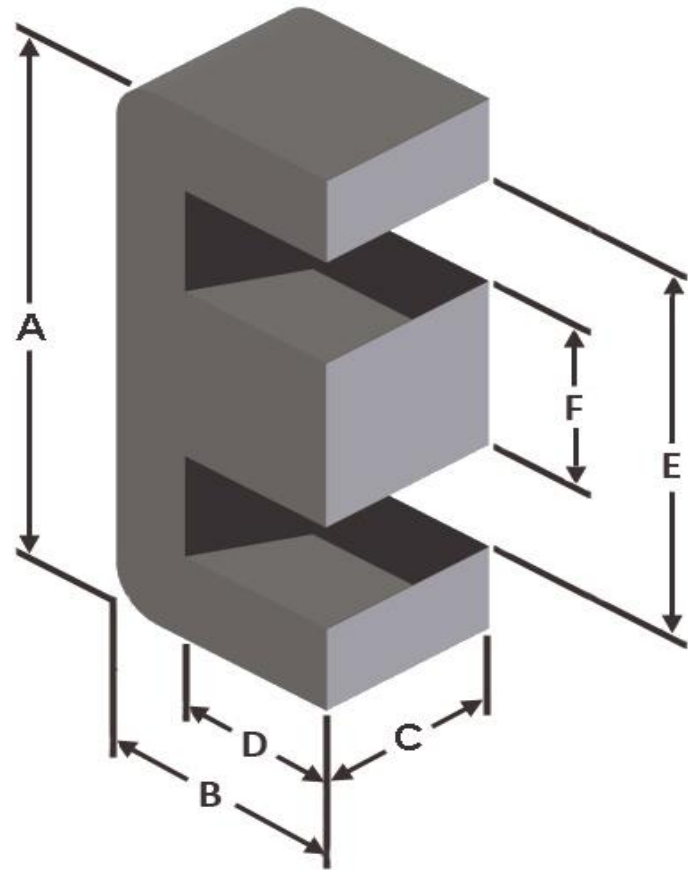




Part Number: **E65-52**

Revision 20160713 - Generated 2016-Aug-15



A	16.38 ± 0.25 mm	0.645 ± 0.010 in
B	8.13 ± 0.13 mm	0.320 ± 0.005 in
C	4.62 ± 0.13 mm	0.182 ± 0.005 in
D	5.98 mm (nom.)	0.236 in (nom.)
E	11.30 mm (nom.)	0.445 in (nom.)
F	4.62 ± 0.13 mm	0.182 ± 0.005 in
Mass	(approximate)	3.0 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.224 cm ²
	L _e - Eff. Mag. Path Length	3.98 cm
	V _e - Eff. Core Volume	0.861 cm ³
	WA - Min. Eff. Window Area	0.392 cm ²
	sa - Surface Area	9.90 cm ²
	mlt - mean length per turn	3.19 cm
	Inductance	μ _i (reference)
	A _L value (nominal)	56 nH/N ²
	Test Winding	N=100, #26 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.099 V
	A _L tolerance	±10%
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14	
	B _{pk}	140 G
	frequency	100 kHz
	Core Loss (nominal)	58 mW/cm ³
	Core Loss (maximum)	67 mW/cm ³
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=1.00E-02, b=4.66E-06, c=1.84, d=0.00	
	H _{DC}	50 Oe
	Percent Initial Perm(nom.)	61.6%
	Percent Initial Perm(min.)	53.4%
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	4,000 Halves/Box

Winding Table	Wire Size	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
	Full Winding	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

