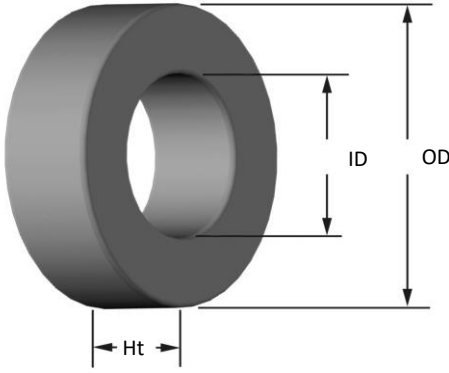




**Part Number:** **T157-5**  
Revision 2024-Jul-8 - Generated 2024-Jul-8



<b>OD</b>	(nom. - bare core)	39.88 mm	1.570 in										
	(max. - including coating, if any)	40.51 mm	1.595 in										
<b>ID</b>	(nom. - bare core)	24.13 mm	0.950 in										
	(min. - including coating, if any)	23.50 mm	0.925 in										
<b>HT</b>	(nom. - bare core)	14.48 mm	0.570 in										
	(max. - including coating, if any)	15.24 mm	0.600 in										
<b>Mass</b>	(approximate)	54 grams											
<b>Magnetic Dimensions</b>	Ae - Eff. Mag. Cross Section	1.06 cm <sup>2</sup>											
	Le - Eff. Mag. Path Length	10.1 cm											
	Ve - Eff. Core Volume	10.7 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	4.34 cm <sup>2</sup>											
	sa - Surface Area	59.7 cm <sup>2</sup>											
	mlt - mean length per turn	5.92 cm											
	$\mu_i$ (reference)	5											
<b>Inductance</b>	AL value (nominal)	6.6 nH/N <sup>2</sup>											
	Test Winding	N=100, #24 AWG											
	Test Frequency	1 MHz											
	Voltage on Agilent 4284A	1.0 V											
	AL tolerance	±5%											
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$												
	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=4.00E+09$ , $b=3.00E+08$ , $c=2.70E+06$ , $d=8.00E-15$												
	$B_{pk}$	140 G											
	frequency	100 kHz											
	Core Loss (nominal)	19 mW/cm <sup>3</sup>											
Core Loss (maximum)	22 mW/cm <sup>3</sup>												
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: $a=1.00E-02$ , $b=1.34E-08$ , $c=1.55$ , $d=0.00$												
	Hdc	200 Oe											
	Percent Initial Perm.(nom.)	99.5%											
Percent Initial Perm.(min.)	99.4%												
<b>Coating/Pkg</b>	Coating Type:	Green/Clear Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
	Limit	3 mA, 5 s											
	Package Quantity	240 Pcs/Box											
<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	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	35.0 m	70.6 m	139.8 m	278.8 m	553.0 m	1.1	2.2
	<b>Full Winding</b>	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	41.1 m	101.2 m	250.2 m	614.5 m	1.5	3.7	9.2	22.6	

