



**Part Number:** **T106-52**

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)	30 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section L <sub>e</sub> - Eff. Mag. Path Length V <sub>e</sub> - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	0.659 cm <sup>2</sup> 6.49 cm 4.28 cm <sup>3</sup> 1.53 cm <sup>2</sup> 28.1 cm <sup>2</sup> 4.39 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference) A <sub>L</sub> value (nominal) Test Winding Frequency Voltage on Agilent 4284A A <sub>L</sub> tolerance	75 95 nH/N <sup>2</sup> N=100, #28 AWG 10 kHz 0.29 V ±10%	
<b>Core Loss</b>	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=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14		
<b>DC Saturation</b>	%μ <sub>i</sub> = $\frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: a=1.00E-02, b=4.66E-06, c=1.84, d=0.00		
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Green/Blue Epoxy Paint 500 Vrms, 60Hz 3 mA, 5 s 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	240.2 m	482.0 m	953.5 m	1.9

