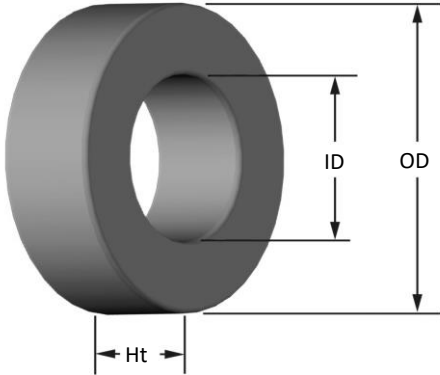




Part Number: **T25-10A**

Revision 20200721 - Generated 2020-Jul-21



OD	(nom. - bare core)	6.48 mm	0.255 in
	(max. - after coating)	6.86 mm	0.270 in
ID	(nom. - bare core)	3.05 mm	0.120 in
	(min. - after coating)	2.67 mm	0.105 in
Ht	(nom. - bare core)	1.65 mm	0.065 in
	(max. - after coating)	2.03 mm	0.080 in
Mass	(approximate)	0.20 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.0270 cm ²	
	L_e - Eff. Mag. Path Length	1.50 cm	
	V_e - Eff. Core Volume	0.0400 cm ³	
	W_A - Min. Eff. Window Area	0.0559 cm ²	
	s_a - Surface Area	1.46 cm ²	
	mlt - mean length per turn	0.959 cm	
Inductance	μ_i (reference)	6	
	A_L value (nominal)	1.46 nH/N ²	
	Test Winding	N=50, #34 AWG	
	Frequency	1 kHz	
	Voltage on Agilent 4284A	0.0006 V	
	A_L tolerance	±5%	
Core Loss & Q	Core Loss(mW/cm ³)= $\frac{f}{Bpk^3 + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$		
	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=14, #26 AWG	
	Q frequency	25 MHz	
	Q min on HP4342A	133	
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}	200 Oe	
	Percent Initial Perm(nom.)	99.6%	
	Percent Initial Perm(min.)	99.4%	
Coating/Plig	Coating Type:	Black/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	50,000 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
		Rdc(Ω)	8.1 m	16.7 m	34.7 m	71.4 m	144.5 m	295.6 m	587.6 m	1.2	2.4	4.7	9.4
Full Winding	Turns	10	15	23	36	55	86	132	205	317	491	760	
	Rdc(Ω)	8.1 m	19.2 m	46.9 m	116.9 m	283.9 m	706.0 m	1.7	4.3	10.5	25.8	63.5	

