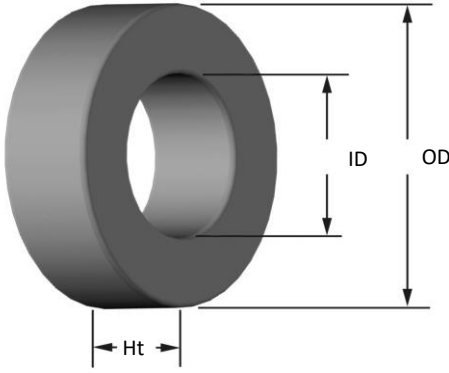




Part Number: **T94-5**
Revision 2024-Jul-8 - Generated 2024-Jul-8



OD	(nom. - bare core)	23.93 mm	0.942 in										
	(max. - including coating, if any)	24.43 mm	0.962 in										
ID	(nom. - bare core)	14.22 mm	0.560 in										
	(min. - including coating, if any)	13.72 mm	0.540 in										
HT	(nom. - bare core)	7.92 mm	0.312 in										
	(max. - including coating, if any)	8.56 mm	0.337 in										
Mass	(approximate)	11 grams											
Magnetic Dimensions	Ae - Eff. Mag. Cross Section	0.362 cm ²											
	Le - Eff. Mag. Path Length	5.97 cm											
	Ve - Eff. Core Volume	2.16 cm ³											
	WA - Min. Eff. Window Area	1.48 cm ²											
	sa - Surface Area	21.0 cm ²											
	mlt - mean length per turn	3.47 cm											
Inductance	μi (reference)	5											
	AL value (nominal)	4 nH/N ²											
	Test Winding	N=100, #28 AWG											
	Test Frequency	1 MHz											
	Voltage on Agilent 4284A	1.0 V											
	AL tolerance	±5%											
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=4.00E+09, b=3.00E+08, c=2.70E+06, d=8.00E-15												
	Bpk	140 G											
	frequency	100 kHz											
	Core Loss (nominal)	19 mW/cm ³											
Core Loss (maximum)	22 mW/cm ³												
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=1.34E-08, c=1.55, d=0.00												
	Hdc	200 Oe											
	Percent Initial Perm (nom.)	99.5%											
Percent Initial Perm (min.)	99.4%												
Coating/Pkg	Coating Type:	Green/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	738.6 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	303.0 m	744.6 m	1.8	4.5	11.1	

