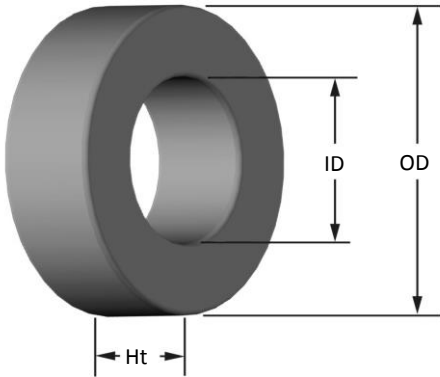




Part Number:

T50-6

Revision 20190404 - Generated 2019-Apr-04



OD	(nom. - bare core)	12.70 mm	0.500 in				
	(max. - after coating)	13.21 mm	0.520 in				
ID	(nom. - bare core)	7.70 mm	0.303 in				
	(min. - after coating)	7.19 mm	0.283 in				
Ht	(nom. - bare core)	4.83 mm	0.190 in				
	(max. - after coating)	5.33 mm	0.210 in				
Mass	(approximate)	1.8 grams					
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.112 cm ²					
	L _e - Eff. Mag. Path Length	3.19 cm					
	V _e - Eff. Core Volume	0.358 cm ³					
	WA - Min. Eff. Window Area	0.406 cm ²					
	sa - Surface Area	6.44 cm ²					
	mlt - mean length per turn	2.03 cm					
Inductance	μ(reference)	8.5					
	A _L value (nominal)	4 nH/N ²					
	Test Winding	N=50, #27 AWG					
	Frequency	1 MHz					
	Voltage on Agilent 4284A	1.0 V					
	A _L tolerance	±5%					
Core Loss & Q	$\text{Core Loss(mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$						
	where <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and: <i>a</i> =4.00E+09, <i>b</i> =3.00E+08, <i>c</i> =2.70E+06, <i>d</i> =8.90E-16						
	Q test winding	N=25, #22 AWG					
	Q frequency	10 MHz					
	Q min on HP4342A	237					
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$						
	where H expressed in oersteds, and: <i>a</i> =1.00E-02, <i>b</i> =4.87E-08, <i>c</i> =1.57, <i>d</i> =0.00						
	H _{DC}	200 Oe					
	Percent Initial Perm.(nom.)	98.1%					
	Percent Initial Perm.(min.)	97.4%					
Coating/Pkg	Coating Type:	Yellow/Clear Epoxy Paint					
	Voltage Breakdown (min.)	500 Vrms, 60Hz					
	Limit	3 mA, 5 s					
	Package Quantity	6,000 Pcs/Box					
Winding Table	Wire Size	AWG	16	18	20		
		mm	1.250	1.000	0.800		
	Single Layer	Turns	12	15	20		
		Rdc(Ω)	3.2 m	6.4 m	13.5 m		
	Full Winding	Turns	12	19	29		
		Rdc(Ω)	3.2 m	8.1 m	19.6 m		

