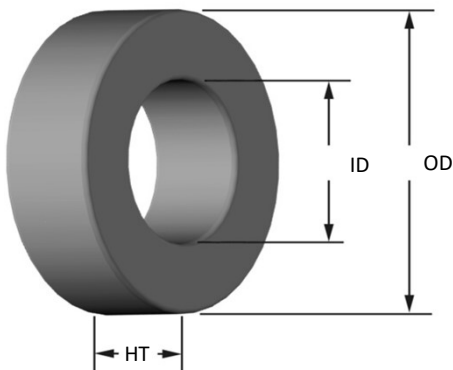




Part Number:

T157-6

Revision 2023-Dec-14 - Generated 2025-Jun-11



OD	(nom. - bare core)	39.88 mm	1.570 in
	(max. - including coating, if any)	40.51 mm	1.595 in
ID	(nom. - bare core)	24.13 mm	0.950 in
	(min. - including coating, if any)	23.50 mm	0.925 in
HT	(nom. - bare core)	14.48 mm	0.570 in
	(max. - including coating, if any)	15.24 mm	0.600 in
Mass	(approximate)	51 grams	
Magnetic Dimensions	Ae - Eff. Mag. Cross Section	1.06 cm ²	
	Le - Eff. Mag. Path Length	10.1 cm	
	Ve - Eff. Core Volume	10.7 cm ³	
	WA - Min. Eff. Window Area	4.34 cm ²	
	sa - Surface Area	59.7 cm ²	
Inductance	mlt - mean length per turn	5.92 cm	
	μi(reference)	8.5	
	AL value (nominal)	11.5 nH/N ²	
	Test Winding	N=100, #24 AWG	
	Test Frequency	10 kHz	
Core Loss & Q	Voltage on Agilent 4284A	0.47 V	
	AL tolerance	±5%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=4.00E+09$, $b=3.00E+08$, $c=2.70E+06$, $d=8.90E-16$		
	Q test winding	N=20, #22 AWG	
DC Saturation	Q frequency	7 MHz	
	Q min on HP4342A	275	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: $a=1.00E-02$, $b=4.87E-08$, $c=1.57$, $d=0.00$		
	Hdc	200 Oe	
Coating/Pkg	Percent Initial Perm(nom.)	98.1%	
	Percent Initial Perm(min.)	97.4%	
	Coating Type:	Yellow/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
Winding Table	Limit	3 mA, 5 s	
	Package Quantity	240 Pcs/Box	
	Wire Size	AWG	8
		mm	3.150
		Turns	17
Single Layer		Rdc(Ω)	2.1 m
		Turns	23
		Rdc(Ω)	2.8 m
		Turns	35
		Rdc(Ω)	6.8 m
Full Winding		Turns	54
		Rdc(Ω)	16.6 m
		Turns	84
		Rdc(Ω)	41.2 m
		Turns	130
Winding Table		Rdc(Ω)	101.3 m
		Turns	202
		Rdc(Ω)	250.4 m
		Turns	312
		Rdc(Ω)	615.0 m
Winding Table		Turns	483
		Rdc(Ω)	1.5
		Turns	747
		Rdc(Ω)	3.7
		Turns	1,157
Winding Table		Rdc(Ω)	9.2
		Turns	1,790
		Rdc(Ω)	22.6
		Turns	2,815
		Rdc(Ω)	111.1

