

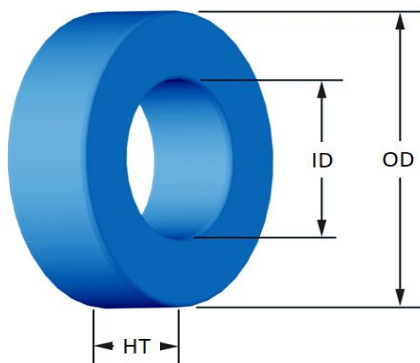


Part Number:

MS-130160-2

Revision:

2023-Dec-06



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

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OD	(nom. - bare core)	33.02	1.300			
	(max.)	33.83	1.332			
ID	(nom. - bare core)	19.94	0.785			
	(min.)	19.30	0.760			
HT	(nom. - bare core)	10.67	0.420			
	(max.)	11.61	0.457			
Mass	(approximate)	32	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.672	cm ²			
	L _e - Eff. Mag. Path Length	8.15	cm			
	V _e - Eff. Core Volume	5.48	cm ³			
	W _A - Min. Eff. Window Area	2.93	cm ²			
	s _a - Surface Area	40.1	cm ²			
	mlt - mean length per turn	4.74	cm			
Inductance	μ _i (reference)	160				
	A _L value (nominal)	163	nH/N ²			
	Test Winding	70 Turns	AWG# 22			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	0.21	V			
	AL tolerance	±8%				
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$					
	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	336 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	14	18	22	
		Rdc(Ω)	1.4 m	2.8 m	5.4 m	1
	Full Winding	Turns	15	24	37	
		Rdc(Ω)	1.5 m	3.7 m	9.1 m	

