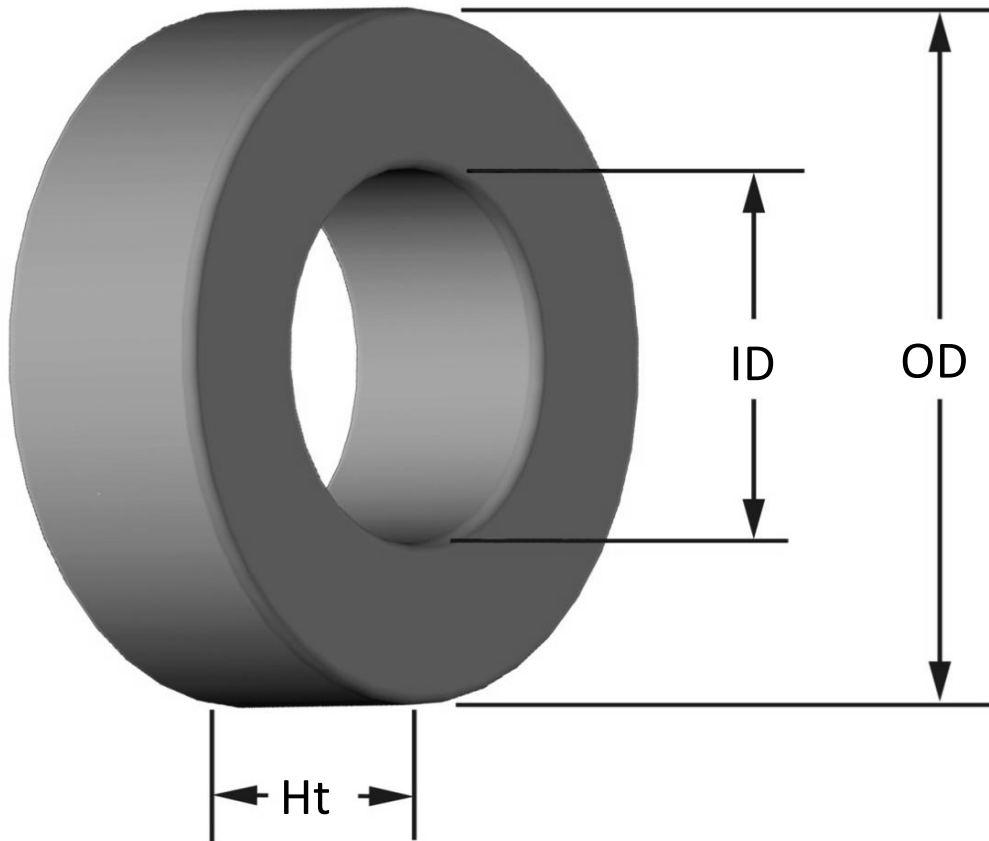




Part Number: **T25-52**

Revision 20190524 - Generated 2019-May-30



| | | | | | | | | | | | | | |
|----------------------------|--|--|----------------------|--------|--------|---------|---------|---------|---------|-------|-------|-------|-------|
| OD | (nom. - bare core) (max. - after coating) | 6.48 mm 6.86 mm | 0.255 in 0.270 in | | | | | | | | | | |
| ID | (nom. - bare core) (min. - after coating) | 3.05 mm 2.67 mm | 0.120 in 0.105 in | | | | | | | | | | |
| Ht | (nom. - bare core) (max. - after coating) | 2.44 mm 2.95 mm | 0.096 in 0.116 in | | | | | | | | | | |
| Mass | (approximate) | 0.39 grams | | | | | | | | | | | |
| Magnetic Dimensions | A _e - Eff. Mag. Cross Section | 0.0370 cm ² | | | | | | | | | | | |
| | L _e - Eff. Mag. Path Length | 1.50 cm | | | | | | | | | | | |
| | V _e - Eff. Core Volume | 0.0550 cm ³ | | | | | | | | | | | |
| | WA - Min. Eff. Window Area | 0.0559 cm ² | | | | | | | | | | | |
| | sa - Surface Area | 1.68 cm ² | | | | | | | | | | | |
| Inductance | μ _i (reference) | 75 | | | | | | | | | | | |
| | A _L value (nominal) | 23 nH/N ² | | | | | | | | | | | |
| | Test Winding | N=50, #34 AWG | | | | | | | | | | | |
| | Frequency | 10 kHz | | | | | | | | | | | |
| | Voltage on Agilent 4284A | 0.008 V | | | | | | | | | | | |
| Core Loss | A _L tolerance | ±10% | | | | | | | | | | | |
| | 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=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14 | | | | | | | | | | | |
| | B _{pk} | 140 G | | | | | | | | | | | |
| | frequency | 100 kHz | | | | | | | | | | | |
| DC Saturation | Core Loss (nominal) | 58 mW/cm ³ | | | | | | | | | | | |
| | Core Loss (maximum) | 67 mW/cm ³ | | | | | | | | | | | |
| | %μ _i = | $\frac{1}{a + b \cdot H^c} + d$ | | | | | | | | | | | |
| | where H expressed in oersteds, and: | a=1.00E-02, b=4.66E-06, c=1.84, d=0.00 | | | | | | | | | | | |
| | H _{DC} | 50 Oe | | | | | | | | | | | |
| Coating/Pkg | Percent Initial Perm(nom.) | 61.6% | | | | | | | | | | | |
| | Percent Initial Perm(min.) | 53.4% | | | | | | | | | | | |
| | Coating Type: | Green/Blue Epoxy Paint | | | | | | | | | | | |
| | Voltage Breakdown (min.) | 500 Vrms, 60Hz | | | | | | | | | | | |
| Winding Table | Limit | 3 mA, 5 s | | | | | | | | | | | |
| | Package Quantity | 20,000 Pcs/Box | | | | | | | | | | | |
| | Wire Size | AWG | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 |
| | | mm | 0.500 | 0.400 | 0.315 | 0.250 | 0.200 | 0.160 | 0.125 | 0.100 | 0.080 | 0.063 | 0.050 |
| | Single Layer | Turns | 10 | 13 | 17 | 22 | 28 | 36 | 45 | 57 | 72 | 90 | 112 |
| | | Rdc(Ω) | 9.6 m | 19.9 m | 41.3 m | 85.0 m | 172.1 m | 351.9 m | 699.6 m | 1.4 | 2.8 | 5.6 | 11.1 |
| | Full Winding | Turns | 10 | 15 | 23 | 36 | 55 | 86 | 132 | 205 | 317 | 491 | 760 |
| | | Rdc(Ω) | 9.6 m | 22.9 m | 55.9 m | 139.1 m | 338.1 m | 840.7 m | 2.1 | 5.1 | 12.5 | 30.7 | 75.6 |

