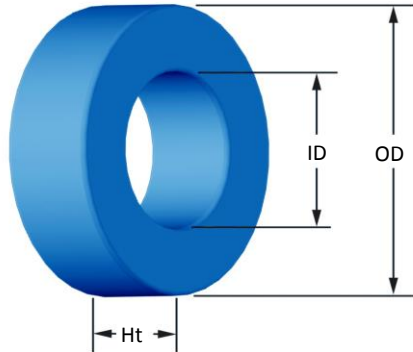




Part Number: **FS-027014-8**

Revision 20190626 - Generated 2019-Jun-27



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

| | | | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------|
| OD | (nom. - bare core) (max.) | 6.60 mm 7.24 mm | 0.260 in 0.285 in |
| ID | (nom. - bare core) (min.) | 2.67 mm 2.29 mm | 0.105 in 0.090 in |
| HT | (nom. - bare core) (max.) | 2.54 mm 3.18 mm | 0.100 in 0.125 in |
| Mass | (approximate) | 0.35 grams | |
| Magnetic Dimensions | A _e - Eff. Mag. Cross Section | 0.0467 cm ² | |
| | L _e - Eff. Mag. Path Length | 1.36 cm | |
| | V _e - Eff. Core Volume | 0.0640 cm ³ | |
| | WA - Min. Eff. Window Area | 0.0412 cm ² | |
| | sa - Surface Area | 1.83 cm ² | |
| | mlt - mean length per turn | 1.25 cm | |
| Inductance | μ _i (reference) | 14 | |
| | A _l value (nominal) | 6.05 nH/N ² | |
| | Test Winding | N=35, #32 AWG | |
| | Frequency | 10 kHz | |
| | Voltage on Agilent 4284A | 0.007 V | |
| | AL tolerance | ±8% | |
| Core Loss | Core Loss(mW/cm ³): $\frac{f}{Bpk^3} + \frac{f}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$ | | |
| | where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=6.131E+07, c=2.047E+06, d=6.095E-14 | | |
| | B _{pk} | 300 G | |
| | frequency | 100 kHz | |
| | Core Loss (nominal) | 399 mW/cm ³ | |
| Core Loss (maximum) | 459 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=2.600E-07, c=1.557, d=0.000 | | |
| | H _{DC} | 200 Oe | |
| | Percent Initial Perm.(nom.) | 90.9% | |
| Percent Initial Perm.(min.) | 88.3% | | |
| Coating/Pkg | Coating Type: | Parylene N | |
| | Voltage Breakdown (min.) | 500 Vrms | |
| | Limit | 0.1 mA, 5 s | |
| | Package Quantity | 21,600 Pcs/Box | |

| | | | | | | | | | | | | | |
|----------------------|---------------------|--------|--------|---------|---------|---------|---------|---------|-------|-------|-------|-------|---|
| Winding Table | Wire Size | AWG | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | - |
| | | mm | 0.400 | 0.315 | 0.250 | 0.200 | 0.160 | 0.125 | 0.100 | 0.080 | 0.063 | 0.050 | - |
| | Single Layer | Turns | 11 | 14 | 19 | 24 | 30 | 38 | 49 | 61 | 77 | 96 | - |
| | | Rdc(Ω) | 18.3 m | 37.1 m | 80.1 m | 160.9 m | 319.9 m | 644.5 m | 1.3 | 2.6 | 5.3 | 10.4 | - |
| Full Winding | Turns | 11 | 17 | 26 | 41 | 63 | 98 | 151 | 234 | 362 | 560 | - | |
| | Rdc(Ω) | 18.3 m | 45.1 m | 109.6 m | 274.9 m | 671.8 m | 1.7 | 4.1 | 10.0 | 24.7 | 60.8 | - | |

