



Part Number: **T7-10**

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)	6	
	A _L value (nominal)	0.9 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=8.00E-16	
	Q test winding	N=10, #36 AWG	
	Q frequency	60 MHz	
DC Saturation	Q min on HP4342A	47	
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and:	a=1.00E-02, b=5.54E-09, c=1.69, d=0.00	
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	99.6%	
Coating/Pkg	Percent Initial Perm(min.)	99.4%	
	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	

