



**Part Number:** **T60-18**

Revision 20190524 - Generated 2019-May-30



<b>OD</b>	(nom. - bare core) (max. - after coating)	15.24 mm 15.75 mm	0.600 in 0.620 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	8.53 mm 8.03 mm	0.336 in 0.316 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	5.94 mm 6.45 mm	0.234 in 0.254 in
<b>Mass</b>	(approximate)	4.6 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.187 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	3.74 cm	
	V <sub>e</sub> - Eff. Core Volume	0.699 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	0.506 cm <sup>2</sup>	
	sa - Surface Area	9.10 cm <sup>2</sup>	
	mlt - mean length per turn	2.46 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	55	
	A <sub>L</sub> value (nominal)	34.5 nH/N <sup>2</sup>	
	Test Winding	N=100, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.083 V	
A <sub>L</sub> tolerance	±10%		
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=8.00E+08, b=1.70E+08, c=9.00E+05, d=3.10E-14		
	B <sub>pk</sub>	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	46 mW/cm <sup>3</sup>	
Core Loss (maximum)	53 mW/cm <sup>3</sup>		
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=4.72E-06, c=1.65, d=0.00		
	H <sub>DC</sub>	100 Oe	
	Percent Initial Perm(nom.)	51.4%	
Percent Initial Perm(min.)	43.9%		
<b>Coating/Pkg</b>	Coating Type:	Green/Red Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	3,000 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	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
<b>Full Winding</b>	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	

