



Part Number: **FS-131060-2**

Revision 20190529 - Generated 2019-May-29



(If coated, Max./Min. includes coating)

| | | | |
|----------------------------|--|--|----------------------|
| OD | (nom. - bare core) (max.) | 33.02 mm 33.83 mm | 1.300 in 1.332 in |
| ID | (nom. - bare core) (min.) | 19.94 mm 19.30 mm | 0.785 in 0.760 in |
| HT | (nom. - bare core) (max.) | 8.76 mm 9.70 mm | 0.345 in 0.382 in |
| Mass | (approximate) | 31 grams | |
| Magnetic Dimensions | A _e - Eff. Mag. Cross Section | 0.551 cm ² | |
| | L _e - Eff. Mag. Path Length | 8.15 cm | |
| | V _e - Eff. Core Volume | 4.49 cm ³ | |
| | WA - Min. Eff. Window Area | 2.93 cm ² | |
| | sa - Surface Area | 37.8 cm ² | |
| Inductance | μ _i (reference) | 60 | |
| | A _L value (nominal) | 51 nH/N ² | |
| Core Loss | Test Winding | N=70, #22 AWG | |
| | Frequency | 10 kHz | |
| | Voltage on Agilent 4284A | 0.17 V | |
| | AL tolerance | ±8% | |
| | Core Loss(mW/cm ³)= | $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ | |
| DC Saturation | where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=3.903E+08, c=3.785E+06, d=5.229E-14 | | |
| | B _{pk} | 1000 G | |
| | frequency | 50 kHz | |
| | Core Loss (nominal) | 676 mW/cm ³ | |
| DC Saturation | Core Loss (maximum) | 778 mW/cm ³ | |
| | %μ _i = | $\frac{1}{a + b \cdot H^c} + d$ | |
| | where H expressed in oersteds, and: a=1.000E-02, b=1.949E-07, c=2.099, d=0.000 | | |
| Coating/Pkg | H _{DC} | 150 Oe | |
| | Percent Initial Perm(nom.) | 58.1% | |
| | Percent Initial Perm(min.) | 48.6% | |
| | Coating Type: | Blue Epoxy | |
| Winding Table | Voltage Breakdown (min.) | 1000 Vrms | |
| | Limit | 0.1 mA, 5 s | |
| | Package Quantity | 576 Pcs/Box | |
| | | | |

| | | | | | | | | | | | | | |
|----------------------|---------------------|--------|-------|-------|--------|--------|---------|---------|---------|---------|---------|---------|-------|
| Winding Table | Wire Size | AWG | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
| | | mm | 3.150 | 2.500 | 2.000 | 1.600 | 1.250 | 1.000 | 0.800 | 0.630 | 0.500 | 0.400 | 0.315 |
| | Single Layer | Turns | 14 | 18 | 22 | 29 | 36 | 46 | 58 | 73 | 91 | 114 | 142 |
| | | Rdc(Ω) | 1.3 m | 2.6 m | 5.0 m | 10.5 m | 20.6 m | 41.9 m | 84.1 m | 168.3 m | 333.7 m | 664.9 m | 1.3 |
| Full Winding | Turns | 15 | 24 | 37 | 57 | 88 | 136 | 211 | 326 | 504 | 780 | 1,208 | |
| | Rdc(Ω) | 1.3 m | 3.4 m | 8.4 m | 20.5 m | 50.4 m | 124.0 m | 305.9 m | 751.8 m | 1.8 | 4.5 | 11.2 | |

