

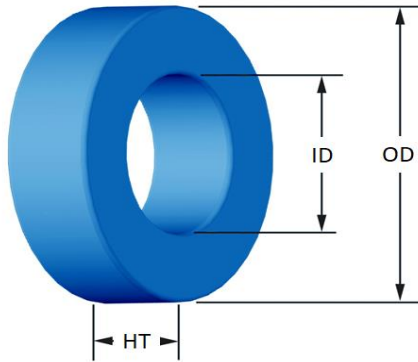


Part Number:

MS-292040-2

Revision:

2023-Dec-18



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

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OD	(nom. - bare core)	74.10	2.917			
	(max.)	75.20	2.961			
ID	(nom. - bare core)	45.30	1.783			
	(min.)	44.10	1.736			
HT	(nom. - bare core)	35.00	1.378			
	(max.)	36.20	1.425			
Mass	(approximate)	500	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	4.94	cm ²			
	L _e - Eff. Mag. Path Length	18.4	cm			
	V _e - Eff. Core Volume	90.9	cm ³			
	W _A - Min. Eff. Window Area	15.3	cm ²			
	s _a - Surface Area	228	cm ²			
	m _{lt} - mean length per turn	12.6	cm			
Inductance	μ _i (reference)	40				
	A _L value (nominal)	137	nH/N ²			
	Test Winding	100 Turns	AWG# 18			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	2.2	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 <i>B_{pk}</i> expressed in gauss, <i>f</i> expressed in hertz, and: <i>a</i> =1.000E+06, <i>b</i> =6.961E+08, <i>c</i> =5.397E+06, <i>d</i> =4.127E-14					
	B _{pk}	1000	G			
	frequency	50 k	Hz			
	Core Loss (nominal)	441	mW/cm ³			
	Core Loss (maximum)	507	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> =2.655E-06, <i>c</i> =1.703, <i>d</i> =0.000					
	H _{DC}	100	Oe			
	Percent Initial Perm.(nom.)	59.6	%			
	Percent Initial Perm.(min.)	52.0	%			
Coating/Pkg	Coating Type:	Blue Epoxy				
	Voltage Breakdown (min.)	1000 Vrms				
	Limit	0.1 mA, 5 s				
	Package Quantity	12 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	35	44	55	
		Rdc(Ω)	9.0 m	18.1 m	35.9 m	
	Full Winding	Turns	80	124	192	
		Rdc(Ω)	20.7 m	50.9 m	125.4 m	

