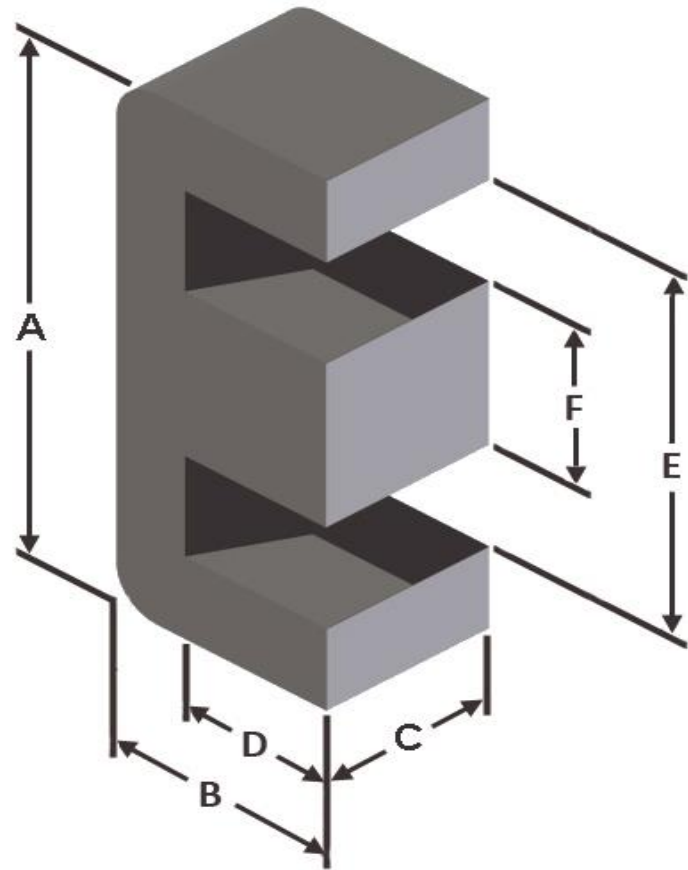




Part Number: **E80-45**

Revision 20160713 - Generated 2016-Aug-15



A	20.19 ± 0.25 mm	0.795 ± 0.010 in
B	9.93 ± 0.13 mm	0.391 ± 0.005 in
C	5.84 ± 0.13 mm	0.230 ± 0.005 in
D	7.11 mm (nom.)	0.280 in (nom.)
E	14.61 mm (nom.)	0.575 in (nom.)
F	5.84 ± 0.13 mm	0.230 ± 0.005 in
Mass	(approximate)	5.9 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.333 cm ²
	L _e - Eff. Mag. Path Length	4.84 cm
	V _e - Eff. Core Volume	1.63 cm ³
	WA - Min. Eff. Window Area	0.614 cm ²
	sa - Surface Area	15.2 cm ²
	mlt - mean length per turn	4.09 cm
Inductance	μ _i (reference)	100
	A _L value (nominal)	0 nH/N ²
	Test Winding	N=100, #24 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	#DIV/0!
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=1.20E+09, b=1.30E+08, c=2.40E+06, d=1.20E-13	
	B _{pk}	140 G
	frequency	100 kHz
	Core Loss (nominal)	61 mW/cm ³
Core Loss (maximum)	71 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=2.44E-05, c=1.61, d=0.00	
	H _{DC}	50 Oe
	Percent Initial Perm(nom.)	43.3%
Percent Initial Perm(min.)	36.3%	
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	3,000 Halves/Box

Winding Table	Wire Size	AWG	16	18	20	22	24	26	28	30	32	34	36
		mm	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125
	Full Winding	Turns	19	29	46	70	109	169	261	404	626	969	1,499
		Rdc(Ω)	10.2 m	24.8 m	62.6 m	151.5 m	375.1 m	925.0 m	2.3	5.6	13.8	33.9	83.5

