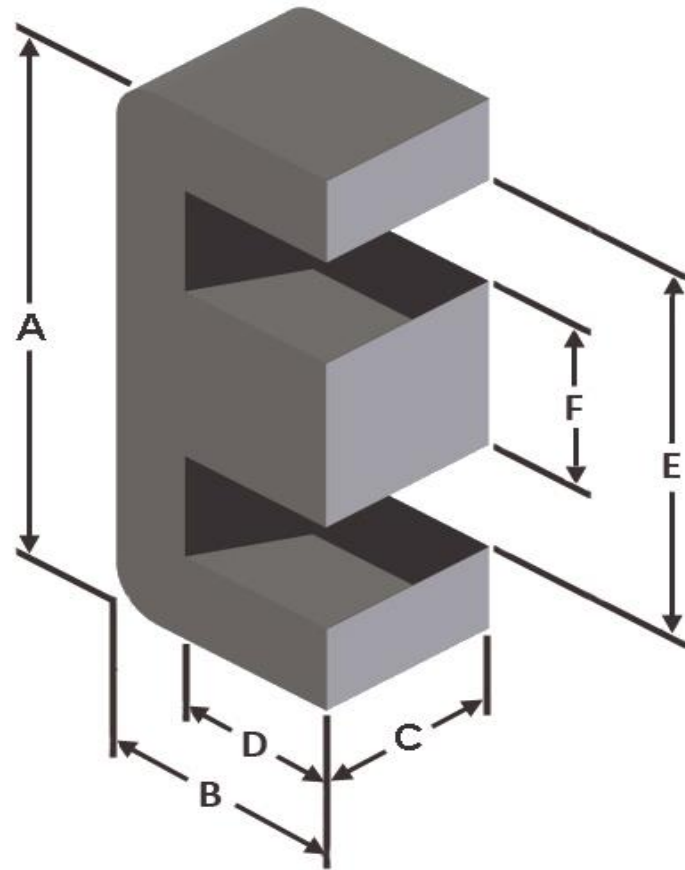




**Part Number:** **E220-34**

Revision 20160713 - Generated 2016-Aug-15



<b>A</b>	56.13 ± 0.38 mm	2.210 ± 0.015 in
<b>B</b>	27.69 ± 0.20 mm	1.090 ± 0.008 in
<b>C</b>	20.83 ± 0.25 mm	0.820 ± 0.010 in
<b>D</b>	19.18 mm (nom.)	0.755 in (nom.)
<b>E</b>	38.61 mm (nom.)	1.520 in (nom.)
<b>F</b>	17.27 ± 0.18 mm	0.680 ± 0.007 in
<b>Mass</b>	(approximate)	150 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	3.60 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	13.2 cm
	V <sub>e</sub> - Eff. Core Volume	47.7 cm <sup>3</sup>
	WA - Min. Eff. Window Area	4.06 cm <sup>2</sup>
	sa - Surface Area	125 cm <sup>2</sup>
	mlt - mean length per turn	11.9 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	33
	A <sub>L</sub> value (nominal)	136 nH/N <sup>2</sup>
	Test Winding	N=100, #16 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	1.6 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=1.10E+09, b=3.30E+07, c=2.50E+06, d=7.70E-14	
	B <sub>pk</sub>	140 G
	frequency	100 kHz
	Core Loss (nominal)	82 mW/cm <sup>3</sup>
Core Loss (maximum)	94 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=3.00E-06, c=1.54, d=0.00	
	H <sub>DC</sub>	100 Oe
	Percent Initial Perm(nom.)	73.2%
Percent Initial Perm(min.)	67.4%	
<b>Coating/Pkg</b>	Coating Type:	None, Gray/Blue Stripes
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	80 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	22	34	52	81	126	194	301	465	720	1,115	1,726
	Rdc(Ω)		5.4 m	13.2 m	32.1 m	79.6 m	197.0 m	482.4 m	1.2	2.9	7.2	17.7	43.7

