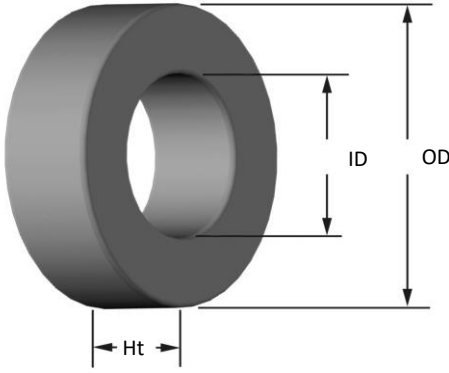




**Part Number:** **T106-5**  
Revision 2019-May-30 - Generated 2024-Jul-8



<b>OD</b>	(nom. - bare core)	26.92 mm	1.060 in
	(max. - including coating, if any)	27.43 mm	1.080 in
<b>ID</b>	(nom. - bare core)	14.48 mm	0.570 in
	(min. - including coating, if any)	13.97 mm	0.550 in
<b>HT</b>	(nom. - bare core)	11.10 mm	0.437 in
	(max. - including coating, if any)	11.73 mm	0.462 in
<b>Mass</b>	(approximate)	21 grams	
<b>Magnetic Dimensions</b>	Ae - Eff. Mag. Cross Section	0.659 cm <sup>2</sup>	
	Le - Eff. Mag. Path Length	6.49 cm	
	Ve - Eff. Core Volume	4.28 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	1.53 cm <sup>2</sup>	
	sa - Surface Area	28.1 cm <sup>2</sup>	
	mlt - mean length per turn	4.39 cm	
	$\mu$ (reference)	5	
<b>Inductance</b>	AL value (nominal)	7 nH/N <sup>2</sup>	
	Test Winding	N=100, #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	
	Core Loss (nominal)	19 mW/cm <sup>3</sup>	
Core Loss (maximum)	22 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: $a=1.00E-02$ , $b=1.34E-08$ , $c=1.55$ , $d=0.00$		
	Hdc	200 Oe	
	Percent Initial Perm (nom.)	99.5%	
Percent Initial Perm (min.)	99.4%		
<b>Coating/Pkg</b>	Coating Type:	Green/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	700 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	<b>Single Layer</b>	Turns	12	15	20	26	32	41	52	65	82	102	128
	<b>Full Winding</b>	Rdc(Ω)	1.7 m	3.4 m	7.3 m	15.0 m	29.4 m	59.9 m	120.8 m	240.1 m	481.8 m	953.1 m	1.9
	Turns	12	19	30	46	71	110	171	264	409	633	980	
	Rdc(Ω)	1.7 m	4.3 m	10.9 m	26.6 m	65.2 m	160.7 m	397.2 m	975.3 m	2.4	5.9	14.6	

