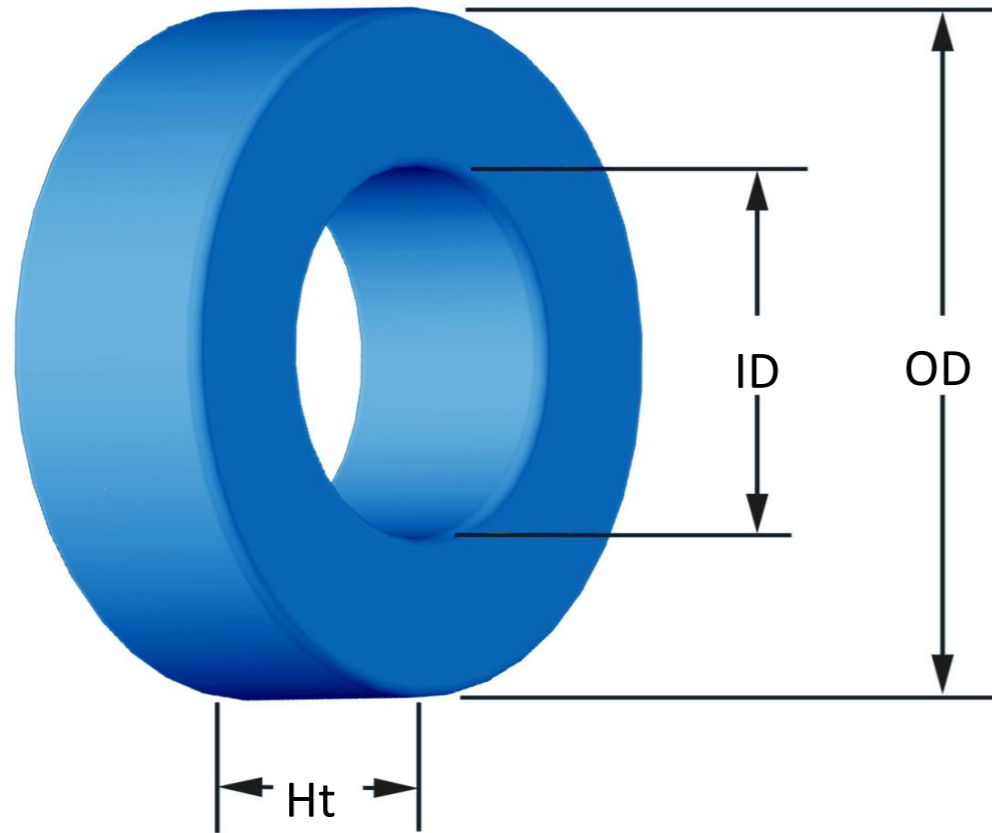




Part Number: MP-300173-2
Revision 20160816 - Generated 2016-Aug-16



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)	12.70 mm 13.97 mm	0.500 in 0.550 in
Mass	(approximate)	270 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	1.77 cm ² 19.612 cm 34.8 cm ³ 18.1 cm ² 184 cm ² 8.29 cm	
Inductance	μ _i (reference) A _L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	173 197 nH/N ² N=120, #18 AWG 10 kHz 0.94 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=3.167E+10, b=1.206E+09, c=9.656E+06, d=5.636E-14		
DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: a=1.000E-02, b=1.313E-05, c=1.935, d=0.000		
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	38	48	60	75	95	118	148	185	230	287	358
		Rdc(Ω)	6.5 m	13.0 m	25.9 m	51.4 m	103.6 m	204.6 m	408.2 m	811.5 m	1.6	3.2	6.3
Full Winding	Turns	95	146	227	351	543	840	1,300	2,012	3,114	4,820	7,459	
	Rdc(Ω)	16.2 m	39.6 m	97.9 m	240.7 m	592.1 m	1.5	3.6	8.8	21.7	53.5	131.6	

