



Part Number: **T132-52**

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)	17.78 mm 17.27 mm	0.700 in 0.680 in										
Ht	(nom. - bare core) (max. - after coating)	11.10 mm 11.73 mm	0.437 in 0.462 in										
Mass	(approximate)	45 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.805 cm ²											
	L _e - Eff. Mag. Path Length	7.96 cm											
	V _e - Eff. Core Volume	6.41 cm ³											
	WA - Min. Eff. Window Area	2.34 cm ²											
	sa - Surface Area	38.9 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	95 nH/N ²											
	Test Winding	N=100, #28 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.36 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=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14											
	B _{pk}	140 G											
	frequency	100 kHz											
DC Saturation	Core Loss (nominal)	58 mW/cm ³											
	Core Loss (maximum)	67 mW/cm ³											
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.00E-02, b=4.66E-06, c=1.84, d=0.00											
	H _{DC}	50 Oe											
Coating/Pkg	Percent Initial Perm(nom.)	61.6%											
	Percent Initial Perm(min.)	53.4%											
	Coating Type:	Green/Blue 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	12	15	20	25	32	41	51	65	81	102	127
Rdc(Ω)		1.2 m	2.4 m	5.0 m	10.0 m	20.4 m	41.5 m	82.1 m	166.3 m	329.7 m	660.2 m	1.3	
Full Winding	Turns	12	19	29	45	70	109	169	261	404	625	967	
	Rdc(Ω)	1.2 m	3.0 m	7.3 m	18.0 m	44.5 m	110.3 m	271.9 m	667.9 m	1.6	4.0	10.0	

