



Part Number: **E101-8**

Revision 20190524 - Generated 2019-May-30



A	25.91 ± 0.25 mm	1.020 ± 0.010 in											
B	9.53 ± 0.13 mm	0.375 ± 0.005 in											
C	14.10 ± 0.13 mm	0.555 ± 0.005 in											
D	4.45 mm (nom.)	0.175 in (nom.)											
E	19.43 mm (nom.)	0.765 in (nom.)											
F	6.35 ± 0.13 mm	0.250 ± 0.005 in											
Mass	(approximate)	7.7 grams/half											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.895 cm ²											
	L _e - Eff. Mag. Path Length	3.93 cm											
	V _e - Eff. Core Volume	2.36 cm ³											
	WA - Min. Eff. Window Area	0.576 cm ²											
	sa - Surface Area	26.3 cm ²											
Inductance	mlt - mean length per turn	6.71 cm											
	μ _i (reference)	35											
	A _L value (nominal)	116 nH/N ²											
	Test Winding	N=100, #26 AWG											
	Frequency	10 kHz											
Core Loss	Voltage on Agilent 4284A	0.40 V											
	A _L tolerance	±10%											
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.90E+09, b=2.00E+08, c=9.00E+05, d=5.00E-15												
	B _{pk}	140 G											
DC Saturation	frequency	100 kHz											
	Core Loss (nominal)	32 mW/cm ³											
	Core Loss (maximum)	36 mW/cm ³											
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=3.49E-06, c=1.43, d=0.00												
Coating/Pkg	H _{DC}	200 Oe											
	Percent Initial Perm(nom.)	60.1%											
	Percent Initial Perm(min.)	53.7%											
	Coating Type:	None, Yellow/Red Stripes											
Winding Table	Voltage Breakdown (min.)	N/A											
	Limit	N/A											
	Package Quantity	600 Halves/Box											
	Wire Size	AWG	16	18	20	22	24	26	28	30	32	34	36
Full Winding		mm	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125
		Turns	18	28	43	66	102	158	245	379	587	908	1,405
		Rdc(Ω)	15.9 m	39.3 m	95.9 m	234.2 m	575.6 m	1.4	3.5	8.6	21.2	52.1	128.3

