

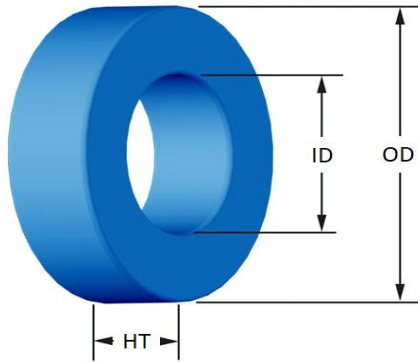


Part Number:

MS-130040-2

Revision:

2023-Dec-06



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

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OD	(nom. - bare core)		33.02	1.300		
	(max.)		33.83	1.332		
ID	(nom. - bare core)		19.94	0.785		
	(min.)		19.30	0.760		
HT	(nom. - bare core)		10.67	0.420		
	(max.)		11.61	0.457		
Mass	(approximate)		30	grams		
Magnetic Dimensions	A _e - Eff. Mag. Cross Section		0.672	cm ²		
	L _e - Eff. Mag. Path Length		8.15	cm		
	V _e - Eff. Core Volume		5.48	cm ³		
	W _A - Min. Eff. Window Area		2.93	cm ²		
	s _a - Surface Area		40.1	cm ²		
	mlt - mean length per turn		4.74	cm		
Inductance	μ _i (reference)		40			
	A _L value (nominal)		41	nH/N ²		
	Test Winding		70 Turns	AWG# 22		
	Frequency		10k	Hz		
	Voltage on Agilent 4284A		0.21	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		336 Pcs/Box			
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	14	18	22	
		Rdc(Ω)	1.4 m	2.8 m	5.4 m	
	Full Winding	Turns	15	24	37	
		Rdc(Ω)	1.5 m	3.7 m	9.1 m	

