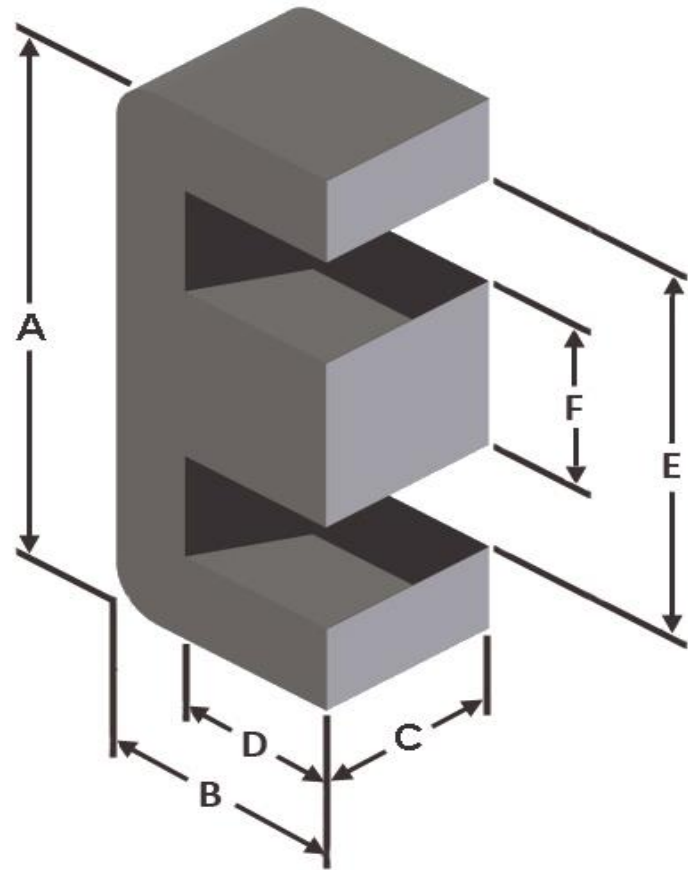




Part Number: **E168-70A**
Revision 20160713 - Generated 2016-Aug-15



A	42.80 ± 0.38 mm	1.685 ± 0.015 in
B	21.08 ± 0.20 mm	0.830 ± 0.008 in
C	19.99 ± 0.25 mm	0.787 ± 0.010 in
D	15.37 mm (nom.)	0.605 in (nom.)
E	30.73 mm (nom.)	1.210 in (nom.)
F	12.07 ± 0.18 mm	0.475 ± 0.007 in
Mass	(approximate)	91 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.41 cm ²
	L _e - Eff. Mag. Path Length	10.4 cm
	V _e - Eff. Core Volume	24.6 cm ³
	WA - Min. Eff. Window Area	2.84 cm ²
	sa - Surface Area	81.5 cm ²
	mlt - mean length per turn	10.1 cm
Inductance	μ _i (reference)	100
	A _L value (nominal)	285 nH/N ²
	Test Winding	N=100, #18 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	1.1 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+10, b=1.30E+09, c=7.90E+06, d=4.20E-14	
	B _{pk}	140 G
	frequency	100 kHz
	Core Loss (nominal)	13 mW/cm ³
Core Loss (maximum)	15 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=1.85E-05, c=1.64, d=0.00	
	H _{DC}	50 Oe
	Percent Initial Perm(nom.)	46.8%
Percent Initial Perm(min.)	39.4%	
Coating/Pkg	Coating Type:	None, Beige/Black Stripes
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	150 Halves/Box

Winding Table	Wire Size	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
	Full Winding	Turns	15	24	37	57	88	136	211	326	505	781	1,209
		Rdc(Ω)	3.1 m	8.0 m	19.5 m	47.8 m	117.4 m	288.6 m	712.2 m	1.7	4.3	10.6	26.1

