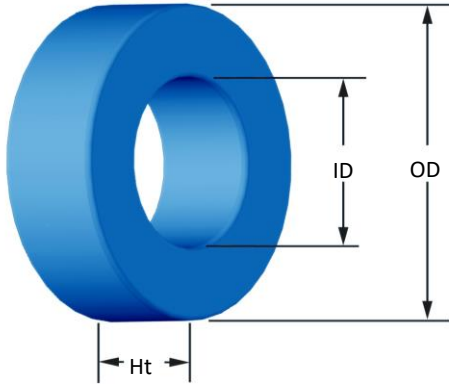




Part Number: SH-134026-2

Revision 20170403 - Generated 2017-Apr-03



| | | | |
|----------------------------|---|--|--|
| OD | (nom. - bare core) (max. - after coating) | 33.02 mm 33.83 mm | 1.300 in 1.332 in |
| ID | (nom. - bare core) (min. - after coating) | 19.94 mm 19.30 mm | 0.785 in 0.760 in |
| Ht | (nom. - bare core) (max. - after coating) | 18.00 mm 19.00 mm | 0.709 in 0.748 in |
| Mass | (approximate) | 46 grams | |
| Magnetic Dimensions | A_e - Eff. Mag. Cross Section L_e - Eff. Mag. Path Length V_e - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn | 1.10 cm ² 8.15 cm 8.98 cm ³ 2.93 cm ² 49.1 cm ² 6.22 cm | |
| Inductance | μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance | 26 44 nH/N ² N=70, #22 AWG 10 kHz 0.34 V ±8% | |
| Core Loss | Core Loss (mW/cm ³) = $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ where B_{pk} expressed in gauss, f expressed in hertz, and: $a=1.000E+06$, $b=3.287E+08$, $c=5.779E+06$, $d=1.240E-14$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum) | 500 G 100 kHz 277 mW/cm ³ 318 mW/cm ³ | |
| DC Saturation | $\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=1.042E-06$, $c=1.701$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.) | 200 Oe 53.9% 46.1% | |
| Coating/Pkg | Coating Type: Voltage Breakdown (min.) Limit Package Quantity | Blue Epoxy 1000 Vrms 0.1 mA, 5 s 320 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) | 1.8 m 3.7 m 7.1 m 14.9 m 29.4 m 59.8 m 120.0 m 240.2 m 476.2 m 948.7 m 1.9 |
| Full Winding | Turns | 15 24 37 57 88 136 211 326 504 780 1,208 | |
| | Rdc(Ω) | 1.9 m 4.9 m 12.0 m 29.3 m 72.0 m 176.9 m 436.5 m 1.1 2.6 6.5 16.0 | |

