

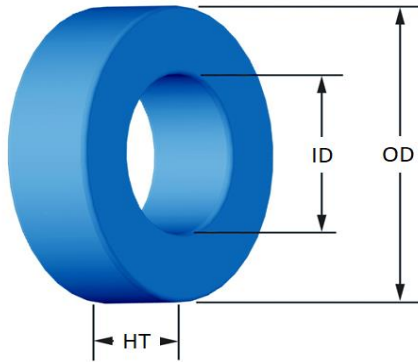


Part Number:

MS-171125-2

Revision:

2023-Dec-18



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

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OD	(nom. - bare core)		43.40	1.709		
	(max.)		44.30	1.744		
ID	(nom. - bare core)		26.40	1.039		
	(min.)		25.50	1.004		
HT	(nom. - bare core)		16.20	0.638		
	(max.)		17.10	0.673		
Mass	(approximate)		83	grams		
Magnetic Dimensions	A _e - Eff. Mag. Cross Section		1.31	cm ²		
	L _e - Eff. Mag. Path Length		10.74	cm		
	V _e - Eff. Core Volume		14.1	cm ³		
	WA - Min. Eff. Window Area		5.11	cm ²		
	sa - Surface Area		72.0	cm ²		
	mlt - mean length per turn		6.58	cm		
Inductance	μ _i (reference)		125			
	A _L value (nominal)		191	nH/N ²		
	Test Winding		70 Turns	AWG# 22		
	Frequency		10k	Hz		
	Voltage on Agilent 4284A		0.41	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> =1.394E+10, <i>b</i> =1.034E+09, <i>c</i> =1.244E+07, <i>d</i> =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: <i>a</i> =1.000E-02, <i>b</i> =7.884E-06, <i>c</i> =1.883, <i>d</i> =0.000					
	H _{DC}	40	Oe			
	Percent Initial Perm.(nom.)	55.0	%			
	Percent Initial Perm.(min.)	46.4	%			
Coating/Pkg	Coating Type:		Blue Epoxy			
	Voltage Breakdown (min.)		1000 Vrms			
	Limit		0.1 mA, 5 s			
	Package Quantity		120 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)	2.6 m	5.2 m	10.6 m	
	Full Winding	Turns	27	41	64	
		Rdc(Ω)	3.7 m	8.8 m	21.9 m	

