



Part Number: **FS-092026-2**
 Revision 20160816 - Generated 2016-Aug-16



| | | | |
|-----------------------------|--|------------------------|----------|
| OD | (nom. - bare core) | 23.57 mm | 0.928 in |
| | (max. - after coating) | 24.28 mm | 0.956 in |
| ID | (nom. - bare core) | 14.40 mm | 0.567 in |
| | (min. - after coating) | 13.77 mm | 0.542 in |
| Ht | (nom. - bare core) | 8.89 mm | 0.350 in |
| | (max. - after coating) | 9.70 mm | 0.382 in |
| Mass | (approximate) | 14 grams | |
| Magnetic Dimensions | A _e - Eff. Mag. Cross Section | 0.388 cm ² | |
| | L _e - Eff. Mag. Path Length | 5.88 cm | |
| | V _e - Eff. Core Volume | 2.28 cm ³ | |
| | WA - Min. Eff. Window Area | 1.49 cm ² | |
| | sa - Surface Area | 21.8 cm ² | |
| | mlt - mean length per turn | 3.68 cm | |
| Inductance | μ _i (reference) | 26 | |
| | A _L value (nominal) | 22 nH/N ² | |
| | Test Winding | N=80, #26 AWG | |
| | Frequency | 10 kHz | |
| | Voltage on Agilent 4284A | 0.14 V | |
| AL tolerance | ±8% | | |
| Core Loss | $\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ | | |
| | where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=1.812E+08, c=3.251E+06, d=6.158E-14 | | |
| | B _{pk} | 300 G | |
| | frequency | 100 kHz | |
| | Core Loss (nominal) | 214 mW/cm ³ | |
| Core Loss (maximum) | 246 mW/cm ³ | | |
| DC Saturation | $\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ | | |
| | where H expressed in oersteds, and: a=1.000E-02, b=9.210E-08, c=1.912, d=0.000 | | |
| | H _{DC} | 200 Oe | |
| | Percent Initial Perm (nom.) | 81.2% | |
| Percent Initial Perm (min.) | 75.3% | | |
| Coating/Pkg | Coating Type: | Blue Epoxy | |
| | Voltage Breakdown (min.) | 1000 Vrms | |
| | Limit | 0.1 mA, 5 s | |
| | Package Quantity | 1,089 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 | 101 | 126 |
| | | Rdc(Ω) | 1.4 m | 2.9 m | 6.1 m | 12.1 m | 24.6 m | 49.0 m | 99.3 m | 198.2 m | 394.0 m | 791.0 m | 1.6 |
| Full Winding | Turns | 12 | 19 | 29 | 45 | 69 | 107 | 166 | 257 | 397 | 615 | 952 | |
| | Rdc(Ω) | 1.4 m | 3.6 m | 8.8 m | 21.8 m | 53.1 m | 131.0 m | 323.2 m | 795.8 m | 2.0 | 4.8 | 11.9 | |

