

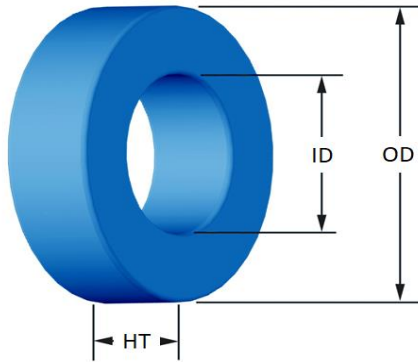


Part Number:

MS-108160-2

Revision:

2023-Dec-06



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

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OD	(nom. - bare core)	26.92	1.060			
	(max.)	27.69	1.090			
ID	(nom. - bare core)	14.73	0.580			
	(min.)	14.10	0.555			
HT	(nom. - bare core)	14.00	0.551			
	(max.)	15.00	0.591			
Mass	(approximate)	31	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.819	cm ²			
	L _e - Eff. Mag. Path Length	6.35	cm			
	V _e - Eff. Core Volume	5.20	cm ³			
	W _A - Min. Eff. Window Area	1.56	cm ²			
	s _a - Surface Area	31.7	cm ²			
	mlt - mean length per turn	5.06	cm			
Inductance	μ _i (reference)	160				
	A _L value (nominal)	250.6	nH/N ²			
	Test Winding	80 Turns	AWG# 26			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	0.29	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> =1.394E+10, <i>b</i> =1.034E+09, <i>c</i> =1.244E+07, <i>d</i> =4.007E-14					
	B _{pk}	1000	G			
	frequency	50 k	Hz			
	Core Loss (nominal)	276	mW/cm ³			
	Core Loss (maximum)	318	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> =4.439E-05, <i>c</i> =1.627, <i>d</i> =0.000					
	H _{DC}	40	Oe			
	Percent Initial Perm.(nom.)	35.8	%			
	Percent Initial Perm.(min.)	29.3	%			
Coating/Pkg	Coating Type:	Blue Epoxy				
	Voltage Breakdown (min.)	1000 Vrms				
	Limit	0.1 mA, 5 s				
	Package Quantity	378 Pcs/Box				
Winding Table	Wire Size	AWG	10	12	14	
		mm	2.500	2.000	1.600	
	Single Layer	Turns	12	16	20	
		Rdc(Ω)	2.0 m	4.2 m	8.4 m	
	Full Winding	Turns	13	20	30	
		Rdc(Ω)	2.2 m	5.3 m	12.6 m	

