



**Part Number:** T80-0

Revision 20190524 - Generated 2019-May-30



<b>OD</b>	(nom. - bare core) (max. - after coating)	20.19 mm 20.70 mm	0.795 in 0.815 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	12.57 mm 12.07 mm	0.495 in 0.475 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	6.35 mm 6.99 mm	0.250 in 0.275 in
<b>Mass</b>	(approximate)	2.6 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.231 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	5.14 cm	
	V <sub>e</sub> - Eff. Core Volume	1.19 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	1.14 cm <sup>2</sup>	
	sa - Surface Area	15.0 cm <sup>2</sup>	
	mlt - mean length per turn	2.86 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	1	
	A <sub>L</sub> value (nominal)	0.85 nH/N <sup>2</sup>	
	Test Winding	N/A	
	Frequency	N/A	
	Voltage on Agilent 4284A	N/A	
A <sub>L</sub> tolerance	Ref Only		
<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=1.00E+99, b=1.00E+99, c=1.00E+99, d=0.00E+00		
	B <sub>pk</sub>	140 G	
	frequency	100 kHz	
	Core Loss (nominal)	0 mW/cm <sup>3</sup>	
Core Loss (maximum)	0 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=0.00E+00, c=0.00, d=0.00		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	100.0%	
Percent Initial Perm(min.)	100.0%		
<b>Coating/Pkg</b>	Coating Type:	Tan/Tan Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	2,000 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	Turns	10	13	17	22	28	35	44	56	70	88	110
		Rdc(Ω)	0.9 m	1.9 m	4.0 m	8.3 m	16.8 m	33.3 m	66.7 m	135.0 m	268.3 m	536.4 m	1.1
<b>Full Winding</b>	Turns	9	14	22	34	53	82	127	197	305	472	731	
	Rdc(Ω)	0.8 m	2.1 m	5.2 m	12.8 m	31.8 m	78.1 m	192.5 m	474.8 m	1.2	2.9	7.1	

