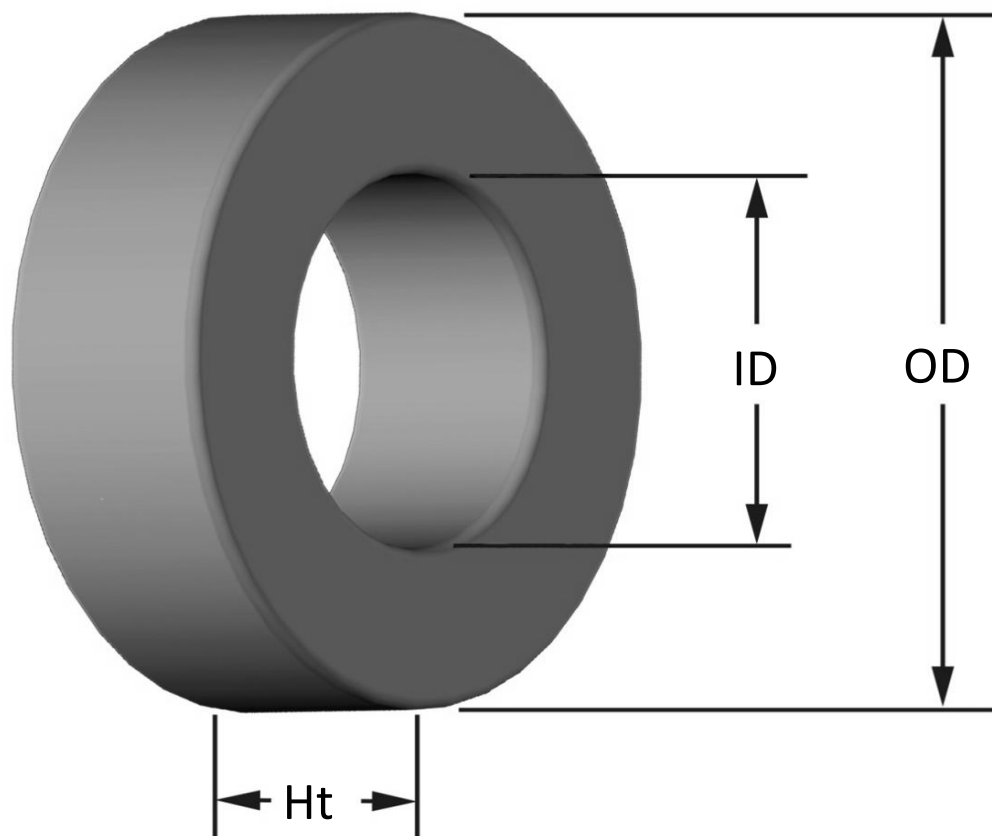




Part Number:

T157-18

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core)	39.88 mm	1.570 in
	(max. - after coating)	40.51 mm	1.595 in
ID	(nom. - bare core)	24.13 mm	0.950 in
	(min. - after coating)	23.50 mm	0.925 in
Ht	(nom. - bare core)	14.48 mm	0.570 in
	(max. - after coating)	15.24 mm	0.600 in
Mass	(approximate)	71 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.06 cm ²	
	L _e - Eff. Mag. Path Length	10.1 cm	
	V _e - Eff. Core Volume	10.7 cm ³	
	WA - Min. Eff. Window Area	4.34 cm ²	
	sa - Surface Area	59.7 cm ²	
	mlt - mean length per turn	5.92 cm	
Inductance	μ _i (reference)	55	
	A _L value (nominal)	73 nH/N ²	
	Test Winding	N=100, #24 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.47 V	
	A _L tolerance	±10%	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=8.00E+08$, $b=1.70E+08$, $c=9.00E+05$, $d=3.10E-14$		
	Bpk	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	46 mW/cm ³	
	Core Loss (maximum)	53 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.00E-02$, $b=4.72E-06$, $c=1.65$, $d=0.00$		
	H _{DC}	100 Oe	
	Percent Initial Perm(nom.)	51.4%	
	Percent Initial Perm(min.)	43.9%	
Coating/Pkg	Coating Type:	Green/Red Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	240 Pcs/Box	

Winding Table	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	17	22	28	36	45	57	71	89	111	139	174
		Rdc(Ω)	2.1 m	4.3 m	8.6 m	17.6 m	35.1 m	70.6 m	140.0 m	279.0 m	553.4 m	1.1	2.2
	Full Winding	Turns	23	35	54	84	130	202	312	483	747	1,157	1,790
		Rdc(Ω)	2.8 m	6.8 m	16.6 m	41.2 m	101.3 m	250.4 m	615.0 m	1.5	3.7	9.2	22.6

