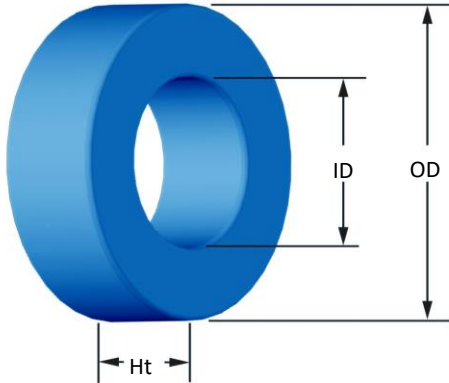




Part Number:

MS-350026-2

Revision 20170623 - Generated 2017-Jun-23



| | | | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| OD | (nom. - bare core) (max. - after coating) | 88.85 mm 90.00 mm | 3.498 in 3.543 in |
| ID | (nom. - bare core) (min. - after coating) | 66.01 mm 64.74 mm | 2.599 in 2.549 in |
| Ht | (nom. - bare core) (max. - after coating) | 15.93 mm 17.20 mm | 0.627 in 0.677 in |
| Mass | (approximate) | 220 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 | 1.83 cm ² 24 cm 43.9 cm ³ 32.9 cm ² 251 cm ² 9.20 cm | |
| Inductance | μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance | 26 24 nH/N ² N=100, #18 AWG 10 kHz 0.81 V $\pm 8\%$ | |
| 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: $a=1.000E+06$, $b=4.969E+08$, $c=3.993E+06$, $d=2.867E-14$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum) | 500 G 100 kHz 295 mW/cm ³ 339 mW/cm ³ | |
| DC Saturation | $\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=2.061E-07$, $c=1.995$, $d=0.000$ H_{oc} Percent Initial Perm.(nom.) Percent Initial Perm.(min.) | 200 Oe 55.4% 46.3% | |
| Coating/Pkg | Coating Type: Voltage Breakdown (min.) Limit Package Quantity | Blue Epoxy 1000 Vrms 0.1 mA, 5 s 45 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 | 52 65 82 103 129 161 201 250 312 389 485 |
| | | Rdc(Ω) | 9.8 m 19.6 m 39.2 m 78.4 m 156.2 m 310.0 m 615.5 m 1.2 2.4 4.8 9.5 |
| Full Winding | Turns | 172 267 413 639 989 1,530 2,369 3,666 5,674 8,782 13,592 | |
| | Rdc(Ω) | 32.5 m 80.4 m 197.7 m 486.4 m 1.2 2.9 7.3 17.9 43.9 108.2 266.3 | |

