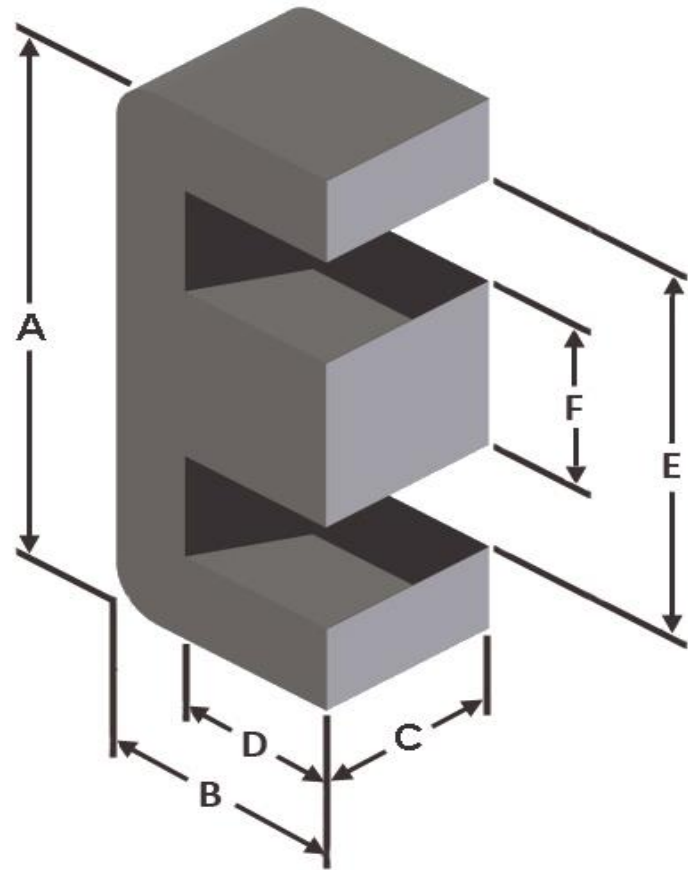




Part Number: **E99-52**
Revision 20160713 - Generated 2016-Aug-15



A	25.40 ± 0.25 mm	1.000 ± 0.010 in
B	12.70 ± 0.13 mm	0.500 ± 0.005 in
C	7.29 ± 0.13 mm	0.287 ± 0.005 in
D	8.76 mm (nom.)	0.345 in (nom.)
E	17.65 mm (nom.)	0.695 in (nom.)
F	7.29 ± 0.13 mm	0.287 ± 0.005 in
Mass	(approximate)	12 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.548 cm ²
	L _e - Eff. Mag. Path Length	6.08 cm
	V _e - Eff. Core Volume	3.38 cm ³
	WA - Min. Eff. Window Area	0.897 cm ²
	sa - Surface Area	24.0 cm ²
	mlt - mean length per turn	4.99 cm
	Inductance	μ _i (reference)
A _L value (nominal)		96 nH/N ²
Test Winding		N=100, #22 AWG
Frequency		10 kHz
Voltage on Agilent 4284A		0.24 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	1,500 Halves/Box

Winding Table	Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Full Winding	Turns	18	28	43	66	103	159	246	382	590	914	1,414
		Rdc(Ω)	7.4 m	18.4 m	44.9 m	109.5 m	271.9 m	667.5 m	1.6	4.1	10.0	24.5	60.4

