



Part Number: **T60-52**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	15.24 mm 15.75 mm	0.600 in 0.620 in										
ID	(nom. - bare core) (min. - after coating)	8.53 mm 8.03 mm	0.336 in 0.316 in										
Ht	(nom. - bare core) (max. - after coating)	5.94 mm 6.45 mm	0.234 in 0.254 in										
Mass	(approximate)	4.9 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.187 cm ²											
	L _e - Eff. Mag. Path Length	3.74 cm											
	V _e - Eff. Core Volume	0.699 cm ³											
	WA - Min. Eff. Window Area	0.506 cm ²											
	sa - Surface Area	9.10 cm ²											
Inductance	μ _i (reference)	75											
	A _L value (nominal)	47 nH/N ²											
	Test Winding	N=100, #32 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.083 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	3,000 Pcs/Box											
	Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Single Layer	Turns	10	13	17	22	29	36	46	58	72	91	114
Rdc(Ω)		2.0 m	4.2 m	8.8 m	18.0 m	37.8 m	74.6 m	151.7 m	304.2 m	600.5 m	1.2	2.4	
Full Winding	Turns	10	15	24	36	56	87	135	209	323	500	775	
	Rdc(Ω)	2.0 m	4.9 m	12.4 m	29.5 m	73.0 m	180.4 m	445.2 m	1.1	2.7	6.6	16.3	

