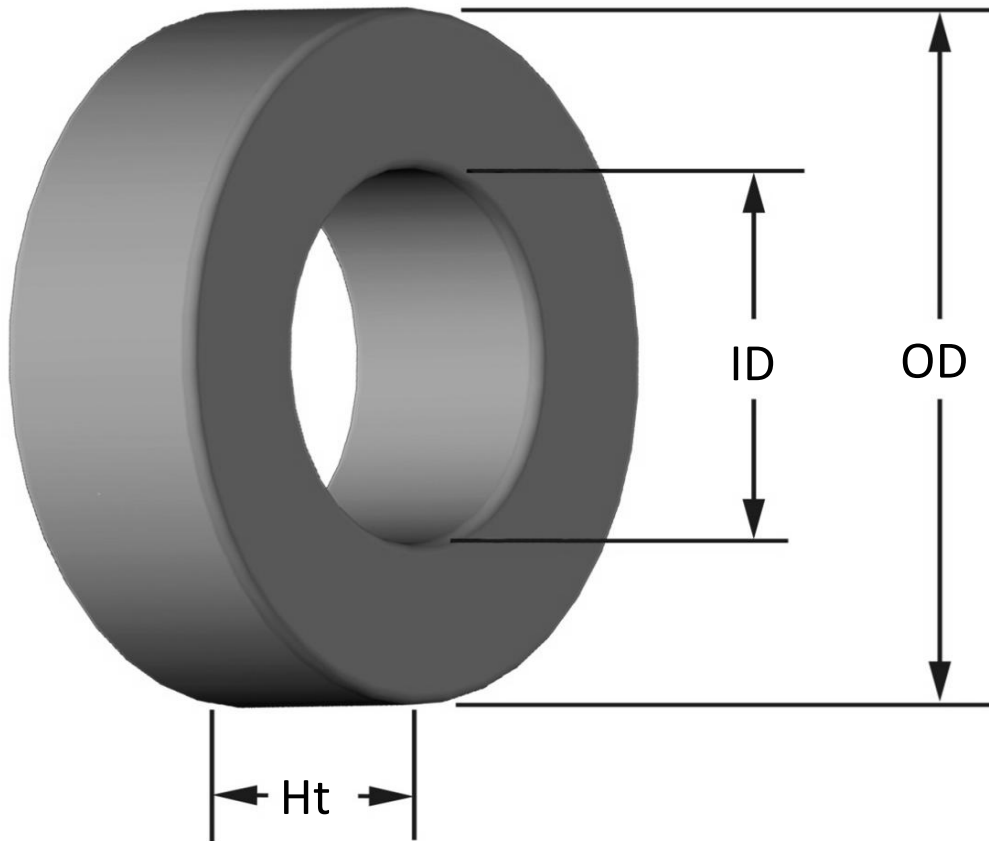




**Part Number:** **T106-6**

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)	21 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>	
<b>Inductance</b>	μ <sub>i</sub> (reference)	8.5	
	A <sub>L</sub> value (nominal)	11.6 nH/N <sup>2</sup>	
	Test Winding	N=100, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.29 V	
<b>Core Loss &amp; Q</b>	A <sub>L</sub> tolerance	±5%	
	Core Loss(mW/cm <sup>3</sup> )=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$	
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and:	a=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.90E-16	
	Q test winding	N=30, #20 AWG	
	Q frequency	2.5 MHz	
<b>DC Saturation</b>	Q min on HP4342A	308	
	%μ <sub>i</sub> =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=4.87E-08, c=1.57, d=0.00	
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	98.1%	
<b>Coating/Pkg</b>	Percent Initial Perm(min.)	97.4%	
	Coating Type:	Yellow/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
<b>Winding Table</b>	Package Quantity	700 Pcs/Box	
	Wire Size	AWG	10 12 14 16 18 20 22 24 26 28 30
<b>Single Layer</b>	mm	2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250	
	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 240.2 m 482.0 m 953.5 m 1.9	
	Turns	12 19 30 46 71 110 171 264 409 633 980	
<b>Full Winding</b>	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	

