



Part Number: **T16-6**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	4.06 mm 4.32 mm	0.160 in 0.170 in
ID	(nom. - bare core) (min. - after coating)	1.98 mm 1.73 mm	0.078 in 0.068 in
Ht	(nom. - bare core) (max. - after coating)	1.52 mm 1.78 mm	0.060 in 0.070 in
Mass	(approximate)	0.07 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0150 cm ²	
	L _e - Eff. Mag. Path Length	0.930 cm	
	V _e - Eff. Core Volume	0.0141 cm ³	
	WA - Min. Eff. Window Area	0.0234 cm ²	
	sa - Surface Area	0.658 cm ²	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	1.9 nH/N ²	
	Test Winding	N=40, #36 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.27 V	
Core Loss & Q	A _L tolerance	±5%	
	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=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.90E-16	
	Q test winding	N=40, #36 AWG	
	Q frequency	12 MHz	
DC Saturation	Q min on HP4342A	107	
	%μ _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 _{DC}	200 Oe	
	Percent Initial Perm(nom.)	98.1%	
Coating/Pkg	Percent Initial Perm(min.)	97.4%	
	Coating Type:	Parylene C	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
Winding Table	Package Quantity	50,000 Pcs/Box	
	Wire Size	AWG	28 30 32 34 36 38 40 42 44 #N/A #N/A
Single Layer	mm	0.315 0.250 0.200 0.160 0.125 0.100 0.080 0.063 0.050 #N/A #N/A	
	Turns	10 13 17 22 28 36 45 57 72 #N/A #N/A	
Full Winding	Rdc(Ω)	14.9 m 30.9 m 64.2 m 132.1 m 267.3 m 546.6 m 1.1 2.2 4.4 #N/A #N/A	
	Turns	10 15 23 36 56 86 133 206 319 #N/A #N/A	
Full Winding	Rdc(Ω)	14.9 m 35.6 m 86.8 m 216.1 m 534.6 m 1.3 3.2 7.9 19.5 #N/A #N/A	

