	2.1	5.2	12.7	#N/A	#N/A	#N/A	

