

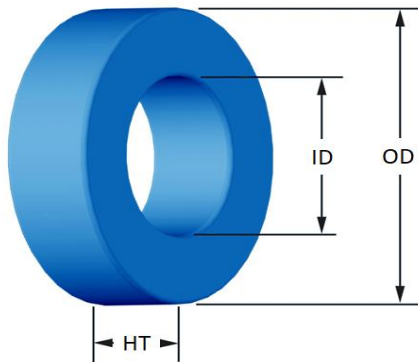


Part Number:

MS-601014-2

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)	1,550	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			
	WA - Min. Eff. Window Area	49.8	cm ²			
	sa - Surface Area	674	cm ²			
	mlt - mean length per turn	16.8	cm			
Inductance	μ _i (reference)	14				
	A _L value (nominal)	44.5	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> =1.000E+06, <i>b</i> =2.035E+08, <i>c</i> =3.969E+06, <i>d</i> =3.473E-14					
	B _{pk}	300	G			
	frequency	100 k	Hz			
	Core Loss (nominal)	168	mW/cm ³			
	Core Loss (maximum)	193	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> =1.065E-06, <i>c</i> =1.553, <i>d</i> =0.000					
	H _{DC}	200	Oe			
	Percent Initial Perm.(nom.)	71.5	%			
	Percent Initial Perm.(min.)	65.4	%			
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	

