



Part Number: **T60-45**

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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)	5.0 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	
	mlt - mean length per turn	2.46 cm	
Inductance	μ _i (reference)	100	
	A _L value (nominal)	62 nH/N ²	
	Test Winding	N=100, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.083 V	
A _L tolerance	±10%		
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.20E+09, b=1.30E+08, c=2.40E+06, d=1.20E-13		
	B _{pk}	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	61 mW/cm ³	
Core Loss (maximum)	71 mW/cm ³		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=2.44E-05, c=1.61, d=0.00		
	H _{DC}	50 Oe	
	Percent Initial Perm(nom.)	43.3%	
Percent Initial Perm(min.)	36.3%		
Coating/Pkg	Coating Type:	Black/Black Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	3,000 Pcs/Box	

Winding Table	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	

