

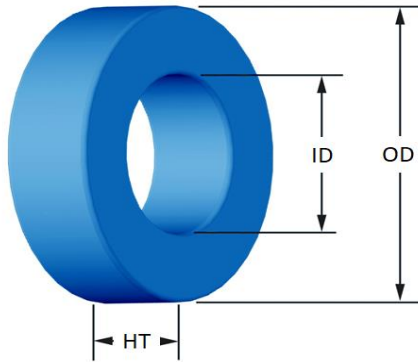


Part Number:

MS-268125-2

Revision:

2023-Dec-18



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

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OD	(nom. - bare core)	68.00	2.677			
	(max.)	69.42	2.733			
ID	(nom. - bare core)	36.00	1.417			
	(min.)	34.67	1.365			
HT	(nom. - bare core)	20.00	0.787			
	(max.)	21.41	0.843			
Mass	(approximate)	290	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	3.14	cm ²			
	L _e - Eff. Mag. Path Length	15.8	cm			
	V _e - Eff. Core Volume	49.7	cm ³			
	W _A - Min. Eff. Window Area	9.44	cm ²			
	s _a - Surface Area	159	cm ²			
	mlt - mean length per turn	9.49	cm			
Inductance	μ _i (reference)	125				
	A _L value (nominal)	312	nH/N ²			
	Test Winding	100 Turns	AWG# 18			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	1.4	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 B _{pk} expressed in gauss, f expressed in hertz, and: a=1.394E+10, b=1.034E+09, c=1.244E+07, d=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: a=1.000E-02, b=7.884E-06, c=1.883, d=0.000					
	H _{DC}	40	Oe			
	Percent Initial Perm.(nom.)	55.0	%			
	Percent Initial Perm.(min.)	46.4	%			
Coating/Pkg	Coating Type:	Blue Epoxy				
	Voltage Breakdown (min.)	1000 Vrms				
	Limit	0.1 mA, 5 s				
	Package Quantity	24 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	27	34	43	
		Rdc(Ω)	5.3 m	10.6 m	21.2 m	42.4 m
	Full Winding	Turns	49	76	118	
		Rdc(Ω)	9.6 m	23.6 m	58.2 m	116.4 m

