



**Part Number: MP-106205-2**  
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<b>OD</b>	(nom. - bare core)	26.92 mm	1.060 in
	(max. - after coating)	27.69 mm	1.090 in
<b>ID</b>	(nom. - bare core)	14.73 mm	0.580 in
	(min. - after coating)	14.10 mm	0.555 in
<b>Ht</b>	(nom. - bare core)	11.18 mm	0.440 in
	(max. - after coating)	11.99 mm	0.472 in
<b>Mass</b>	(approximate)	33 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.654 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	6.35 cm	
	V <sub>e</sub> - Eff. Core Volume	4.15 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	1.56 cm <sup>2</sup>	
	sa - Surface Area	28.8 cm <sup>2</sup>	
	mlt - mean length per turn	4.46 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	205	
	A <sub>L</sub> value (nominal)	257 nH/N <sup>2</sup>	
	Test Winding	N=80, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.23 V	
	AL tolerance	±8%	
<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> )= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.143E+10, b=2.045E+09, c=1.156E+07, d=8.981E-14		
	B <sub>pk</sub>	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	350 mW/cm <sup>3</sup>	
Core Loss (maximum)	402 mW/cm <sup>3</sup>		
<b>DC Saturation</b>	%μ <sub>i</sub> = $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=3.822E-06, c=2.349, d=0.000		
	H <sub>DC</sub>	30 Oe	
	Percent Initial Perm.(nom.)	47.0%	
Percent Initial Perm.(min.)	36.6%		
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	500 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	Turns	12	16	20	26	33	41	52	66	82	103	129
		Rdc(Ω)	1.8 m	3.7 m	7.4 m	15.3 m	30.8 m	60.9 m	122.8 m	247.8 m	489.7 m	978.2 m	1.9
<b>Full Winding</b>	Turns	13	20	30	47	73	112	174	269	417	645	998	
	Rdc(Ω)	1.9 m	4.6 m	11.1 m	27.6 m	68.1 m	166.3 m	410.8 m	1.0	2.5	6.1	15.1	

