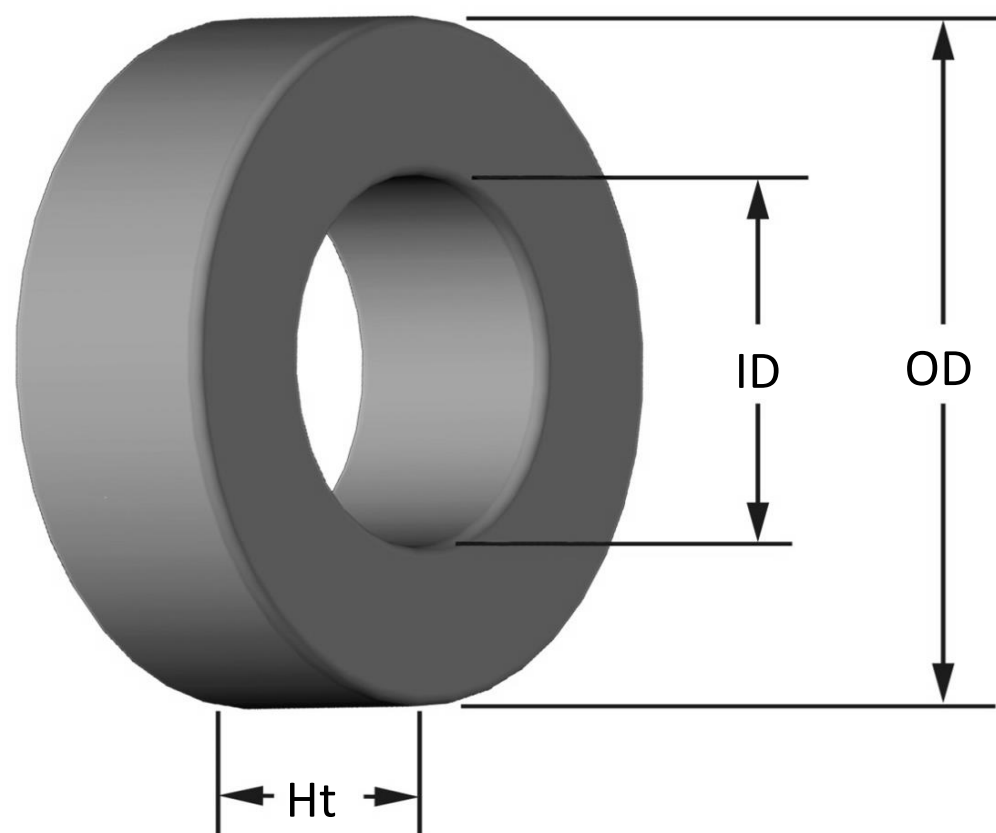




Part Number:

T184-38

Revision 20160713 - Generated 2016-Aug-15



OD	(nom. - bare core)	46.74 mm	1.840 in			
	(max. - after coating)	47.37 mm	1.865 in			
ID	(nom. - bare core)	24.13 mm	0.950 in			
	(min. - after coating)	23.50 mm	0.925 in			
Ht	(nom. - bare core)	18.03 mm	0.710 in			
	(max. - after coating)	18.80 mm	0.740 in			
Mass	(approximate)	150 grams				
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.88 cm ²				
	L _e - Eff. Mag. Path Length	11.2 cm				
	V _e - Eff. Core Volume	21.0 cm ³				
	WA - Min. Eff. Window Area	4.34 cm ²				
	sa - Surface Area	80.9 cm ²				
	mlt - mean length per turn	7.32 cm				
Inductance	μ _i (reference)	85				
	A _L value (nominal)	180 nH/N ²				
	Test Winding	N=100, #24 AWG				
	Frequency	10 kHz				
	Voltage on Agilent 4284A	0.83 V				
	A _L tolerance	±10%				
Core Loss	$\text{Core Loss(mW/cm}^3\text{)}=\frac{f}{\frac{a}{Bpk^3}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}}+d\cdot Bpk^2\cdot f^2$					
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.20E+09$, $b=1.30E+08$, $c=1.90E+06$, $d=3.20E-13$					
	Bpk	140 G				
	frequency	100 kHz				
	Core Loss (nominal)	103 mW/cm ³				
	Core Loss (maximum)	118 mW/cm ³				
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$					
	where H expressed in oersteds, and: $a=1.00E-02$, $b=9.78E-06$, $c=1.76$, $d=0.00$					
	H _{DC}	50 Oe				
	Percent Initial Perm(nom.)	51.4%				
	Percent Initial Perm(min.)	43.5%				
Coating/Pkg	Coating Type:	Gray/Black Epoxy Paint				
	Voltage Breakdown (min.)	500 Vrms, 60Hz				
	Limit	0.1 mA, 5 s				
	Package Quantity	140 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	17	22	28	
		Rdc(Ω)	2.6 m	5.3 m	10.7 m	
	Full Winding	Turns	23	35	54	
		Rdc(Ω)	3.5 m	8.4 m	20.6 m	

