



**Part Number:** **E49-26**  
Revision 20160713 - Generated 2016-Aug-15



<b>A</b>	12.70 ± 0.25 mm	0.500 ± 0.010 in
<b>B</b>	5.56 ± 0.13 mm	0.219 ± 0.005 in
<b>C</b>	3.18 ± 0.13 mm	0.125 ± 0.005 in
<b>D</b>	3.96 mm (nom.)	0.156 in (nom.)
<b>E</b>	9.53 mm (nom.)	0.375 in (nom.)
<b>F</b>	3.18 ± 0.13 mm	0.125 ± 0.005 in
<b>Mass</b>	(approximate)	1.0 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.101 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	2.86 cm
	V <sub>e</sub> - Eff. Core Volume	0.288 cm <sup>3</sup>
	WA - Min. Eff. Window Area	0.247 cm <sup>2</sup>
	sa - Surface Area	5.45 cm <sup>2</sup>
	mlt - mean length per turn	2.54 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	75
	A <sub>L</sub> value (nominal)	38 nH/N <sup>2</sup>
	Test Winding	N=100, #28 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.045 V
A <sub>L</sub> tolerance	±10%	
<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+09, b=1.10E+08, c=1.90E+06, d=1.90E-13	
	B <sub>pk</sub>	140 G
	frequency	100 kHz
	Core Loss (nominal)	83 mW/cm <sup>3</sup>
Core Loss (maximum)	95 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=1.00E-02, b=9.70E-06, c=1.72, d=0.00	
	H <sub>DC</sub>	50 Oe
	Percent Initial Perm(nom.)	55.2%
Percent Initial Perm(min.)	47.4%	
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	10,000 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	AWG	20	22	24	26	28	30	32	34	36	38	40
		mm	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080
	<b>Full Winding</b>	Turns	18	28	44	68	105	162	251	389	602	931	1,442
	Rdc(Ω)		15.2 m	37.6 m	94.1 m	231.2 m	567.7 m	1.4	3.4	8.5	20.8	51.2	126.2

