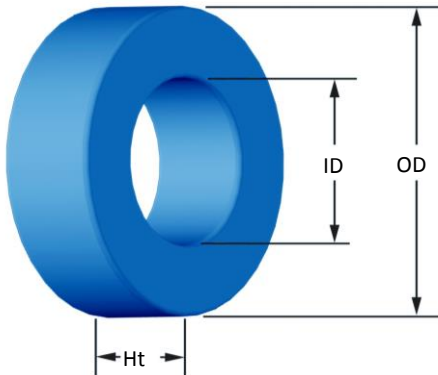




Part Number: **MS-200060-2**
Revision 20140225 - Generated 12-Mar-2014



OD	(nom. - bare core) (max. - after coating)	50.80 mm 51.69 mm	2.000 in 2.035 in
ID	(nom. - bare core) (min. - after coating)	31.75 mm 30.94 mm	1.250 in 1.218 in
Ht	(nom. - bare core) (max. - after coating)	13.46 mm 14.35 mm	0.530 in 0.565 in
Mass	(approximate)	92 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	1.25 cm ² 12.733 cm 15.9 cm ³ 7.52 cm ² 88.2 cm ² 6.49 cm	
Inductance	μ_i (reference) A_L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 73 nH/N ² N=70, #18 AWG 10 kHz 0.39 V ±8%	
Core Loss	Core Loss(mW/cm ³): $\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$ 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: $a=1.000E-02$, $b=2.151E-06$, $c=1.841$, $d=0.000$ H_{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	100 Oe 49.2% 40.9%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 125 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	23	30	38	48	60	75	94	118	148	184	230
		Rdc(Ω)	3.1 m	6.4 m	12.8 m	25.8 m	51.2 m	101.9 m	203.0 m	405.4 m	808.6 m	1.6	3.2
Full Winding	Turns	39	61	94	146	226	350	541	837	1,296	2,006	3,104	
	Rdc(Ω)	5.2 m	12.9 m	31.7 m	78.4 m	193.0 m	475.3 m	1.2	2.9	7.1	17.4	42.9	

