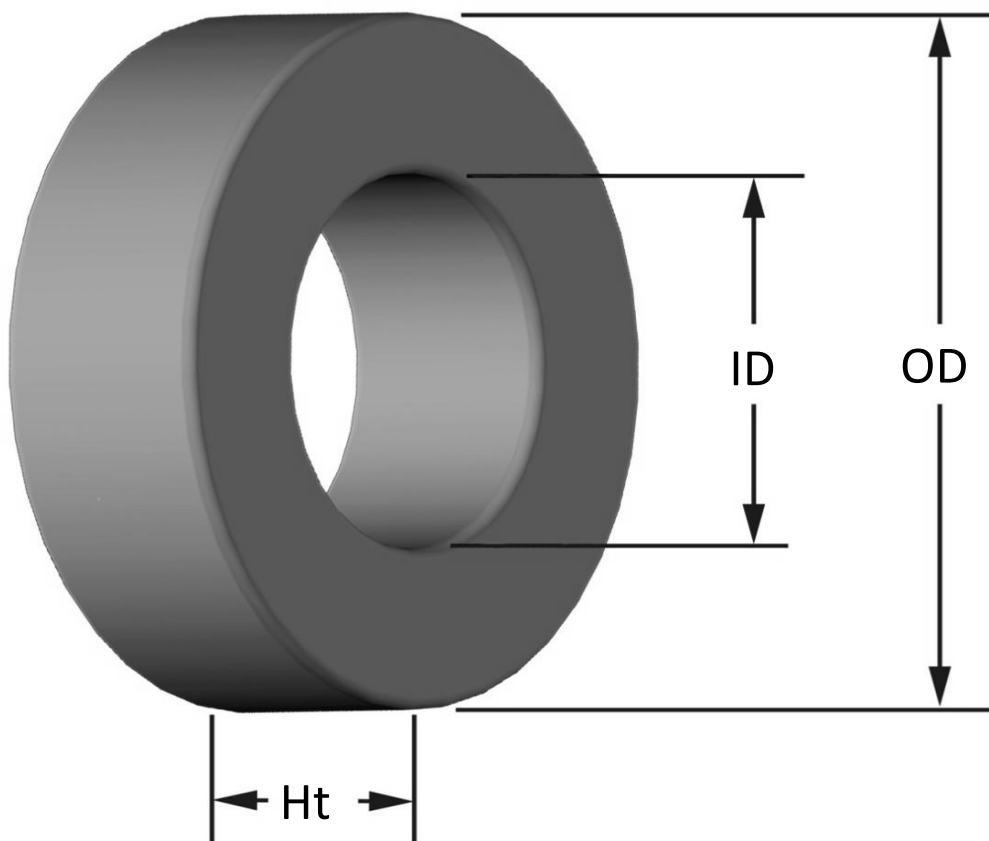




Part Number: **T12-1**

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)	1.27 mm 1.40 mm	0.050 in 0.055 in										
Mass	(approximate)	0.05 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0100 cm ²											
	L _e - Eff. Mag. Path Length	0.750 cm											
	V _e - Eff. Core Volume	0.00770											
	WA - Min. Eff. Window Area	0.0165 cm ²											
	sa - Surface Area	0.395 cm ²											
Inductance	μ _i (reference)	20											
	A _L value (nominal)	4.8 nH/N ²											
	Test Winding	N=25, #36 AWG											
	Frequency	1 MHz											
	Voltage on Agilent 4284A	0.11 V											
Core Loss	A _L tolerance	±10%											
	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=1.90E+09, b=2.00E+08, c=9.00E+05, d=4.30E-15											
	B _{pk}	140 G											
	frequency	100 kHz											
DC Saturation	Core Loss (nominal)	31 mW/cm ³											
	Core Loss (maximum)	36 mW/cm ³											
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.00E-02, b=1.14E-06, c=1.43, d=0.00											
	H _{DC}	200 Oe											
Coating/Pkg	Percent Initial Perm(nom.)	82.2%											
	Percent Initial Perm(min.)	78.0%											
	Coating Type:	Parylene C											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
Winding Table	Limit	3 mA, 5 s											
	Package Quantity	250,000 Pcs/Box											
	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)		20.0 m	40.5 m	82.8 m	168.3 m	349.0 m	703.1 m	1.4	2.8	#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)	20.0 m	46.3 m	115.0 m	285.3 m	698.0 m	1.7	4.3	10.5	#N/A	#N/A	#N/A	

