



Part Number: **MS-132014-2**

Revision 2021-Dec-01 - Generated 2021-Dec-01



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

OD	(nom. - bare core) (max.)	33.02 mm 33.83 mm	1.300 in 1.332 in	
ID	(nom. - bare core) (min.)	19.94 mm 19.30 mm	0.785 in 0.760 in	
HT	(nom. - bare core) (max.)	11.18 mm 11.99 mm	0.440 in 0.472 in	
Mass	(approximate)	28 grams		
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.698 cm ²		
	L _e - Eff. Mag. Path Length	8.15 cm		
	V _e - Eff. Core Volume	5.69 cm ³		
	WA - Min. Eff. Window Area	2.93 cm ²		
	sa - Surface Area	40.6 cm ²		
Inductance	μ _i (reference)	14		
	A _L value (nominal)	15 nH/N ²		
Core Loss	Test Winding	N=70, #22 AWG		
	Frequency	10 kHz		
	Voltage on Agilent 4284A	0.22 V		
	AL tolerance	±8%		
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$ <p>where B_{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=1.814E+08, c=3.377E+06, d=2.628E-14</p>			
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ <p>where H expressed in oersteds, and: a=1.000E-02, b=9.443E-07, c=1.533, d=0.000</p>			
	H _{DC}	200 Oe		
	Percent Initial Perm(nom.)	75.9%		
Coating/Pkg	Coating Type:	Blue Epoxy		
	Voltage Breakdown (min.)	1000 Vrms		
Winding Table	Limit	0.1 mA, 5 s		
	Package Quantity	448 Pcs/Box		
	Wire Size	AWG	8	10
		mm	3.150	2.500
Single Layer	Turns	14	18	
	Rdc(Ω)	1.4 m	2.8 m	
Full Winding	Turns	15	24	
	Rdc(Ω)	1.5 m	3.8 m	

		8	10	12	14	16	18	20	22	24	26	28
	Turns	14	18	22	29	36	46	58	73	91	114	142
	Rdc(Ω)	1.4 m	2.8 m	5.5 m	11.6 m	22.8 m	46.3 m	92.9 m	186.0 m	368.8 m	734.8 m	1.5
	Turns	15	24	37	57	88	136	211	326	504	780	1,208
	Rdc(Ω)	1.5 m	3.8 m	9.3 m	22.7 m	55.7 m	137.0 m	338.1 m	830.8 m	2.0	5.0	12.4

