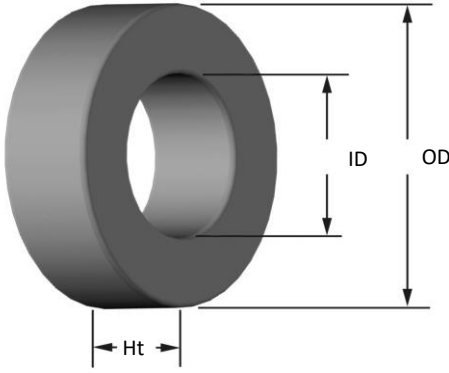




**Part Number:** **T72-5**  
Revision 2024-Jul-8 - Generated 2024-Jul-8



<b>OD</b>	(nom. - bare core)	18.29 mm	0.720 in										
	(max. - including coating, if any)	18.80 mm	0.740 in										
<b>ID</b>	(nom. - bare core)	7.11 mm	0.280 in										
	(min. - including coating, if any)	6.60 mm	0.260 in										
<b>HT</b>	(nom. - bare core)	6.60 mm	0.260 in										
	(max. - including coating, if any)	7.11 mm	0.280 in										
<b>Mass</b>	(approximate)	7.0 grams											
<b>Magnetic Dimensions</b>	Ae - Eff. Mag. Cross Section	0.349 cm <sup>2</sup>											
	Le - Eff. Mag. Path Length	4.01 cm											
	Ve - 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>	μi (reference)	5											
	AL value (nominal)	5.5 nH/N <sup>2</sup>											
	Test Winding	N=50, #28 AWG											
	Test Frequency	1 MHz											
	Voltage on Agilent 4284A	1.0 V											
	AL tolerance	±5%											
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$												
	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=4.00E+09$ , $b=3.00E+08$ , $c=2.70E+06$ , $d=8.00E-15$												
	$B_{pk}$	140 G											
	frequency	100 kHz											
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: $a=1.00E-02$ , $b=1.34E-08$ , $c=1.55$ , $d=0.00$												
<b>Coating/Pkg</b>	Coating Type:	Green/Clear 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
	<b>Full Winding</b>	Rdc(Ω)	4.3 m	8.7 m	17.8 m	36.1 m	72.5 m	147.1 m	297.1 m	593.2 m	1.2	2.4	4.7
	Turns	10	16	25	38	59	91	141	219	339	524	812	
	Rdc(Ω)	3.9 m	9.9 m	24.7 m	59.7 m	147.5 m	361.7 m	891.4 m	2.2	5.4	13.3	32.8	

