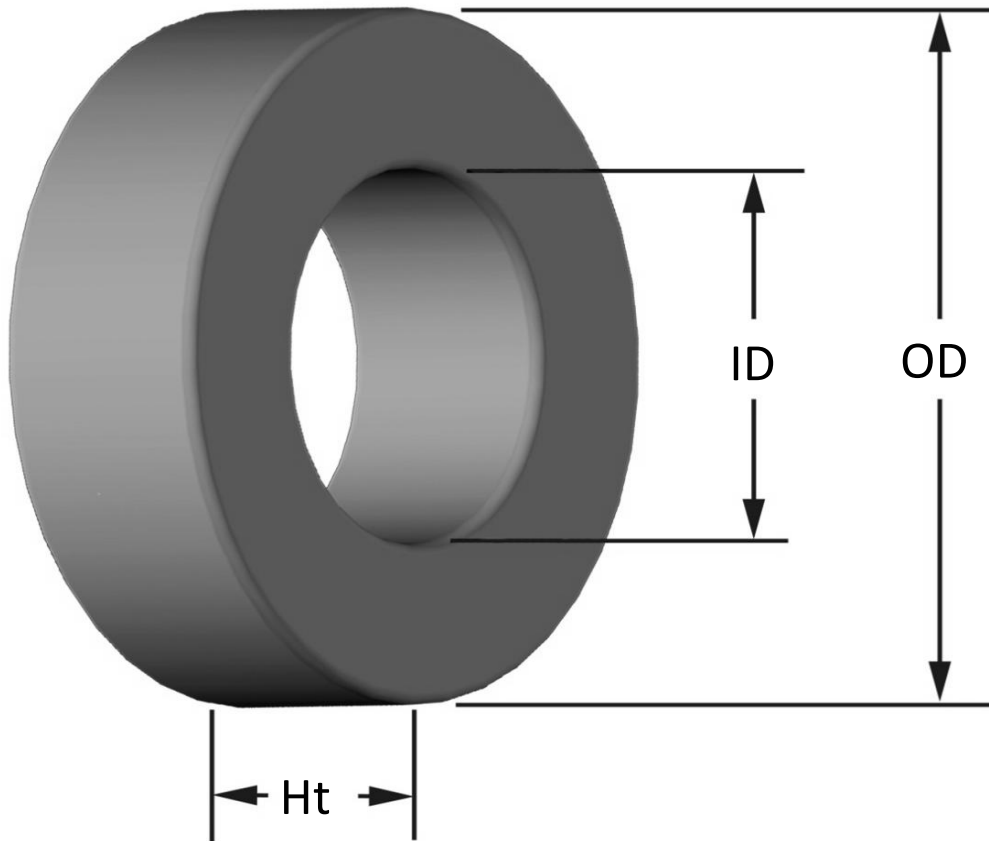




**Part Number:** **T72-0**

Revision 20190524 - Generated 2019-May-30



<b>OD</b>	(nom. - bare core) (max. - after coating)	18.29 mm 18.80 mm	0.720 in 0.740 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	7.11 mm 6.60 mm	0.280 in 0.260 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	6.60 mm 7.11 mm	0.260 in 0.280 in
<b>Mass</b>	(approximate)	3.1 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.349 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	4.01 cm	
	V <sub>e</sub> - Eff. Core Volume	1.40 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.343 cm <sup>2</sup>	
	sa - Surface Area	11.8 cm <sup>2</sup>	
	mlt - mean length per turn	2.97 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	1	
	A <sub>L</sub> value (nominal)	1.5 nH/N <sup>2</sup>	
	Test Winding	N/A	
	Frequency	N/A	
	Voltage on Agilent 4284A	N/A	
	A <sub>L</sub> tolerance	Ref Only	
<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=1.00E+99, b=1.00E+99, c=1.00E+99, d=0.00E+00		
	B <sub>pk</sub>	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	0 mW/cm <sup>3</sup>	
	Core Loss (maximum)	0 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=0.00E+00, c=0.00, d=0.00		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	100.0%	
	Percent Initial Perm(min.)	100.0%	
<b>Coating/Pkg</b>	Coating Type:	Tan/Tan Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	2,000 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	16	18	20	22	24	26	28	30	32	34	36
		mm	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125
	<b>Single Layer</b>	Turns	11	14	18	23	29	37	47	59	74	93	116
		Rdc(Ω)	4.3 m	8.7 m	17.8 m	36.2 m	72.5 m	147.2 m	297.3 m	593.5 m	1.2	2.4	4.7
<b>Full Winding</b>	Turns	10	16	25	38	59	91	141	219	339	524	812	
	Rdc(Ω)	3.9 m	9.9 m	24.7 m	59.8 m	147.6 m	361.9 m	891.9 m	2.2	5.4	13.3	32.9	

