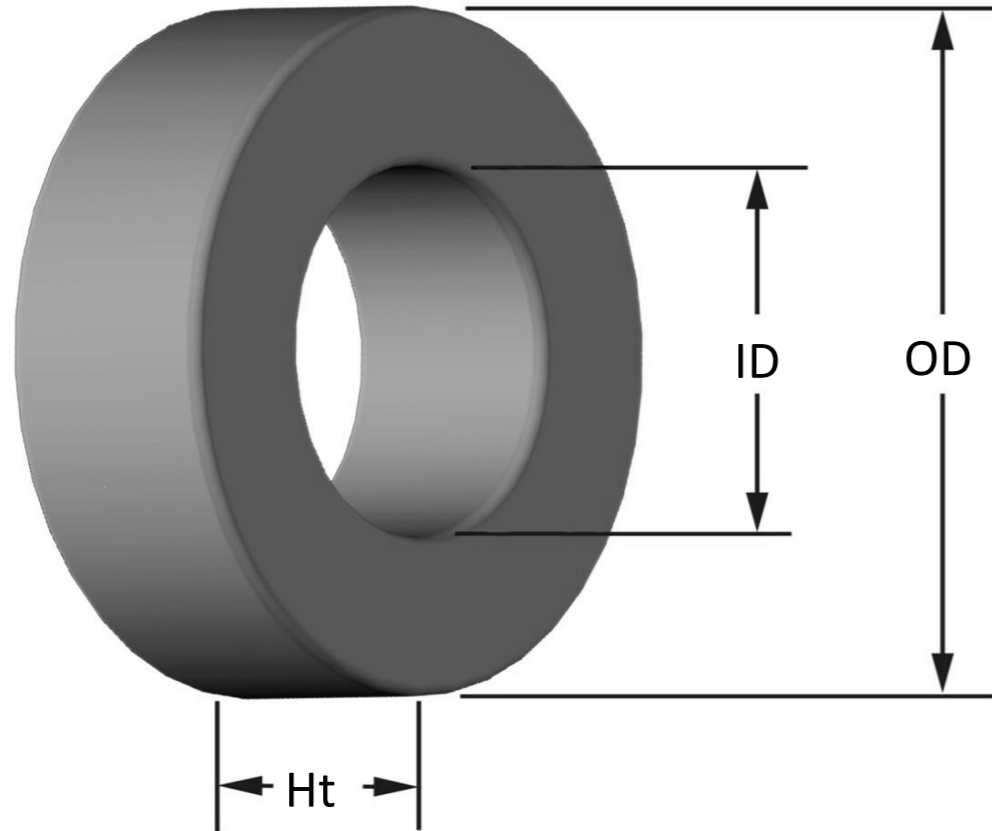




Part Number: **T94-70**
Revision 20160713 - Generated 2016-Aug-15



| | | | |
|-----------------------------|--|-------------------------|----------|
| 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) | 16 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 | |
| | mlt - mean length per turn | 3.47 cm | |
| Inductance | μ _i (reference) | 100 | |
| | A _L value (nominal) | 76 nH/N ² | |
| | Test Winding | N=100, #28 AWG | |
| | Frequency | 10 kHz | |
| | Voltage on Agilent 4284A | 0.16 V | |
| | A _L tolerance | ±10% | |
| Core Loss | Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ | | |
| | where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.00E+10, b=1.30E+09, c=7.90E+06, d=4.20E-14 | | |
| | B _{pk} | 140 G | |
| | frequency | 100 kHz | |
| | Core Loss (nominal) | 13 mW/cm ³ | |
| Core Loss (maximum) | 15 mW/cm ³ | | |
| DC Saturation | %μ _i = $\frac{1}{a + b \cdot H^c} + d$ | | |
| | where H expressed in oersteds, and: a=1.00E-02, b=1.85E-05, c=1.64, d=0.00 | | |
| | H _{DC} | 50 Oe | |
| | Percent Initial Perm.(nom.) | 46.8% | |
| Percent Initial Perm.(min.) | 39.4% | | |
| Coating/Pkg | Coating Type: | Beige/Black Epoxy Paint | |
| | Voltage Breakdown (min.) | 500 Vrms, 60Hz | |
| | Limit | 0.1 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 | |

