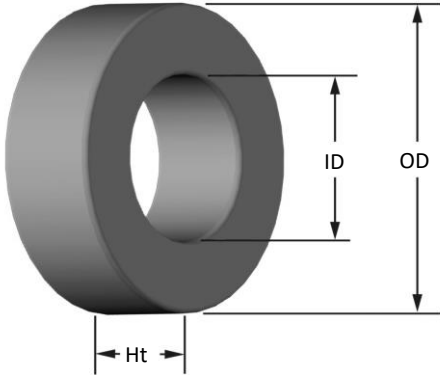




**Part Number:** **T5-3**  
Revision 20200518 - Generated 2020-May-18



<b>OD</b>	(nom. - bare core)	1.27 mm	0.050 in
	(max. - after coating)	1.40 mm	0.055 in
<b>ID</b>	(nom. - bare core)	0.64 mm	0.025 in
	(min. - after coating)	0.51 mm	0.020 in
<b>Ht</b>	(nom. - bare core)	0.64 mm	0.025 in
	(max. - after coating)	0.76 mm	0.030 in
<b>Mass</b>	(approximate)	0.00 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.00190 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	0.300 cm	
	V <sub>e</sub> - Eff. Core Volume	0.00060	
	WA - Min. Eff. Window Area	0.00203 cm <sup>2</sup>	
	sa - Surface Area	0.0768 cm <sup>2</sup>	
	mlt - mean length per turn	0.267 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	35	
	A <sub>L</sub> value (nominal)	2.8 nH/N <sup>2</sup>	
	Test Winding	N=15, #40 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.0001 V	
	A <sub>L</sub> tolerance	±10%	
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and:		
	a=1.90E+09, b=2.00E+08, c=9.00E+05, d=4.30E-15		
	B <sub>pk</sub>	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	31 mW/cm <sup>3</sup>	
	Core Loss (maximum)	36 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=3.49E-06, c=1.43, d=0.00		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	60.1%	
	Percent Initial Perm(min.)	53.7%	
<b>Coating/Plg</b>	Coating Type:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	250,000 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	40	42	44	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		mm	0.080	0.063	0.050	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
	<b>Single Layer</b>	Turns	11	15	19	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		Rdc(Ω)	101.0 m	219.1 m	441.4 m	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
<b>Full Winding</b>	Turns	12	18	28	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	
	Rdc(Ω)	110.2 m	263.0 m	650.5 m	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	

