



Part Number: **T25-10**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	6.48 mm 6.86 mm	0.255 in 0.270 in
ID	(nom. - bare core) (min. - after coating)	3.05 mm 2.67 mm	0.120 in 0.105 in
Ht	(nom. - bare core) (max. - after coating)	2.44 mm 2.95 mm	0.096 in 0.116 in
Mass	(approximate)	0.27 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section L_e - Eff. Mag. Path Length V_e - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	0.0370 cm ² 1.50 cm 0.0550 cm ³ 0.0559 cm ² 1.68 cm ² 1.14 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A A_L tolerance	6 1.9 nH/N ² N=50, #34 AWG 1 MHz 0.82 V ±5%	
Core Loss & Q	Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ 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 Q frequency Q min on HP4342A	N=14, #26 AWG 25 MHz 146	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.00E-02$, $b=5.54E-09$, $c=1.69$, $d=0.00$ H_{DC} Percent Initial Perm(nom.) Percent Initial Perm(min.)	200 Oe 99.6% 99.4%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Black/Clear Epoxy Paint 500 Vrms, 60Hz 3 mA, 5 s 20,000 Pcs/Box	

Winding Table	Wire Size	AWG	24	26	28	30	32	34	36	38	40	42	44
		mm	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050
	Single Layer	Turns	10	13	17	22	28	36	45	57	72	90	112
	Full Winding	Rdc(Ω)	9.6 m	19.9 m	41.3 m	85.0 m	172.1 m	351.9 m	699.6 m	1.4	2.8	5.6	11.1
	Turns	10	15	23	36	55	86	132	205	317	491	760	
	Rdc(Ω)	9.6 m	22.9 m	55.9 m	139.1 m	338.1 m	840.7 m	2.1	5.1	12.5	30.7	75.6	

