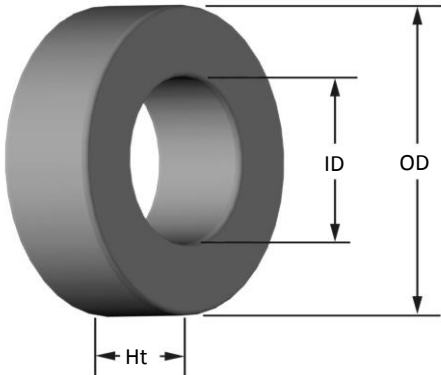




Part Number: **T94-6**
Revision 20190404 - Generated 2019-Apr-04



OD	(nom. - bare core)	23.93 mm	0.942 in
	(max. - after coating)	24.43 mm	0.962 in
ID	(nom. - bare core)	14.22 mm	0.560 in
	(min. - after coating)	13.72 mm	0.540 in
Ht	(nom. - bare core)	7.92 mm	0.312 in
	(max. - after coating)	8.56 mm	0.337 in
Mass	(approximate)	11 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.362 cm ²	
	L_e - Eff. Mag. Path Length	5.97 cm	
	V_e - Eff. Core Volume	2.16 cm ³	
	W_A - Min. Eff. Window Area	1.48 cm ²	
	s_a - Surface Area	21.0 cm ²	
	mlt - mean length per turn	3.47 cm	
Inductance	μ_i (reference)	8.5	
	A_L value (nominal)	7 nH/N ²	
	Test Winding	N=100, #28 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 V	
	A_L tolerance	±5%	
Core Loss & Q	Core Loss(mW/cm ³)= $\frac{f}{B_{pk}^3 + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and: $a=4.00E+09$, $b=3.00E+08$, $c=2.70E+06$, $d=8.90E-16$		
	Q test winding	N=25, #20 AWG	
	Q frequency	4 MHz	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	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/Plg	Coating Type:	Yellow/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
	Package Quantity	1,250 Pcs/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	12	15	20	25	32	40	51	64	80	100	126
		Rdc(Ω)	1.4 m	2.7 m	5.7 m	11.4 m	23.2 m	46.2 m	93.6 m	186.9 m	371.5 m	738.5 m	1.5
Full Winding	Turns	12	19	29	44	69	106	165	255	394	610	944	
	Rdc(Ω)	1.4 m	3.4 m	8.3 m	20.1 m	50.1 m	122.4 m	302.9 m	744.6 m	1.8	4.5	11.1	

