



Part Number: **T130-3**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	33.02 mm 33.53 mm	1.300 in 1.320 in
ID	(nom. - bare core) (min. - after coating)	19.81 mm 19.30 mm	0.780 in 0.760 in
Ht	(nom. - bare core) (max. - after coating)	11.10 mm 11.73 mm	0.437 in 0.462 in
Mass	(approximate)	38 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.698 cm ²	
	L _e - Eff. Mag. Path Length	8.28 cm	
	V _e - Eff. Core Volume	5.78 cm ³	
	WA - Min. Eff. Window Area	2.93 cm ²	
	sa - Surface Area	39.8 cm ²	
	mlt - mean length per turn	4.73 cm	
Inductance	μ _i (reference)	35	
	A _L value (nominal)	35 nH/N ²	
	Test Winding	N=100, #24 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.31 V	
Core Loss	A _L tolerance	±10%	
	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=1.90E+09, b=2.00E+08, c=9.00E+05, d=4.30E-15	
DC Saturation	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	60.1%	
	Percent Initial Perm(min.)	53.7%	
	Coating/Pkg	Coating Type: Gray/Clear Epoxy Paint	
Winding Table	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
	Single Layer	Turns	14 18 22 29 36 46 58 73 91 114 142
	Full Winding	Rdc(Ω)	1.4 m 2.8 m 5.4 m 11.4 m 22.4 m 45.6 m 91.4 m 182.9 m 362.6 m 722.4 m 1.4
		Rdc(Ω)	1.5 m 3.7 m 9.1 m 22.3 m 54.8 m 134.7 m 332.4 m 816.7 m 2.0 4.9 12.2

