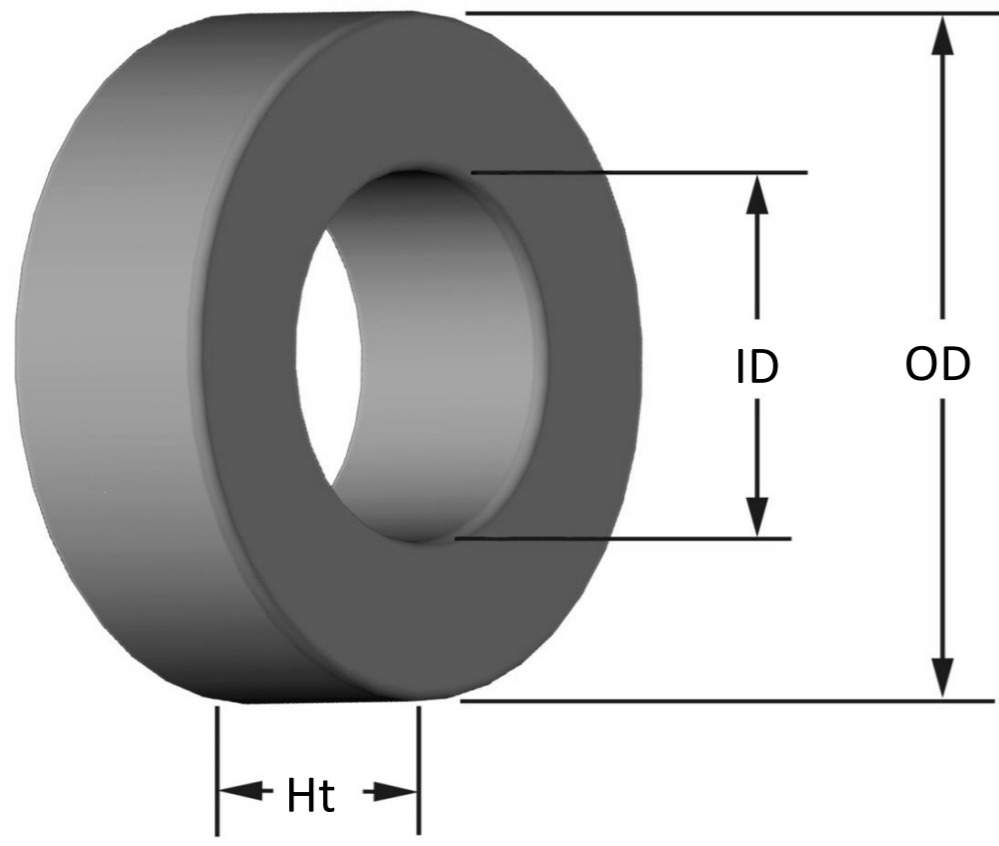




**Part Number:** **T44-3**  
Revision 20160713 - Generated 2016-Aug-15



<b>OD</b>	(nom. - bare core) (max. - after coating)	11.18 mm 11.68 mm	0.440 in 0.460 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	5.82 mm 5.31 mm	0.229 in 0.209 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	4.04 mm 4.55 mm	0.159 in 0.179 in
<b>Mass</b>	(approximate)	1.7 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.0990 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	2.68 cm	
	V <sub>e</sub> - Eff. Core Volume	0.266 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.221 cm <sup>2</sup>	
	sa - Surface Area	4.81 cm <sup>2</sup>	
	mlt - mean length per turn	1.81 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	35	
	A <sub>L</sub> value (nominal)	18 nH/N <sup>2</sup>	
	Test Winding	N=100, #34 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.044 V	
	A <sub>L</sub> tolerance	±10%	
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.90E+09, b=2.00E+08, c=9.00E+05, d=4.30E-15		
	B <sub>pk</sub>	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	31 mW/cm <sup>3</sup>	
Core Loss (maximum)	36 mW/cm <sup>3</sup>		
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=3.49E-06, c=1.43, d=0.00		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm (nom.)	60.1%	
Percent Initial Perm (min.)	53.7%		
<b>Coating/Pkg</b>	Coating Type:	Gray/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	0.1 mA, 5 s	
	Package Quantity	10,000 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	18	20	22	24	26	28	30	32	34	36	38
		mm	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100
	<b>Single Layer</b>	Turns	11	14	18	23	29	37	47	59	74	93	116
		Rdc(Ω)	4.2 m	8.4 m	17.3 m	35.1 m	70.3 m	142.7 m	288.3 m	575.7 m	1.1	2.3	4.6
<b>Full Winding</b>	Turns	10	16	25	38	59	91	141	219	339	524	812	
	Rdc(Ω)	3.8 m	9.6 m	24.0 m	58.0 m	143.1 m	351.0 m	865.0 m	2.1	5.3	12.9	31.9	

