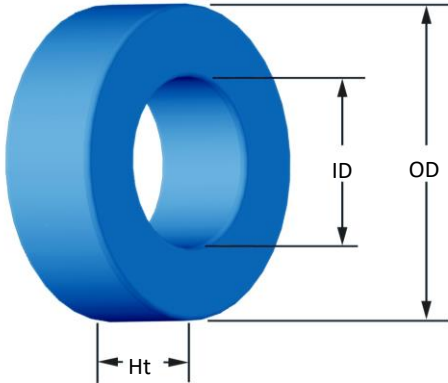




Part Number:

SH-301026-2

Revision 20170403 - Generated 2017-Apr-03



| | | | |
|----------------------------|---|---|--|
| OD | (nom. - bare core) (max. - after coating) | 77.80 mm 78.94 mm | 3.063 in 3.108 in |
| ID | (nom. - bare core) (min. - after coating) | 49.23 mm 47.96 mm | 1.938 in 1.888 in |
| Ht | (nom. - bare core) (max. - after coating) | 15.88 mm 17.15 mm | 0.625 in 0.675 in |
| Mass | (approximate) | 230 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 | 2.22 cm ² 19.612 cm 43.5 cm ³ 18.1 cm ² 193 cm ² 8.93 cm | |
| Inductance | μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance | 26 37 nH/N ² N=120, #18 AWG 10 kHz 1.2 V ±8% | |
| Core Loss | Core Loss (mW/cm ³) = $\frac{f}{a + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ 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 36 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 | 38 48 60 75 95 118 148 185 230 287 358 |
| | | Rdc(Ω) | 7.0 m 14.0 m 27.9 m 55.4 m 111.5 m 220.3 m 439.5 m 873.8 m 1.7 3.4 6.8 |
| Full Winding | Turns | 95 146 227 351 543 840 1,300 2,012 3,114 4,820 7,459 | |
| | Rdc(Ω) | 17.4 m 42.6 m 105.4 m 259.1 m 637.6 m 1.6 3.9 9.5 23.4 57.6 141.7 | |

