



Part Number: MP-108014-2
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OD	(nom. - bare core) (max. - after coating)	26.92 mm 27.81 mm	1.060 in 1.095 in
ID	(nom. - bare core) (min. - after coating)	14.73 mm 14.10 mm	0.580 in 0.555 in
Ht	(nom. - bare core) (max. - after coating)	14.00 mm 15.00 mm	0.551 in 0.591 in
Mass	(approximate)	31 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.819 cm ²	
	L _e - Eff. Mag. Path Length	6.35 cm	
	V _e - Eff. Core Volume	5.20 cm ³	
	WA - Min. Eff. Window Area	1.56 cm ²	
	sa - Surface Area	31.9 cm ²	
	mlt - mean length per turn	5.08 cm	
Inductance	μ _i (reference)	14	
	A _L value (nominal)	22 nH/N ²	
	Test Winding	N=80, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.29 V	
AL tolerance	±8%		
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.914E+09, b=4.349E+08, c=4.331E+06, d=8.850E-14		
	B _{pk}	300 G	
	frequency	100 kHz	
	Core Loss (nominal)	157 mW/cm ³	
Core Loss (maximum)	180 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=5.683E-07, c=1.662, d=0.000		
	H _{DC}	200 Oe	
	Percent Initial Perm (nom.)	72.5%	
Percent Initial Perm (min.)	66.0%		
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	400 Pcs/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	12	16	20	26	33	41	52	66	82	103	129
		Rdc(Ω)	2.0 m	4.2 m	8.4 m	17.4 m	35.0 m	69.2 m	139.7 m	281.9 m	557.1 m	1.1	2.2
Full Winding	Turns	13	20	30	47	73	112	174	269	417	645	998	
	Rdc(Ω)	2.2 m	5.3 m	12.6 m	31.4 m	77.5 m	189.2 m	467.3 m	1.1	2.8	7.0	17.1	

