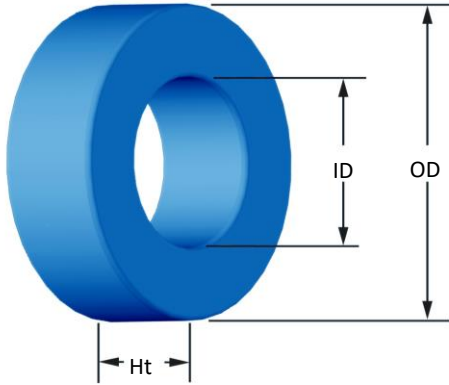




Part Number: SH-065060-2

Revision 20170403 - Generated 2017-Apr-03



| | | | |
|----------------------------|---|---|---|
| OD | (nom. - bare core) (max. - after coating) | 16.64 mm 17.40 mm | 0.655 in 0.685 in |
| ID | (nom. - bare core) (min. - after coating) | 10.16 mm 9.53 mm | 0.400 in 0.375 in |
| Ht | (nom. - bare core) (max. - after coating) | 6.35 mm 7.11 mm | 0.250 in 0.280 in |
| Mass | (approximate) | 4.4 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 | 0.192 cm ² 4.11 cm 0.789 cm ³ 0.713 cm ² 11.2 cm ² 2.69 cm | |
| Inductance | μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance | 60 35 nH/N ² N=70, #28 AWG 10 kHz 0.060 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: $a=1.000E+06$, $b=8.801E+08$, $c=5.421E+06$, $d=1.033E-14$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum) | 1000 G 50 kHz 317 mW/cm ³ 365 mW/cm ³ | |
| DC Saturation | $\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=7.724E-06$, $c=1.612$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.) | 100 Oe 43.6% 36.5% | |
| Coating/Pkg | Coating Type: Voltage Breakdown (min.) Limit Package Quantity | Blue Epoxy 1000 Vrms 0.1 mA, 5 s 2,880 Pcs/Box | |
| Winding Table | Wire Size | AWG | 12 14 16 18 20 22 24 26 28 30 32 |
| | | mm | 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315 0.250 0.200 |
| | Single Layer | Turns | 10 13 17 21 27 34 44 55 69 86 108 |
| | | Rdc(Ω) | 1.4 m 2.9 m 6.0 m 11.8 m 24.1 m 48.3 m 99.4 m 197.7 m 394.4 m 781.8 m 1.6 |
| Full Winding | Turns | 9 14 21 33 51 79 123 190 295 456 706 | |
| | Rdc(Ω) | 1.3 m 3.1 m 7.4 m 18.5 m 45.6 m 112.3 m 278.0 m 682.9 m 1.7 4.1 10.2 | |

