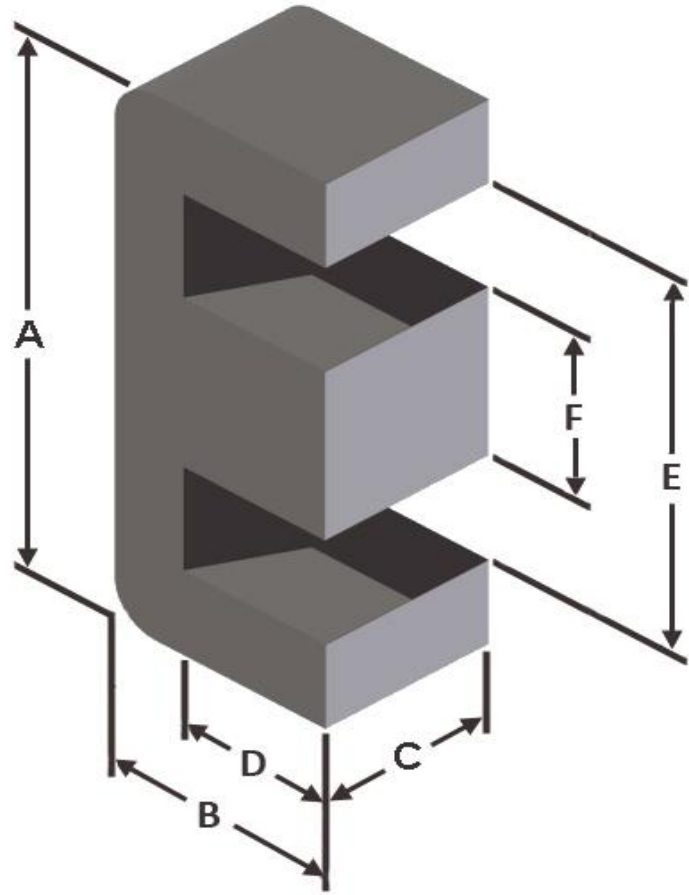




Part Number: E305-2

Revision 20190524 - Generated 2019-May-30



A	77.50 ± 0.76 mm	3.051 ± 0.030 in											
B	38.76 ± 0.38 mm	1.526 ± 0.015 in											
C	23.70 ± 0.38 mm	0.933 ± 0.015 in											
D	26.90 mm (nom.)	1.059 in (nom.)											
E	53.80 mm (nom.)	2.118 in (nom.)											
F	23.70 ± 0.38 mm	0.933 ± 0.015 in											
Mass	(approximate)	260 grams/half											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	5.62 cm ²											
	L _e - Eff. Mag. Path Length	18.5 cm											
	V _e - Eff. Core Volume	104 cm ³											
	WA - Min. Eff. Window Area	7.99 cm ²											
	sa - Surface Area	226 cm ²											
Inductance	mlt - mean length per turn	15.5 cm											
	μ _i (reference)	10											
	A _L value (nominal)	75 nH/N ²											
	Test Winding	N=100, #16 AWG											
	Frequency	10 kHz											
Core Loss	Voltage on Agilent 4284A	2.5 V											
	A _L tolerance	±5%											
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=4.00E+09, b=3.00E+08, c=2.70E+06, d=9.60E-16												
	B _{pk}	140 G											
DC Saturation	frequency	100 kHz											
	Core Loss (nominal)	18 mW/cm ³											
	Core Loss (maximum)	20 mW/cm ³											
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=1.83E-07, c=1.46, d=0.00												
Coating/Pkg	H _{DC}	200 Oe											
	Percent Initial Perm(nom.)	95.9%											
	Percent Initial Perm(min.)	94.8%											
	Coating Type:	None, Red/Clear Stripes											
	Voltage Breakdown (min.)	N/A											
Winding Table	Limit	N/A											
	Package Quantity	48 Halves/Box											
	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	43	67	103	160	247	383	592	917	1,419	2,197	3,400
	Rdc(Ω)	13.7 m	34.0 m	83.0 m	205.1 m	503.6 m	1.2	3.1	7.5	18.5	45.6	112.2	

