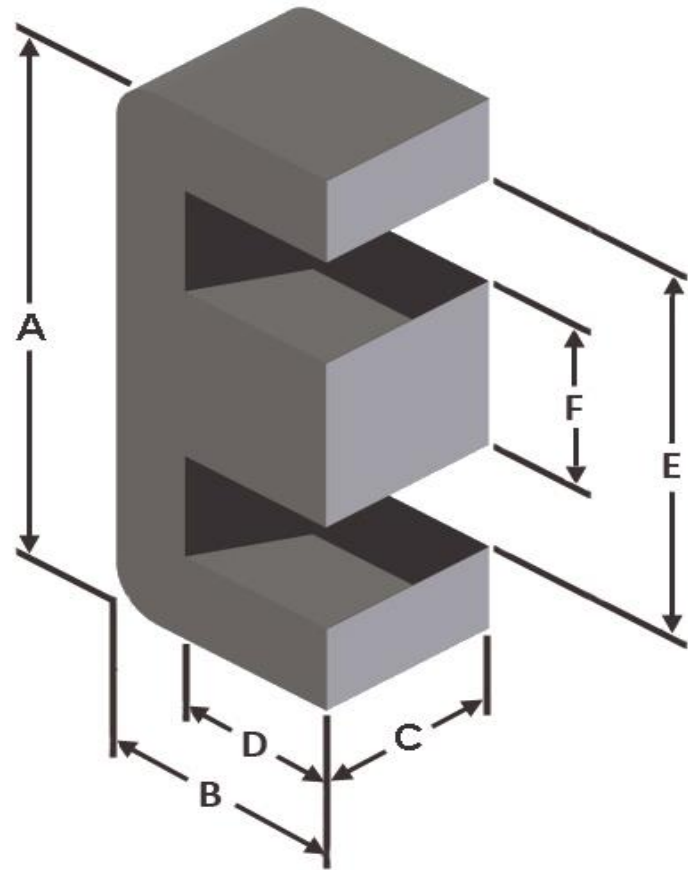




**Part Number:** **E65-66**  
Revision 20160713 - Generated 2016-Aug-15



<b>A</b>	16.38 ± 0.25 mm	0.645 ± 0.010 in
<b>B</b>	8.13 ± 0.13 mm	0.320 ± 0.005 in
<b>C</b>	4.62 ± 0.13 mm	0.182 ± 0.005 in
<b>D</b>	5.98 mm (nom.)	0.236 in (nom.)
<b>E</b>	11.30 mm (nom.)	0.445 in (nom.)
<b>F</b>	4.62 ± 0.13 mm	0.182 ± 0.005 in
<b>Mass</b>	(approximate)	2.7 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.224 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	3.98 cm
	V <sub>e</sub> - Eff. Core Volume	0.861 cm <sup>3</sup>
	WA - Min. Eff. Window Area	0.392 cm <sup>2</sup>
	sa - Surface Area	9.90 cm <sup>2</sup>
	mlt - mean length per turn	3.19 cm
	<b>Inductance</b>	μ <sub>i</sub> (reference)
	A <sub>L</sub> value (nominal)	48 nH/N <sup>2</sup>
	Test Winding	N=100, #26 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.099 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=1.72E+10, b=4.96E+07, c=1.23E+06, d=1.73E-14	
	B <sub>pk</sub>	140 G
	frequency	100 kHz
	Core Loss (nominal)	17 mW/cm <sup>3</sup>
	Core Loss (maximum)	20 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=1.23E-05, c=1.48, d=0.00	
	H <sub>DC</sub>	50 Oe
	Percent Initial Perm(nom.)	71.0%
	Percent Initial Perm(min.)	65.1%
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	4,000 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	AWG	18	20	22	24	26	28	30	32	34	36	38
		mm	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100
	<b>Full Winding</b>	Turns	19	29	45	70	108	167	258	399	618	957	1,481
	Rdc(Ω)	12.7 m	30.7 m	75.8 m	187.6 m	460.4 m	1.1	2.8	6.8	16.9	41.5	102.2	

