

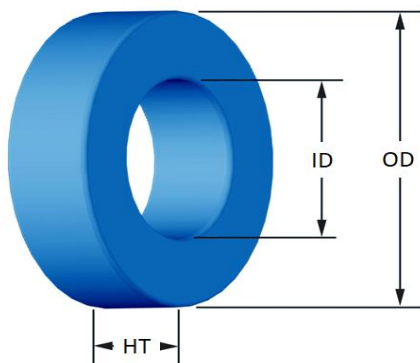


Part Number:

MS-068147-2H127

Revision:

2023-Dec-18



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

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OD	(nom. - bare core)	17.27	0.680			
	(max.)	18.03	0.710			
ID	(nom. - bare core)	9.65	0.380			
	(min.)	9.02	0.355			
HT	(nom. - bare core)	12.70	0.500			
	(max.)	13.46	0.530			
Mass	(approximate)	11	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.464	cm ²			
	L _e - Eff. Mag. Path Length	4.14	cm			
	V _e - Eff. Core Volume	1.92	cm ³			
	WA - Min. Eff. Window Area	0.639	cm ²			
	sa - Surface Area	15.8	cm ²			
	mlt - mean length per turn	4.04	cm			
Inductance	μ _i (reference)	147				
	A _L value (nominal)	210	nH/N ²			
	Test Winding	70 Turns	AWG# 28			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	0.14	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 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			
	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: $a=1.000E-02$, $b=4.732E-05$, $c=1.539$, $d=0.000$					
	H _{DC}	40	Oe			
	Percent Initial Perm.(nom.)	42.0	%			
	Percent Initial Perm.(min.)	35.3	%			
Coating/Pkg	Coating Type:	Blue Epoxy				
	Voltage Breakdown (min.)	1000 Vrms				
	Limit	0.1 mA, 5 s				
	Package Quantity	1,080 Pcs/Box				
Winding Table	Wire Size	AWG	14	16	18	
		mm	1.600	1.250	1.000	
	Single Layer	Turns	12	15	20	
		Rdc(Ω)	4.0 m	8.0 m	16.9 m	3
	Full Winding	Turns	12	19	30	
		Rdc(Ω)	4.0 m	10.1 m	25.4 m	

