



Part Number: **E99-26**

Revision 20190524 - Generated 2019-May-30



| | | | | | | | | | | | | | |
|----------------------------|--|-----------------------|--------|--------|---------|---------|---------|-------|-------|-------|-------|-------|-------|
| A | 25.40 ± 0.25 mm | 1.000 ± 0.010 in | | | | | | | | | | | |
| B | 12.70 ± 0.13 mm | 0.500 ± 0.005 in | | | | | | | | | | | |
| C | 7.29 ± 0.13 mm | 0.287 ± 0.005 in | | | | | | | | | | | |
| D | 8.76 mm (nom.) | 0.345 in (nom.) | | | | | | | | | | | |
| E | 17.65 mm (nom.) | 0.695 in (nom.) | | | | | | | | | | | |
| F | 7.29 ± 0.13 mm | 0.287 ± 0.005 in | | | | | | | | | | | |
| Mass | (approximate) | 12 grams/half | | | | | | | | | | | |
| Magnetic Dimensions | A _e - Eff. Mag. Cross Section | 0.548 cm ² | | | | | | | | | | | |
| | L _e - Eff. Mag. Path Length | 6.08 cm | | | | | | | | | | | |
| | V _e - Eff. Core Volume | 3.38 cm ³ | | | | | | | | | | | |
| | WA - Min. Eff. Window Area | 0.897 cm ² | | | | | | | | | | | |
| | sa - Surface Area | 24.0 cm ² | | | | | | | | | | | |
| Inductance | mlt - mean length per turn | 4.99 cm | | | | | | | | | | | |
| | μ _i (reference) | 75 | | | | | | | | | | | |
| | A _L value (nominal) | 96 nH/N ² | | | | | | | | | | | |
| | Test Winding | N=100, #22 AWG | | | | | | | | | | | |
| | Frequency | 10 kHz | | | | | | | | | | | |
| Core Loss | Voltage on Agilent 4284A | 0.24 V | | | | | | | | | | | |
| | A _L tolerance | ±10% | | | | | | | | | | | |
| | $\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ | | | | | | | | | | | | |
| | where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.00E+09, b=1.10E+08, c=1.90E+06, d=1.90E-13 | | | | | | | | | | | | |
| | B _{pk} | 140 G | | | | | | | | | | | |
| DC Saturation | frequency | 100 kHz | | | | | | | | | | | |
| | Core Loss (nominal) | 83 mW/cm ³ | | | | | | | | | | | |
| | Core Loss (maximum) | 95 mW/cm ³ | | | | | | | | | | | |
| | $\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ | | | | | | | | | | | | |
| | where H expressed in oersteds, and: a=1.00E-02, b=9.70E-06, c=1.72, d=0.00 | | | | | | | | | | | | |
| Coating/Pkg | H _{DC} | 50 Oe | | | | | | | | | | | |
| | Percent Initial Perm(nom.) | 55.2% | | | | | | | | | | | |
| | Percent Initial Perm(min.) | 47.4% | | | | | | | | | | | |
| | Coating Type: | None | | | | | | | | | | | |
| | Voltage Breakdown (min.) | N/A | | | | | | | | | | | |
| Winding Table | Limit | N/A | | | | | | | | | | | |
| | Package Quantity | 1,500 Halves/Box | | | | | | | | | | | |
| | Wire Size | AWG | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
| | | mm | 1.600 | 1.250 | 1.000 | 0.800 | 0.630 | 0.500 | 0.400 | 0.315 | 0.250 | 0.200 | 0.160 |
| | Full Winding | Turns | 18 | 28 | 43 | 66 | 103 | 159 | 246 | 382 | 590 | 914 | 1,414 |
| | Rdc(Ω) | 7.4 m | 18.4 m | 44.9 m | 109.5 m | 271.9 m | 667.5 m | 1.6 | 4.1 | 10.0 | 24.5 | 60.4 | |

