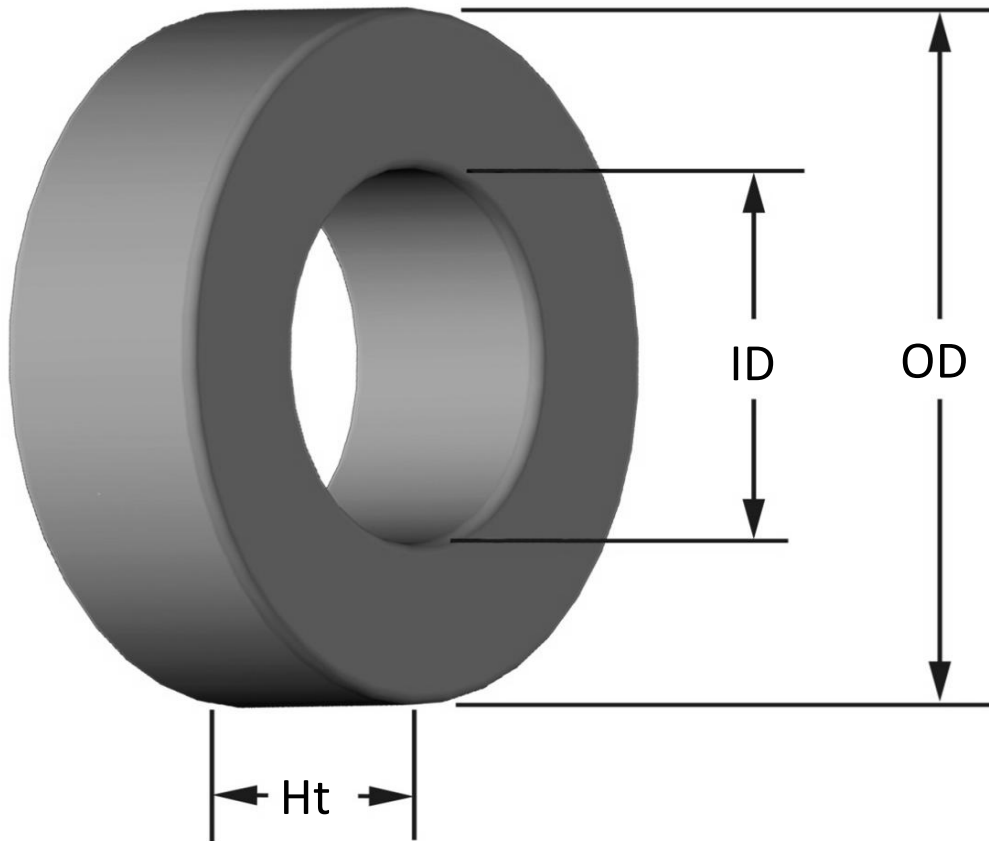




Part Number: **T94-10**

Revision 20190524 - Generated 2019-May-30



OD	(nom. - bare core) (max. - after coating)	23.93 mm 24.43 mm	0.942 in 0.962 in
ID	(nom. - bare core) (min. - after coating)	14.22 mm 13.72 mm	0.560 in 0.540 in
Ht	(nom. - bare core) (max. - after coating)	7.92 mm 8.56 mm	0.312 in 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	
	WA - Min. Eff. Window Area	1.48 cm ²	
	sa - Surface Area	21.0 cm ²	
Inductance	μ _i (reference)	6	
	A _L value (nominal)	5.8 nH/N ²	
	Test Winding	N=100, #28 AWG	
	Frequency	1 MHz	
	Voltage on Agilent 4284A	1.0 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=8.00E-16	
	Q test winding	N=10, #20 AWG	
	Q frequency	16 MHz	
DC Saturation	Q min on HP4342A	171	
	%μ _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%	
Coating/Pkg	Percent Initial Perm(min.)	99.4%	
	Coating Type:	Black/Clear Epoxy Paint	
	Voltage Breakdown (min.)	500 Vrms, 60Hz	
	Limit	3 mA, 5 s	
Winding Table	Package Quantity	1,250 Pcs/Box	
	Wire Size	AWG	10 12 14 16 18 20 22 24 26 28 30
Single Layer	mm	2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250	
	Turns	12 15 20 25 32 40 51 64 80 100 126	
Full Winding	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	
	Turns	12 19 29 44 69 106 165 255 394 610 944	
Full Winding	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	

