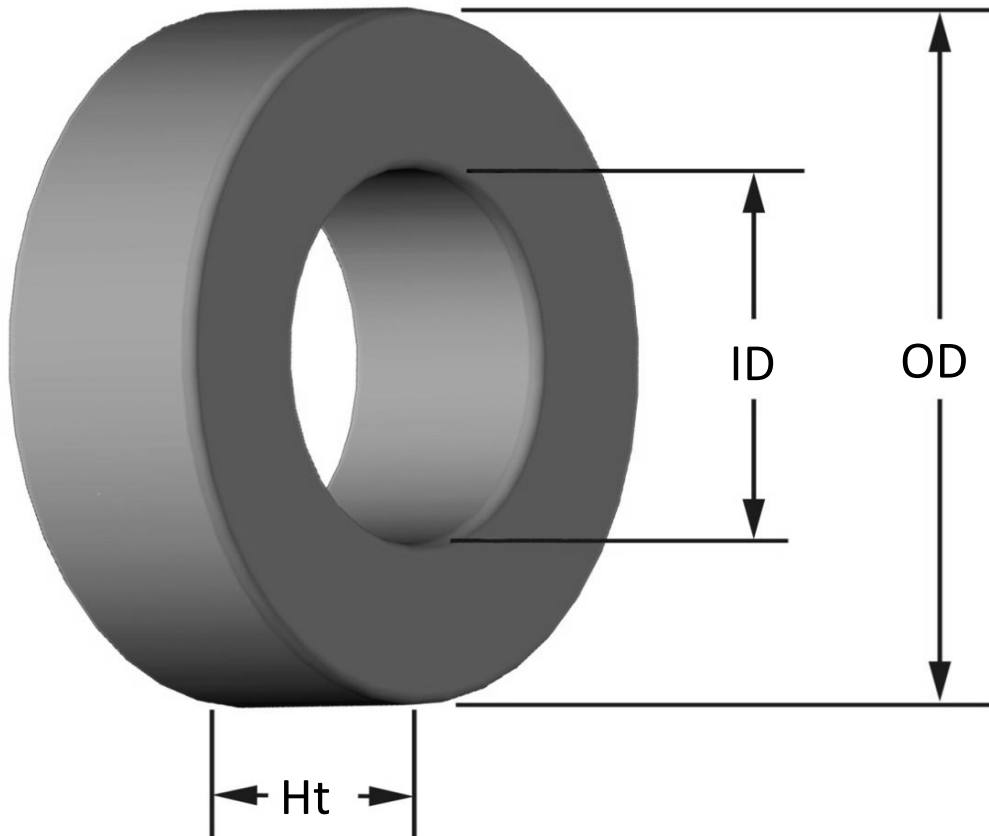




**Part Number:** **T106-15**

Revision 20190524 - Generated 2019-May-30



<b>OD</b>	(nom. - bare core) (max. - after coating)	26.92 mm 27.43 mm	1.060 in 1.080 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	14.48 mm 13.97 mm	0.570 in 0.550 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	11.10 mm 11.73 mm	0.437 in 0.462 in
<b>Mass</b>	(approximate)	27 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.659 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	6.49 cm	
	V <sub>e</sub> - 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	
<b>Inductance</b>	μ <sub>i</sub> (reference)	25	
	A <sub>L</sub> value (nominal)	34.5 nH/N <sup>2</sup>	
	Test Winding	N=100, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.29 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=5.00E-15		
	B <sub>pk</sub>	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	32 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=1.78E-06, c=1.43, d=0.00		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	74.7%	
Percent Initial Perm(min.)	69.4%		
<b>Coating/Pkg</b>	Coating Type:	Red/White 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
		Rdc(Ω)	1.7 m	3.4 m	7.3 m	15.0 m	29.4 m	59.9 m	120.8 m	240.2 m	482.0 m	953.5 m	1.9
<b>Full Winding</b>	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	397.4 m	975.7 m	2.4	5.9	14.6	

