



Part Number: **T224-52C**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	57.15 mm 57.79 mm	2.250 in 2.275 in										
ID	(nom. - bare core) (min. - after coating)	31.75 mm 31.12 mm	1.250 in 1.225 in										
Ht	(nom. - bare core) (max. - after coating)	19.05 mm 19.81 mm	0.750 in 0.780 in										
Mass	(approximate)	230 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.31 cm ²											
	L _e - Eff. Mag. Path Length	14.0 cm											
	V _e - Eff. Core Volume	32.2 cm ³											
	WA - Min. Eff. Window Area	7.60 cm ²											
	sa - Surface Area	116 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	155 nH/N ²											
	Test Winding	N=100, #24 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	1.0 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	90 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	24	30	38	48	60	76	95	119	149	185	231
Rdc(Ω)		4.0 m	8.0 m	16.2 m	32.5 m	64.6 m	130.1 m	258.7 m	515.4 m	1.0	2.0	4.0	
Full Winding	Turns	40	62	95	148	228	353	547	847	1,311	2,029	3,140	
	Rdc(Ω)	6.7 m	16.6 m	40.4 m	100.2 m	245.5 m	604.5 m	1.5	3.7	9.0	22.2	54.7	

