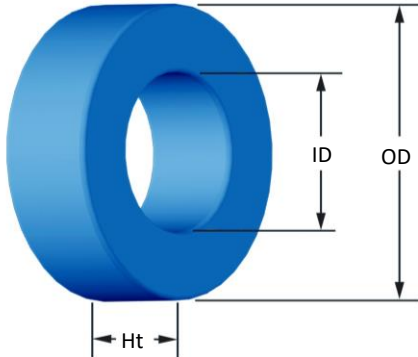




Part Number: MS-600040-2

Revision 2021-Dec-01 - Generated 2021-Dec-01



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

OD	(nom. - bare core) (max.)	152.40 mm 153.90 mm	6.000 in 6.059 in
ID	(nom. - bare core) (min.)	81.28 mm 79.65 mm	3.200 in 3.136 in
HT	(nom. - bare core) (max.)	20.32 mm 21.72 mm	0.800 in 0.855 in
Mass	(approximate)	1,380 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	7.05 cm ²	
	L _e - Eff. Mag. Path Length	35.97 cm	
	V _e - Eff. Core Volume	253 cm ³	
	WA - Min. Eff. Window Area	49.8 cm ²	
	sa - Surface Area	646 cm ²	
	mlt - mean length per turn	15.8 cm	
Inductance	μ _i (reference)	40	
	A _L value (nominal)	102 nH/N ²	
	Test Winding	N=200, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	6.3 V	
AL tolerance	±8%		
Core Loss	Core Loss(mW/cm ³): $\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=6.961E+08, c=5.397E+06, d=4.127E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	441 mW/cm ³	
Core Loss (maximum)	507 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=2.655E-06, c=1.703, d=0.000		
	H _{dc}	100 Oe	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
Package Quantity	4 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	65	81	102	127	159	198	247	309	385	479	597
		Rdc(Ω)	21.1 m	41.7 m	83.6 m	165.5 m	329.4 m	652.5 m	1.3	2.6	5.1	10.1	20.0
Full Winding	Turns	261	404	625	967	1,497	2,316	3,585	5,549	8,589	13,293	20,574	
	Rdc(Ω)	84.5 m	208.1 m	512.0 m	1.3	3.1	7.6	18.8	46.2	113.9	280.2	689.8	

