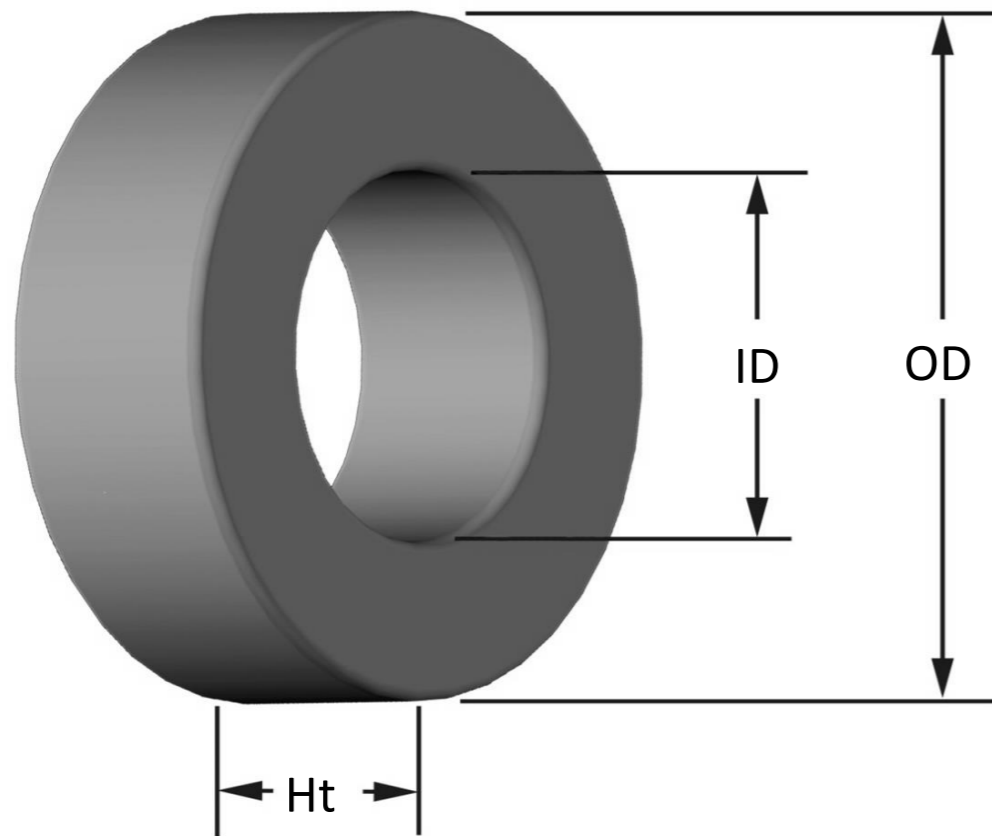




Part Number: **T30-10**
 Revision 20160713 - Generated 2016-Aug-15



OD	(nom. - bare core) (max. - after coating)	7.80 mm 8.18 mm	0.307 in 0.322 in
ID	(nom. - bare core) (min. - after coating)	3.84 mm 3.45 mm	0.151 in 0.136 in
Ht	(nom. - bare core) (max. - after coating)	3.25 mm 3.76 mm	0.128 in 0.148 in
Mass	(approximate)	0.54 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0600 cm ²	
	L _e - Eff. Mag. Path Length	1.84 cm	
	V _e - Eff. Core Volume	0.110 cm ³	
	WA - Min. Eff. Window Area	0.0937 cm ²	
	sa - Surface Area	2.49 cm ²	
	mlt - mean length per turn	1.40 cm	
Inductance	μ _i (reference)	6	
	A _L value (nominal)	2.5 nH/N ²	
	Test Winding	N=50, #32 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
	A _L tolerance	±5%	
Core Loss & Q	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=8.00E-16		
	Q test winding	N=10, #24 AWG	
	Q frequency	25 MHz	
DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=5.54E-09, c=1.69, d=0.00		
	H _{DC}	200 Oe	
	Percent Initial Perm.(nom.)	99.6%	
Coating/Pkg	Coating Type:	Black/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	0.1 mA, 5 s	
	Package Quantity	25,000 Pcs/Box	

Winding Table	Wire Size	AWG	22	24	26	28	30	32	34	36	38	40	42
		mm	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063
	Single Layer	Turns	11	14	18	23	30	37	47	59	75	94	117
		Rdc(Ω)	8.1 m	16.5 m	33.7 m	68.4 m	141.9 m	278.3 m	562.2 m	1.1	2.3	4.5	9.0
Full Winding	Turns	10	16	25	39	60	93	143	222	344	532	823	
	Rdc(Ω)	7.4 m	18.8 m	46.7 m	116.0 m	283.7 m	699.5 m	1.7	4.2	10.4	25.6	63.0	

