



Part Number: **T130-1**

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)	37 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											
Inductance	μ _i (reference)	20											
	A _L value (nominal)	20 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)=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$											
	where B _{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											
	B _{pk}	140 G											
	frequency	100 kHz											
DC Saturation	Core Loss (nominal)	31 mW/cm ³											
	Core Loss (maximum)	36 mW/cm ³											
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.00E-02, b=1.14E-06, c=1.43, d=0.00											
	H _{DC}	200 Oe											
Coating/Pkg	Percent Initial Perm(nom.)	82.2%											
	Percent Initial Perm(min.)	78.0%											
	Coating Type:	Blue/Clear Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
Winding Table	Limit	3 mA, 5 s											
	Package Quantity	500 Pcs/Box											
	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer	Turns	14	18	22	29	36	46	58	73	91	114	142
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	
Full Winding	Turns	15	24	37	57	88	136	211	326	504	781	1,208	
	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	

