



Part Number: **T10-6T**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	2.46 mm 2.59 mm	0.097 in 0.102 in
ID	(nom. - bare core) (min. - after coating)	1.30 mm 1.17 mm	0.051 in 0.046 in
Ht	(nom. - bare core) (max. - after coating)	1.02 mm 1.14 mm	0.040 in 0.045 in
Mass	(approximate)	0.02 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.00540 cm ²	
	L _e - Eff. Mag. Path Length	0.580 cm	
	V _e - Eff. Core Volume	0.00310	
	WA - Min. Eff. Window Area	0.0107 cm ²	
	sa - Surface Area	0.248 cm ²	
Inductance	μ _i (reference)	8.5	
	A _L value (nominal)	1.15 nH/N ²	
	Test Winding	N=25, #40 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	0.060 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=25, #40 AWG	
	Q frequency	25 MHz	
DC Saturation	Q min on HP4342A	66	
	%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	32 34 36 38 40 42 44 #N/A #N/A #N/A #N/A
Single Layer	mm	0.200 0.160 0.125 0.100 0.080 0.063 0.050	#N/A #N/A #N/A #N/A
	Turns	11 14 18 23 30 38 48	#N/A #N/A #N/A #N/A
Full Winding	Rdc(Ω)	25.4 m 51.5 m 105.2 m 213.8 m 443.5 m 893.5 m 1.8	#N/A #N/A #N/A #N/A
	Turns	11 16 25 39 61 94 146	#N/A #N/A #N/A #N/A
Full Winding	Rdc(Ω)	25.4 m 58.8 m 146.1 m 362.6 m 901.9 m 2.2 5.5	#N/A #N/A #N/A #N/A

