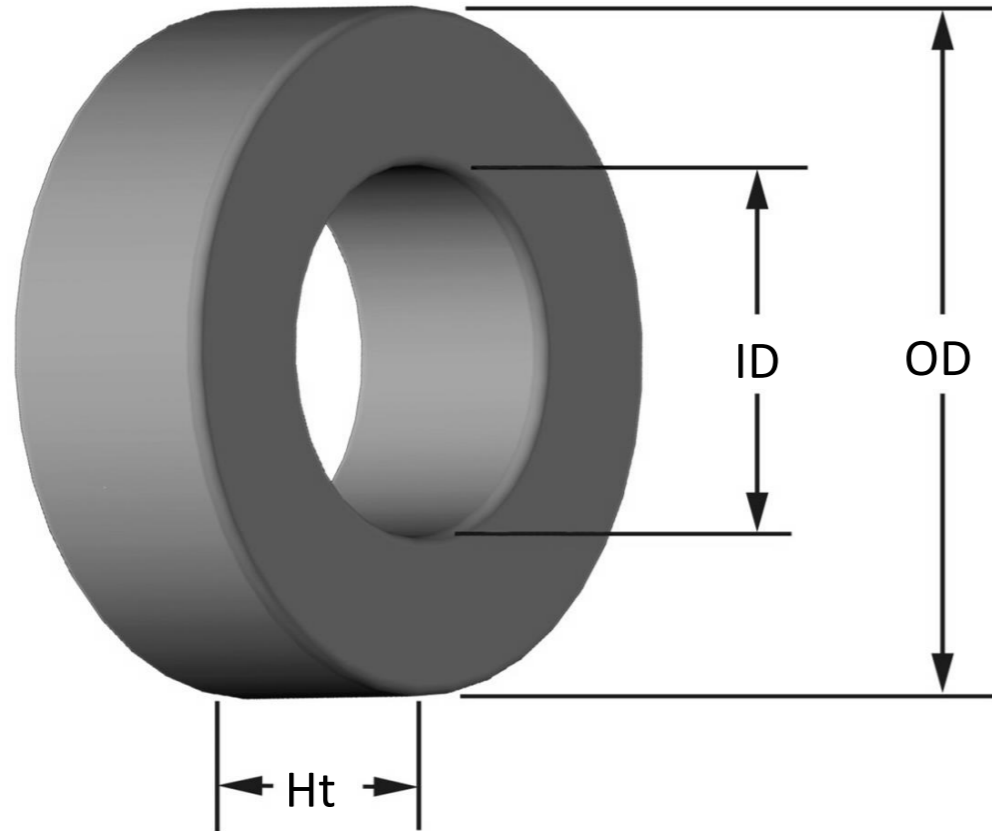




Part Number: **T16-18**
Revision 20160713 - Generated 2016-Aug-15



OD	(nom. - bare core) (max. - after coating)	4.06 mm 4.32 mm	0.160 in 0.170 in
ID	(nom. - bare core) (min. - after coating)	1.98 mm 1.73 mm	0.078 in 0.068 in
Ht	(nom. - bare core) (max. - after coating)	1.52 mm 1.78 mm	0.060 in 0.070 in
Mass	(approximate)	0.09 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0150 cm ²	
	L _e - Eff. Mag. Path Length	0.930 cm	
	V _e - Eff. Core Volume	0.0141 cm ³	
	WA - Min. Eff. Window Area	0.0234 cm ²	
	sa - Surface Area	0.658 cm ²	
	mlt - mean length per turn	0.701 cm	
Inductance	μ _i (reference)	55	
	A _L value (nominal)	9.5 nH/N ²	
	Test Winding	N=40, #36 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.003 V	
	A _L tolerance	±10%	
Core Loss	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=8.00E+08, b=1.70E+08, c=9.00E+05, d=3.10E-14		
	B _{pk}	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	46 mW/cm ³	
Core Loss (maximum)	53 mW/cm ³		
DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=4.72E-06, c=1.65, d=0.00		
	H _{DC}	100 Oe	
	Percent Initial Perm.(nom.)	51.4%	
Percent Initial Perm.(min.)	43.9%		
Coating/Pkg	Coating Type:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	0.1 mA, 5 s	
	Package Quantity	50,000 Pcs/Box	

Winding Table	Wire Size	AWG	28	30	32	34	36	38	40	42	44	#N/A	#N/A
		mm	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	#N/A	#N/A
	Single Layer	Turns	10	13	17	22	28	36	45	57	72	#N/A	#N/A
		Rdc(Ω)	14.9 m	30.9 m	64.2 m	132.1 m	267.3 m	546.6 m	1.1	2.2	4.4	#N/A	#N/A
Full Winding	Turns	10	15	23	36	56	86	133	206	319	#N/A	#N/A	
	Rdc(Ω)	14.9 m	35.6 m	86.8 m	216.1 m	534.6 m	1.3	3.2	7.9	19.5	#N/A	#N/A	

