

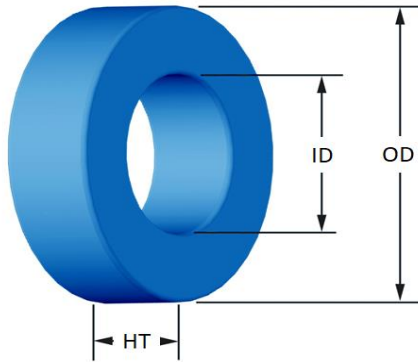


Part Number:

MS-171147-2

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		
	W _A - Min. Eff. Window Area	5.11	cm ²		
	s _a - Surface Area	72.0	cm ²		
Inductance	mlt - mean length per turn	6.58	cm		
	μ _i (reference)	147			
	A _L value (nominal)	225	nH/N ²		
	Test Winding	70 Turns	AWG# 22		
	Frequency	10k	Hz		
Core Loss	Voltage on Agilent 4284A	0.41	V		
	AL tolerance	±8%			
	$\text{Core Loss(mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$				
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.394E+10, b=1.034E+09, c=1.244E+07, d=4.007E-14				
	B _{pk}	1000	G		
DC Saturation	frequency	50 k	Hz		
	Core Loss (nominal)	276	mW/cm ³		
	Core Loss (maximum)	318	mW/cm ³		
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$				
	where H expressed in oersteds, and: a=1.000E-02, b=4.732E-05, c=1.539, d=0.000				
Coating/Pkg	H _{dc}	40	Oe		
	Percent Initial Perm.(nom.)	42.0	%		
	Percent Initial Perm.(min.)	35.3	%		
	Coating Type:	Blue Epoxy			
	Voltage Breakdown (min.)	1000 Vrms			
Winding Table	Limit	0.1 mA, 5 s			
	Package Quantity	120 Pcs/Box			
	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	

