

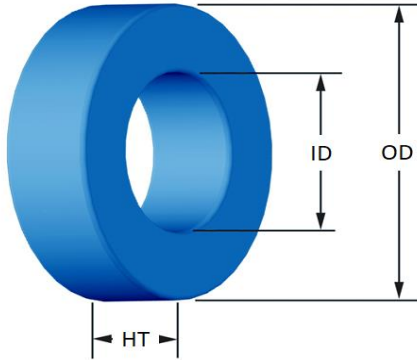


Part Number:

MS-135014-2

Revision:

2023-Dec-06



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

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OD	(nom. - bare core)		34.29	1.350		
	(max.)		35.10	1.382		
ID	(nom. - bare core)		23.37	0.920		
	(min.)		22.56	0.888		
HT	(nom. - bare core)		8.89	0.350		
	(max.)		9.83	0.387		
Mass	(approximate)		20	grams		
Magnetic Dimensions	A _e - Eff. Mag. Cross Section		0.454	cm ²		
	L _e - Eff. Mag. Path Length		8.95	cm		
	V _e - Eff. Core Volume		4.06	cm ³		
	W _A - Min. Eff. Window Area		4.00	cm ²		
	s _a - Surface Area		41.4	cm ²		
	mlt - mean length per turn		4.35	cm		
Inductance	μ _i (reference)		14			
	A _L value (nominal)		9	nH/N ²		
	Test Winding		90 Turns	AWG# 22		
	Frequency		10k	Hz		
	Voltage on Agilent 4284A		0.18	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	%		
Coating/Pkg	Coating Type:		Blue Epoxy			
	Voltage Breakdown (min.)		1000 Vrms			
	Limit		0.1 mA, 5 s			
	Package Quantity		350 Pcs/Box			
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	16	21	27	
		Rdc(Ω)	1.4 m	3.0 m	6.1 m	
	Full Winding	Turns	21	32	50	
		Rdc(Ω)	1.9 m	4.5 m	11.3 m	

