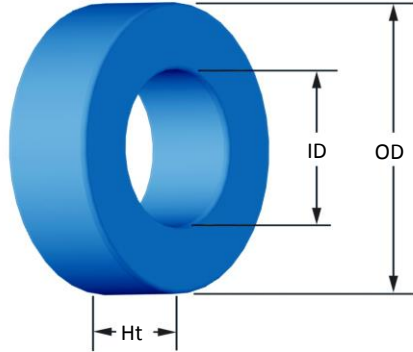




Part Number: **MS-306075-2**

Revision 20191114 - Generated 2019-Nov-14



(If coated, Max./Min. includes coating)

OD	(nom. - bare core) (max.)	77.80 mm 78.94 mm	3.063 in 3.108 in
ID	(nom. - bare core) (min.)	39.34 mm 38.34 mm	1.549 in 1.509 in
HT	(nom. - bare core) (max.)	25.85 mm 26.85 mm	1.018 in 1.057 in
Mass	(approximate)	480 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	4.78 cm ² 17 cm 81.5 cm ³ 11.5 cm ² 211 cm ² 11.3 cm	
Inductance	μ _i (reference) A _l value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	75 255 nH/N ² N=120, #18 AWG 10 kHz 2.5 V ±8%	
Core Loss	Core Loss(mW/cm ³): $\frac{f}{B_{pk}^3} + \frac{f}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ 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	%μ _i $\frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: a=1.000E-02, b=3.414E-06, c=1.841, d=0.000 H _{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	80 Oe 47.9% 39.6%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 27 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	30	38	47	60	75	94	118	147	184	229	286
		Rdc(Ω)	7.0 m	14.1 m	27.7 m	56.3 m	111.9 m	223.1 m	445.5 m	882.6 m	1.8	3.5	6.9
	Full Winding	Turns	60	94	145	224	347	537	831	1,286	1,990	3,080	4,767
		Rdc(Ω)	14.0 m	34.9 m	85.6 m	210.2 m	517.9 m	1.3	3.1	7.7	19.0	46.8	115.1

