



Part Number: **T22-17A**

Revision 20190524 - Generated 2019-May-30



| | | | |
|----------------------------|--|--|------------------------------------|
| OD | (nom. - bare core) (max. - after coating) | 5.66 mm 6.05 mm | 0.223 in 0.238 in |
| ID | (nom. - bare core) (min. - after coating) | 2.46 mm 2.08 mm | 0.097 in 0.082 in |
| Ht | (nom. - bare core) (max. - after coating) | 2.44 mm 2.95 mm | 0.096 in 0.116 in |
| Mass | (approximate) | 0.23 grams | |
| Magnetic Dimensions | A _e - Eff. Mag. Cross Section | 0.0370 cm ² | |
| | L _e - Eff. Mag. Path Length | 1.28 cm | |
| | V _e - Eff. Core Volume | 0.0470 cm ³ | |
| | WA - Min. Eff. Window Area | 0.0341 cm ² | |
| | sa - Surface Area | 1.35 cm ² | |
| Inductance | μ _i (reference) | 6 | |
| | A _L value (nominal) | 2.2 nH/N ² | |
| | Test Winding | N=50, #36 AWG | |
| | Frequency | 1 MHz | |
| | Voltage on Agilent 4284A | 0.82 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/A | |
| | Q frequency | #N/A | |
| DC Saturation | Q min on HP4342A | #N/A | |
| | %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 | 40,000 Pcs/Box | |
| | Wire Size | AWG | 26 28 30 32 34 36 38 40 42 44 #N/A |
| Single Layer | mm | 0.400 0.315 0.250 0.200 0.160 0.125 0.100 0.080 0.063 0.050 #N/A | |
| | Turns | 10 13 17 21 27 35 44 55 69 87 #N/A | |
| Full Winding | Rdc(Ω) | 14.6 m 30.2 m 62.7 m 123.2 m 251.9 m 519.3 m 1.0 2.1 4.1 8.3 #N/A | |
| | Turns | 9 14 22 34 52 81 125 193 299 463 #N/A | |
| Full Winding | Rdc(Ω) | 13.1 m 32.5 m 81.2 m 199.5 m 485.2 m 1.2 2.9 7.2 17.8 44.0 #N/A | |

