



Part Number: **T94-14**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	23.93 mm 24.43 mm	0.942 in 0.962 in										
ID	(nom. - bare core) (min. - after coating)	14.22 mm 13.72 mm	0.560 in 0.540 in										
Ht	(nom. - bare core) (max. - after coating)	7.92 mm 8.56 mm	0.312 in 0.337 in										
Mass	(approximate)	11 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.362 cm ²											
	L _e - Eff. Mag. Path Length	5.97 cm											
	V _e - Eff. Core Volume	2.16 cm ³											
	WA - Min. Eff. Window Area	1.48 cm ²											
	sa - Surface Area	21.0 cm ²											
Inductance	μ _i (reference)	14											
	A _L value (nominal)	10 nH/N ²											
	Test Winding	N=100, #28 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.16 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=4.00E+09, b=3.00E+08, c=2.70E+06, d=1.92E-15											
	B _{pk}	140 G											
	frequency	100 kHz											
DC Saturation	Core Loss (nominal)	18 mW/cm ³											
	Core Loss (maximum)	21 mW/cm ³											
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and:	a=1.00E-02, b=3.90E-07, c=1.46, d=0.00											
	H _{DC}	200 Oe											
Coating/Pkg	Percent Initial Perm(nom.)	91.8%											
	Percent Initial Perm(min.)	89.6%											
	Coating Type:	Black/Red Epoxy Paint											
	Voltage Breakdown (min.)	500 Vrms, 60Hz											
Winding Table	Limit	3 mA, 5 s											
	Package Quantity	1,250 Pcs/Box											
	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	12	15	20	25	32	40	51	64	80	100	126
Rdc(Ω)		1.4 m	2.7 m	5.7 m	11.4 m	23.2 m	46.2 m	93.6 m	186.9 m	371.5 m	738.5 m	1.5	
Full Winding	Turns	12	19	29	44	69	106	165	255	394	610	944	
	Rdc(Ω)	1.4 m	3.4 m	8.3 m	20.1 m	50.1 m	122.4 m	302.9 m	744.6 m	1.8	4.5	11.1	

