

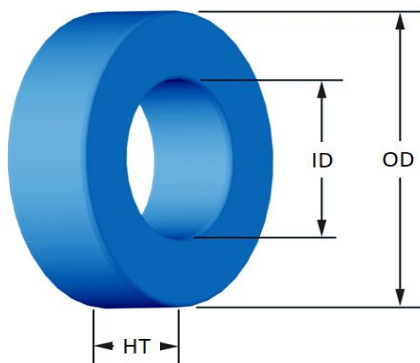


Part Number:

MS-600090-2

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)	20.32	0.800			
	(max.)	21.72	0.855			
Mass	(approximate)	1,500	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			
	W _A - Min. Eff. Window Area	49.8	cm ²			
	s _a - Surface Area	646	cm ²			
	mlt - mean length per turn	15.8	cm			
Inductance	μ _i (reference)	90				
	A _L value (nominal)	229	nH/N ²			
	Test Winding	200 Turns	AWG# 18			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	6.3	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> =4.807E-05, <i>c</i> =1.349, <i>d</i> =0.000					
	H _{bc}	50	Oe			
	Percent Initial Perm.(nom.)	51.5	%			
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)	21.1 m	41.7 m	83.6 m	1
	Full Winding	Turns	261	404	625	
		Rdc(Ω)	84.5 m	208.1 m	512.0 m	

