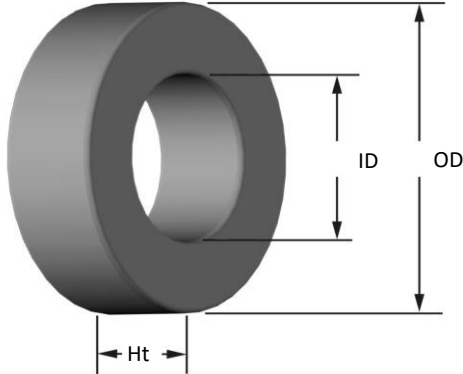




Part Number:

T90-19

Revision 2022-Oct-18 - Generated 2022-Oct-18



OD	(nom. - bare core) (max. - including coating, if any)	22.86 mm 23.37 mm	0.900 in 0.920 in
ID	(nom. - bare core) (min. - including coating, if any)	13.97 mm 13.46 mm	0.550 in 0.530 in
HT	(nom. - bare core) (max. - including coating, if any)	9.53 mm 10.16 mm	0.375 in 0.400 in
Mass	(approximate)	16 grams	
Magnetic Dimensions	Ae - Eff. Mag. Cross Section Le - Eff. Mag. Path Length Ve - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	0.395 cm ² 5.78 cm 2.28 cm ³ 1.42 cm ² 21.0 cm ² 3.70 cm	
Inductance	μi(reference) AL value (nominal) Test Winding Test Frequency Voltage on Agilent 4284A AL tolerance	55 47 nH/N ² N=100, #28 AWG 10 kHz 0.18 V ±10%	
Core Loss	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: $a=1.90E+09$, $b=8.40E+07$, $c=2.10E+06$, $d=5.00E-14$ Bpk frequency Core Loss (nominal) Core Loss (maximum)	140 G 100 kHz 54 mW/cm ³ 62 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.00E-02$, $b=3.60E-06$, $c=1.69$, $d=0.00$ Hdc Percent Initial Perm(nom.) Percent Initial Perm(min.)	100 Oe 53.8% 46.2%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Red/Green Epoxy Paint 500 Vrms, 60Hz 3 mA, 5 s 1,000 Pcs/Box	
Winding Table	Wire Size Single Layer Full Winding	AWG mm Turns Rdc(Ω) Turns Rdc(Ω)	10 2.500 11 1.3 m 12 1.5 m 12 3.5 m 14 1.600 19 5.8 m 16 1.250 25 12.2 m 18 2.000 28 8.6 m 20 1.000 31 24.0 m 22 0.800 39 48.0 m 24 0.630 50 97.8 m 26 0.500 63 195.9 m 28 0.400 79 390.7 m 30 0.315 99 778.8 m 0.250 1.5 910 11.4

