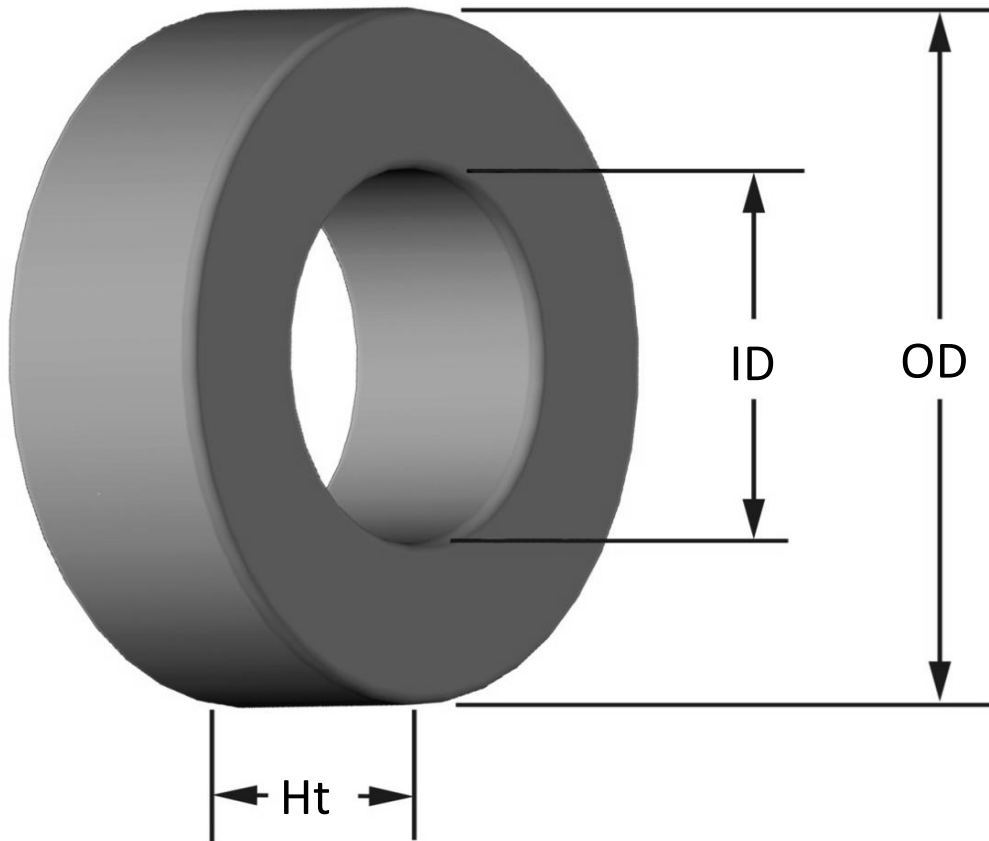




Part Number: **T12-10B**

Revision 20190524 - Generated 2019-May-30



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	
Inductance	μ _i (reference)	6	
	A _L value (nominal)	1 nH/N ²	
	Test Winding	N=25, #36 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.089 V	
Core Loss & Q	A _L tolerance	±5%	
	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=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.00E-16	
	Q test winding	N=25, #36 AWG	
	Q frequency	35 MHz	
DC Saturation	Q min on HP4342A	80	
	%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	Percent Initial Perm(min.)	99.4%	
	Coating Type:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 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	

