



**Part Number:** **E118-26**

Revision 20190524 - Generated 2019-May-30



<b>A</b>	30.10 ± 0.25 mm	1.185 ± 0.010 in											
<b>B</b>	15.06 ± 0.13 mm	0.593 ± 0.005 in											
<b>C</b>	7.06 ± 0.13 mm	0.278 ± 0.005 in											
<b>D</b>	9.93 mm (nom.)	0.391 in (nom.)											
<b>E</b>	19.86 mm (nom.)	0.782 in (nom.)											
<b>F</b>	7.06 ± 0.13 mm	0.278 ± 0.005 in											
<b>Mass</b>	(approximate)	16 grams/half											
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.498 cm <sup>2</sup>											
	L <sub>e</sub> - Eff. Mag. Path Length	7.14 cm											
	V <sub>e</sub> - Eff. Core Volume	4.60 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	1.26 cm <sup>2</sup>											
	sa - Surface Area	31.7 cm <sup>2</sup>											
<b>Inductance</b>	mlt - mean length per turn	5.38 cm											
	μ <sub>i</sub> (reference)	75											
	A <sub>L</sub> value (nominal)	90 nH/N <sup>2</sup>											
	Test Winding	N=100, #20 AWG											
	Frequency	10 kHz											
<b>Core Loss</b>	Voltage on Agilent 4284A	0.22 V											
	A <sub>L</sub> 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 <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.00E+09, b=1.10E+08, c=1.90E+06, d=1.90E-13												
	B <sub>pk</sub>	140 G											
<b>DC Saturation</b>	frequency	100 kHz											
	Core Loss (nominal)	83 mW/cm <sup>3</sup>											
	Core Loss (maximum)	95 mW/cm <sup>3</sup>											
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=9.70E-06, c=1.72, d=0.00												
<b>Coating/Pkg</b>	H <sub>DC</sub>	50 Oe											
	Percent Initial Perm(nom.)	55.2%											
	Percent Initial Perm(min.)	47.4%											
	Coating Type:	None, Yellow/White Stripes											
	Voltage Breakdown (min.)	N/A											
<b>Winding Table</b>	Limit	N/A											
	Package Quantity	1,225 Halves/Box											
	<b>Wire Size</b>	AWG	12	14	16	18	20	22	24	26	28	30	32
		mm	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200
	<b>Full Winding</b>	Turns	16	25	39	60	93	144	223	346	535	829	1,282
Rdc(Ω)		4.5 m	11.1 m	27.6 m	67.6 m	166.6 m	410.3 m	1.0	2.5	6.1	15.1	37.2	

