

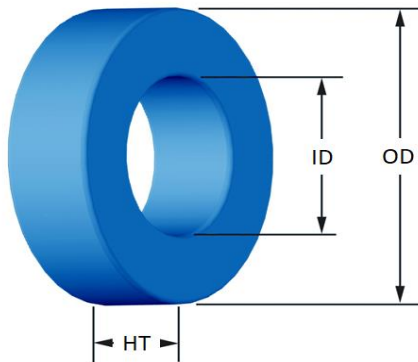


Part Number:

MS-226147-2H305

Revision:

2023-Dec-18



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

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OD	(nom. - bare core)	57.15	2.250			
	(max.)	58.04	2.285			
ID	(nom. - bare core)	26.39	1.039			
	(min.)	25.58	1.007			
HT	(nom. - bare core)	30.48	1.200			
	(max.)	31.37	1.235			
Mass	(approximate)	340	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	4.57	cm ²			
	L _e - Eff. Mag. Path Length	12.506	cm			
	V _e - Eff. Core Volume	57.2	cm ³			
	W _A - Min. Eff. Window Area	5.14	cm ²			
	s _a - Surface Area	136	cm ²			
	mlt - mean length per turn	10.8	cm			
Inductance	μ _i (reference)	147				
	A _L value (nominal)	676	nH/N ²			
	Test Winding	60 Turns	AWG# 18			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	1.2	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: $a=1.000E-02$, $b=4.732E-05$, $c=1.539$, $d=0.000$					
	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	36 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	19	24	31	
		Rdc(Ω)	4.2 m	8.5 m	17.4 m	
	Full Winding	Turns	27	42	64	
		Rdc(Ω)	6.0 m	14.8 m	35.9 m	

