



Part Number: T7-6

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	1.78 mm 1.91 mm	0.070 in 0.075 in
ID	(nom. - bare core) (min. - after coating)	0.89 mm 0.76 mm	0.035 in 0.030 in
Ht	(nom. - bare core) (max. - after coating)	0.76 mm 0.89 mm	0.030 in 0.035 in
Mass	(approximate)	0.01 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.00350 cm ²	
	L _e - Eff. Mag. Path Length	0.420 cm	
	V _e - Eff. Core Volume	0.00150	
	WA - Min. Eff. Window Area	0.00456 cm ²	
	sa - Surface Area	0.135 cm ²	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	1.3 nH/N ²	
	Test Winding	N=10, #36 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.016 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=10, #36 AWG	
	Q frequency	60 MHz	
DC Saturation	Q min on HP4342A	42	
	%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	250,000 Pcs/Box	
	Wire Size	AWG	36 38 40 42 44 #N/A #N/A #N/A #N/A #N/A #N/A
Single Layer	mm	0.125 0.100 0.080 0.063 0.050 #N/A #N/A #N/A #N/A #N/A #N/A	
	Turns	11 14 18 24 30 #N/A #N/A #N/A #N/A #N/A #N/A	
Full Winding	Rdc(Ω)	49.5 m 100.1 m 204.7 m 434.1 m 863.0 m #N/A #N/A #N/A #N/A #N/A #N/A	
	Turns	11 17 26 40 62 #N/A #N/A #N/A #N/A #N/A #N/A	
Full Winding	Rdc(Ω)	49.5 m 121.6 m 295.7 m 723.5 m 1.8 #N/A #N/A #N/A #N/A #N/A #N/A	

