



**Part Number:** **T14-6**

Revision 20190524 - Generated 2019-May-30



<b>OD</b>	(nom. - bare core) (max. - after coating)	3.43 mm 3.68 mm	0.135 in 0.145 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	1.70 mm 1.45 mm	0.067 in 0.057 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	1.07 mm 1.32 mm	0.042 in 0.052 in
<b>Mass</b>	(approximate)	0.03 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.00840 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	0.810 cm	
	V <sub>e</sub> - Eff. Core Volume	0.00680	
	WA - Min. Eff. Window Area	0.0165 cm <sup>2</sup>	
	sa - Surface Area	0.452 cm <sup>2</sup>	
<b>Inductance</b>	μ <sub>i</sub> (reference)	8.5	
	A <sub>L</sub> value (nominal)	1.26 nH/N <sup>2</sup>	
	Test Winding	N=30, #36 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.11 V	
	A <sub>L</sub> tolerance	±5%	
	Core Loss(mW/cm <sup>3</sup> )= $\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.90E-16			
<b>Core Loss &amp; Q</b>	Q test winding	#N/A	
	Q frequency	#N/A	
	Q min on HP4342A	#N/A	
<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=4.87E-08, c=1.57, d=0.00		
	H <sub>DC</sub>	200 Oe	
	Percent Initial Perm(nom.)	98.1%	
<b>Coating/Pkg</b>	Coating Type:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	200,000 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	AWG	30	32	34	36	38	40	42	44	#N/A	#N/A	#N/A
		mm	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	#N/A	#N/A	#N/A
	<b>Single Layer</b>	Turns	11	14	18	23	30	38	47	60	#N/A	#N/A	#N/A
		Rdc(Ω)	20.9 m	42.2 m	86.3 m	175.4 m	363.9 m	733.0 m	1.4	2.9	#N/A	#N/A	#N/A
<b>Full Winding</b>	Turns	11	16	25	39	60	93	145	224	#N/A	#N/A	#N/A	
	Rdc(Ω)	20.9 m	48.2 m	119.9 m	297.4 m	727.7 m	1.8	4.4	10.9	#N/A	#N/A	#N/A	

