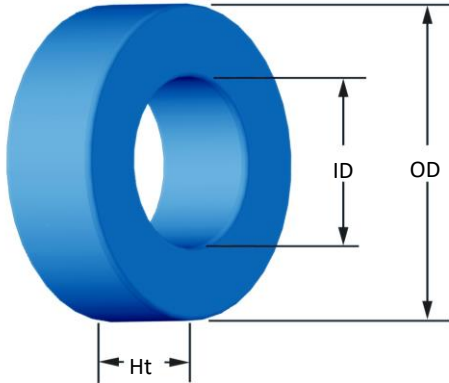




Part Number: MS-350090-2

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)	260 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	90 86 nH/N ² N=100, #18 AWG 10 kHz 0.81 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: $a=7.890E+09$, $b=7.111E+08$, $c=8.980E+06$, $d=2.846E-14$ B_{pk} frequency Core Loss (nominal) Core Loss (maximum)	1000 G 50 kHz 323 mW/cm ³ 372 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$, $b=3.994E-06$, $c=1.883$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	50 Oe 61.3% 52.9%	
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	

