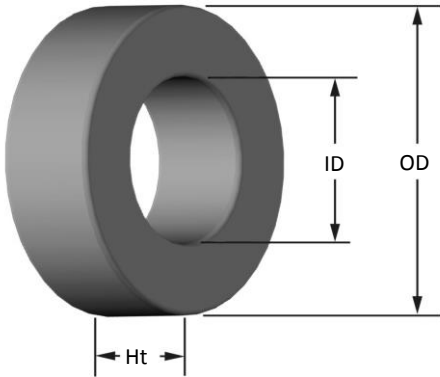




Part Number:

**T37-6**

Revision 20190404 - Generated 2019-Apr-04



<b>OD</b>	(nom. - bare core)	9.53 mm	0.375 in
	(max. - after coating)	9.91 mm	0.390 in
<b>ID</b>	(nom. - bare core)	5.21 mm	0.205 in
	(min. - after coating)	4.83 mm	0.190 in
<b>Ht</b>	(nom. - bare core)	3.25 mm	0.128 in
	(max. - after coating)	3.76 mm	0.148 in
<b>Mass</b>	(approximate)	0.74 grams	
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section	0.0640 cm <sup>2</sup>	
	$L_e$ - Eff. Mag. Path Length	2.31 cm	
	$V_e$ - Eff. Core Volume	0.147 cm <sup>3</sup>	
	$W_A$ - Min. Eff. Window Area	0.183 cm <sup>2</sup>	
	$s_a$ - Surface Area	3.47 cm <sup>2</sup>	
<b>Inductance</b>	mlt - mean length per turn	1.50 cm	
	$\mu_i$ (reference)	8.5	
	$A_L$ value (nominal)	3 nH/N <sup>2</sup>	
	Test Winding	N=25, #26 AWG	
	Frequency	1 MHz	
<b>Core Loss &amp; Q</b>	Voltage on Agilent 4284A	0.71 V	
	$A_L$ tolerance	±5%	
	Core Loss(mW/cm <sup>3</sup> )=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and:	$a=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.90E-16$	
	Q test winding	N=25, #26 AWG	
<b>DC Saturation</b>	Q frequency	11 MHz	
	Q min on HP4342A	190	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and:	$a=1.00E-02, b=4.87E-08, c=1.57, d=0.00$	
	$H_{DC}$	200 Oe	
<b>Coating/Pkg</b>	Percent Initial Perm(nom.)	98.1%	
	Percent Initial Perm(min.)	97.4%	
	Coating Type:	Yellow/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
<b>Winding Table</b>	Package Quantity	20,000 Pcs/Box	
	<b>Wire Size</b>	AWG	20
		mm	0.800
	<b>Single Layer</b>	Turns	12
		Rdc(Ω)	6.0 m
<b>Full Winding</b>		Turns	13
		Rdc(Ω)	6.5 m
		Turns	20
		Rdc(Ω)	15.9 m
		Turns	32
		Rdc(Ω)	40.4 m
		Turns	49
		Rdc(Ω)	98.4 m
		Turns	76
		Rdc(Ω)	242.8 m
		Turns	117
		Rdc(Ω)	594.5 m
		Turns	181
		Rdc(Ω)	1.5
		Turns	280
		Rdc(Ω)	3.6
		Turns	433
		Rdc(Ω)	8.9
		Turns	671
		Rdc(Ω)	21.8
		Turns	1,038
		Rdc(Ω)	53.7

