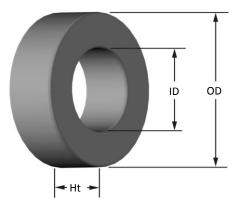


Part Number: T37-1

Revision 20190404 - Generated 2019-Apr-04



	-111		
OD	(nom bare core)	9.53 mm	0.375 in
	(max after coating)	9.91 mm	0.390 in
ID	(nom bare core)	5.21 mm	0.205 in
	(min after coating)	4.83 mm	0.190 in
Ht	(nom bare core)	3.25 mm	0.128 in
	(max after coating)	3.76 mm	0.148 in
Mass	(approximate)	0.94 grams	
Magnetic Dimensions	A <sub>e</sub> - Eff. Mag. Cross Section	0.0640 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	2.31 cm	
	V <sub>e</sub> - Eff. Core Volume	0.147 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.183 cm <sup>2</sup>	
	sa - Surface Area	3.47 cm <sup>2</sup>	
Ĕ	mlt - mean length per turn	1.50 cm	
Inductance	μ <sub>i</sub> (reference)	20	
	A <sub>L</sub> value (nominal)	8 nH/N <sup>2</sup>	
	Test Winding	N=125, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.036 V	
	A <sub>L</sub> tolerance	±10%	
S		f	$+d\cdot Bpk^2\cdot f^2$
	Core Loss(mW/cm <sup>3</sup> )= $a$		. u 2p ,
	$\frac{1}{Bpk^3} + \frac{1}{Bpk^{2.3}} + \frac{1}{Bpk^{1.65}}$		
Core Loss	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and:		
ore	a=1.90E+09, b=2.00E+08, c		)E-15
ŏ	Bpk	140 G 100 kHz	
	frequency Core Loss (nominal)	31 mW/cm <sup>3</sup>	
	Core Loss (maximum)	36 mW/cm³	
		30 11147 (111	
DC Saturation	$\%\mu_{i} = \frac{1}{a + b \cdot H^{c}} + d$		
	$a + b \cdot H^c$		
	where H expressed in oersteds, and:		
	a=1.00E-02, b=1.14E-06, c=1		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	82.2%	
	Percent Initial Perm(min.) 78.0%		
Coating/Pkg	Coating Type:	Blue/Clear Epoxy	Paint
/gu	Voltage Breakdown (min.)	500 Vrms, 60Hz	
atin	Limit 3 mA, 5 s		
ပိ	Package Quantity 20,000 Pcs/Box		
	AWG	20 22	24

