



**Part Number:** EMS-0964226-026

Revision 20160816 - Generated 2016-Aug-16



<b>A</b>	96 ± 1.45 mm	3.780 ± 0.057 in
<b>B</b>	41.5 ± 0.64 mm	1.634 ± 0.025 in
<b>C</b>	25.5 ± 0.51 mm	1.004 ± 0.020 in
<b>D</b>	25 mm (min.)	0.984 in (min.)
<b>E</b>	64.4 mm (min.)	2.535 in (min.)
<b>F</b>	31.6 ± 0.64 mm	1.244 ± 0.025 in
<b>Mass</b>	(approximate)	370 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	8.02 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	18.03 cm
	V <sub>e</sub> - Eff. Core Volume	145 cm <sup>3</sup>
	WA - Min. Eff. Window Area	8.04 cm <sup>2</sup>
	sa - Surface Area	288 cm <sup>2</sup>
	mlt - mean length per turn	18.0 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	26
	A <sub>L</sub> value (nominal)	201 nH/N <sup>2</sup>
	Test Winding	N=100, #14 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	3.6 V
	A <sub>L</sub> tolerance	±8%
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.00E+06, b=4.97E+08, c=3.99E+06, d=2.87E-14	
	B <sub>pk</sub>	500 G
	frequency	100 kHz
	Core Loss (nominal)	295 mW/cm <sup>3</sup>
Core Loss (maximum)	339 mW/cm <sup>3</sup>	
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=0.01, b=1.53E-06, c=1.65, d=0.00	
	H <sub>DC</sub>	200 Oe
	Percent Initial Perm(nom.)	50.5%
Percent Initial Perm(min.)	43.0%	
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	24 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	AWG	8	10	12	14	16	18	20	22	24	26	28
		mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	<b>Full Winding</b>	Turns	43	67	104	161	249	385	596	922	1,428	2,210	3,420
	Rdc(Ω)		15.9 m	39.4 m	97.2 m	239.4 m	588.9 m	1.4	3.6	8.8	21.6	53.2	130.9

