



Part Number:

MS-350014-2

Revision:

2023-Dec-18



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

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OD	(nom. - bare core)	88.85	3.498			
	(max.)	90.00	3.543			
ID	(nom. - bare core)	66.01	2.599			
	(min.)	64.74	2.549			
HT	(nom. - bare core)	15.93	0.627			
	(max.)	17.20	0.677			
Mass	(approximate)	220	grams			
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.83	cm ²			
	L _e - Eff. Mag. Path Length	24	cm			
	V _e - Eff. Core Volume	43.9	cm ³			
	WA - Min. Eff. Window Area	32.9	cm ²			
	sa - Surface Area	251	cm ²			
	mlt - mean length per turn	9.20	cm			
Inductance	μ _i (reference)	14				
	A _L value (nominal)	13	nH/N ²			
	Test Winding	100 Turns	AWG# 18			
	Frequency	10k	Hz			
	Voltage on Agilent 4284A	0.81	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> =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	%			
	Percent Initial Perm.(min.)	70.4	%			
Coating/Pkg	Coating Type:	Blue Epoxy				
	Voltage Breakdown (min.)	1000 Vrms				
	Limit	0.1 mA, 5 s				
	Package Quantity	25 Pcs/Box				
Winding Table	Wire Size	AWG	8	10	12	
		mm	3.150	2.500	2.000	
	Single Layer	Turns	52	65	82	
		Rdc(Ω)	9.8 m	19.6 m	39.2 m	
	Full Winding	Turns	172	267	413	
		Rdc(Ω)	32.5 m	80.4 m	197.7 m	

