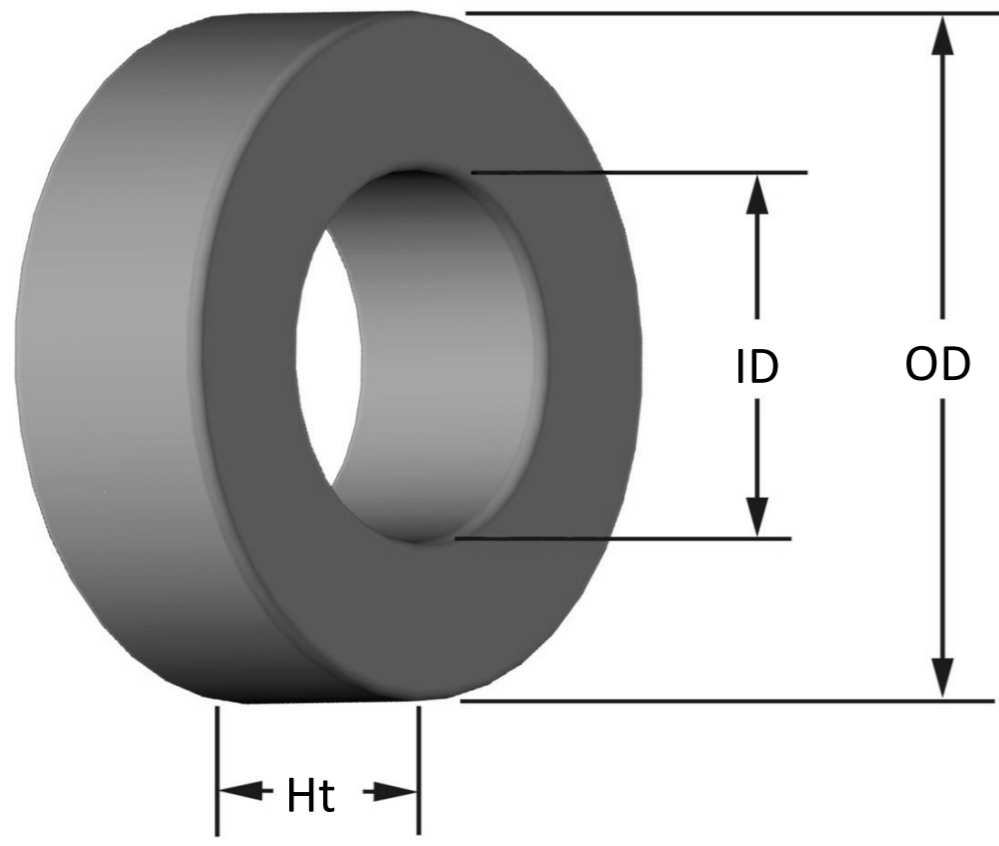




Part Number: **T12-6B**
Revision 20160713 - Generated 2016-Aug-15



OD	(nom. - bare core) (max. - after coating)	3.18 mm 3.30 mm	0.125 in 0.130 in
ID	(nom. - bare core) (min. - after coating)	1.57 mm 1.45 mm	0.062 in 0.057 in
Ht	(nom. - bare core) (max. - after coating)	1.07 mm 1.19 mm	0.042 in 0.047 in
Mass	(approximate)	0.03 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.00800 cm ²	
	L _e - Eff. Mag. Path Length	0.750 cm	
	V _e - Eff. Core Volume	0.00610	
	WA - Min. Eff. Window Area	0.0165 cm ²	
	sa - Surface Area	0.371 cm ²	
	mlt - mean length per turn	0.497 cm	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	1.35 nH/N ²	
	Test Winding	N=25, #36 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.089 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=8.90E-16	
	Q test winding	N=25, #36 AWG	
	Q frequency	20 MHz	
	Q min on HP4342A	92	
DC Saturation	%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%	
	Percent Initial Perm.(min.)	97.4%	
Coating/Pkg	Coating Type:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	0.1 mA, 5 s	
	Package Quantity	250,000 Pcs/Box	

Winding Table	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)	18.5 m	37.4 m	76.5 m	155.5 m	322.6 m	649.9 m	1.3	2.6	#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)	18.5 m	42.8 m	106.3 m	263.7 m	645.2 m	1.6	3.9	9.7	#N/A	#N/A	#N/A	

