



Part Number: **T106-2**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	26.92 mm 27.43 mm	1.060 in 1.080 in
ID	(nom. - bare core) (min. - after coating)	14.48 mm 13.97 mm	0.570 in 0.550 in
Ht	(nom. - bare core) (max. - after coating)	11.10 mm 11.73 mm	0.437 in 0.462 in
Mass	(approximate)	21 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.659 cm ²	
	L _e - Eff. Mag. Path Length	6.49 cm	
	V _e - Eff. Core Volume	4.28 cm ³	
	WA - Min. Eff. Window Area	1.53 cm ²	
	sa - Surface Area	28.1 cm ²	
Inductance	μ _i (reference)	10	
	A _L value (nominal)	13.5 nH/N ²	
	Test Winding	N=100, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.29 V	
Core Loss & Q	A _L tolerance	±5%	
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and:	a=4.00E+09, b=3.00E+08, c=2.70E+06, d=9.60E-16	
	Q test winding	N=60, #24 AWG	
	Q frequency	1.1 MHz	
DC Saturation	Q min on HP4342A	266	
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=1.83E-07, c=1.46, d=0.00	
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	95.9%	
Coating/Pkg	Percent Initial Perm(min.)	94.8%	
	Coating Type:	Red/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
Winding Table	Package Quantity	700 Pcs/Box	
	Wire Size	AWG	10 12 14 16 18 20 22 24 26 28 30
Single Layer	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	
Full Winding	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	
Full Winding	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	

