

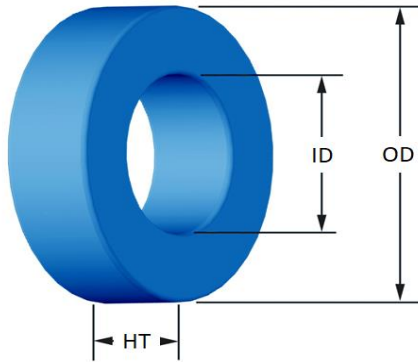


Part Number:

MS-135147-2

Revision:

2023-Dec-06



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

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OD	(nom. - bare core)	34.29	1.350			
	(max.)	35.10	1.382			
ID	(nom. - bare core)	23.37	0.920			
	(min.)	22.56	0.888			
HT	(nom. - bare core)	8.89	0.350			
	(max.)	9.83	0.387			
Mass	(approximate)	24	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.454	cm ²			
	L _e - Eff. Mag. Path Length	8.95	cm			
	V _e - Eff. Core Volume	4.06	cm ³			
	W _A - Min. Eff. Window Area	4.00	cm ²			
	s _a - Surface Area	41.4	cm ²			
	mlt - mean length per turn	4.35	cm			
Inductance	μ _i (reference)	147				
	A _L value (nominal)	93	nH/N ²			
	Test Winding	90 Turns	AWG# 22			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	0.18	V			
	AL tolerance	±8%				
Core Loss	$\text{Core Loss(mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$					
	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> =4.732E-05, <i>c</i> =1.539, <i>d</i> =0.000					
	H _{DC}	40	Oe			
	Percent Initial Perm.(nom.)	42.0	%			
	Percent Initial Perm.(min.)	35.3	%			
Coating/Pkg	Coating Type:	Blue Epoxy				
	Voltage Breakdown (min.)	1000 Vrms				
	Limit	0.1 mA, 5 s				
	Package Quantity	350 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	16	21	27	
		Rdc(Ω)	1.4 m	3.0 m	6.1 m	
	Full Winding	Turns	21	32	50	
		Rdc(Ω)	1.9 m	4.5 m	11.3 m	

