

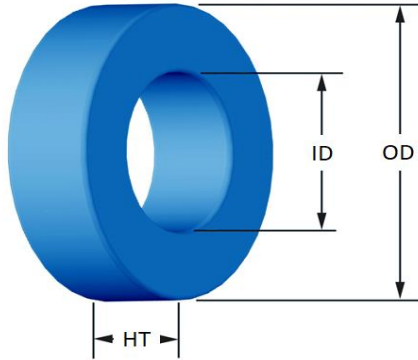


Part Number:

MS-601075-2

Revision:

2023-Dec-06



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

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OD	(nom. - bare core)		152.40	6.000		
	(max.)		153.90	6.059		
ID	(nom. - bare core)		81.28	3.200		
	(min.)		79.65	3.136		
HT	(nom. - bare core)		25.40	1.000		
	(max.)		26.80	1.055		
Mass	(approximate)		1,850	grams		
Magnetic Dimensions	A _e - Eff. Mag. Cross Section		8.81	cm ²		
	L _e - Eff. Mag. Path Length		35.97	cm		
	V _e - Eff. Core Volume		317	cm ³		
	W _A - Min. Eff. Window Area		49.8	cm ²		
	s _a - Surface Area		674	cm ²		
	mlt - mean length per turn		16.8	cm		
Inductance	μ _i (reference)		75			
	A _L value (nominal)		238	nH/N ²		
	Test Winding		200 Turns	AWG# 18		
	Frequency		10k	Hz		
	Voltage on Agilent 4284A		7.8	V		
	AL tolerance		±8%			
Core Loss	$\text{Core Loss(mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$					
	where <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and:					
	<i>a</i> =7.890E+09, <i>b</i> =7.111E+08, <i>c</i> =8.980E+06, <i>d</i> =2.846E-14					
	B _{pk}	1000	G			
	frequency	50 k	Hz			
	Core Loss (nominal)	323	mW/cm ³			
Core Loss (maximum)	372	mW/cm ³				
DC Saturation	$\% \mu_i \frac{1}{a + b \cdot H^c} + d$					
	where H expressed in oersteds, and:					
	<i>a</i> =1.000E-02, <i>b</i> =3.414E-06, <i>c</i> =1.841, <i>d</i> =0.000					
	H _{DC}	80	Oe			
	Percent Initial Perm.(nom.)	47.9	%			
	Percent Initial Perm.(min.)	39.6	%			
	Coating/Pkg	Coating Type:		Blue Epoxy		
Voltage Breakdown (min.)		1000 Vrms				
Limit		0.1 mA, 5 s				
Package Quantity		3 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	65	81	102	
		Rdc(Ω)	22.4 m	44.4 m	88.9 m	1
	Full Winding	Turns	261	404	625	
		Rdc(Ω)	90.0 m	221.5 m	545.0 m	

