

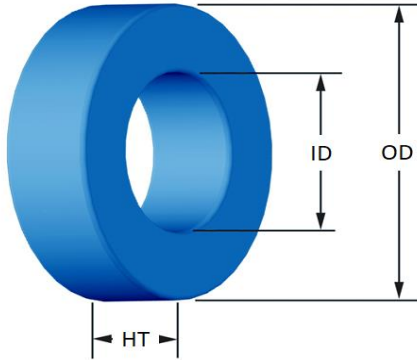


Part Number:

MS-226014-2H305

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)	280	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			
	m _{lt} - mean length per turn	10.8	cm			
Inductance	μ _i (reference)	14				
	A _L value (nominal)	64	nH/N ²			
	Test Winding	60 Turns	AWG# 18			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	1.2	V			
	AL tolerance	±8%				
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$					
	where <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and: <i>a</i> =1.000E+06, <i>b</i> =1.814E+08, <i>c</i> =3.377E+06, <i>d</i> =2.628E-14					
	B _{pk}	300	G			
	frequency	100 k	Hz			
	Core Loss (nominal)	180	mW/cm ³			
	Core Loss (maximum)	207	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> =9.443E-07, <i>c</i> =1.533, <i>d</i> =0.000					
	H _{DC}	200	Oe			
	Percent Initial Perm.(nom.)	75.9	%			
	Percent Initial Perm.(min.)	70.4	%			
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	

