



Part Number: **E75-8**

Revision 20190524 - Generated 2019-May-30



A	19.05 ± 0.25 mm	0.750 ± 0.010 in
B	8.08 ± 0.13 mm	0.318 ± 0.005 in
C	4.75 ± 0.13 mm	0.187 ± 0.005 in
D	5.78 mm (nom.)	0.228 in (nom.)
E	14.27 mm (nom.)	0.562 in (nom.)
F	4.75 ± 0.13 mm	0.187 ± 0.005 in
Mass	(approximate)	3.0 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.226 cm ²
	L _e - Eff. Mag. Path Length	4.20 cm
	V _e - Eff. Core Volume	0.936 cm ³
	WA - Min. Eff. Window Area	0.543 cm ²
	sa - Surface Area	12.0 cm ²
Inductance	mlt - mean length per turn	3.80 cm
	μ _i (reference)	35
	A _L value (nominal)	33.5 nH/N ²
	Test Winding	N=100, #26 AWG
	Frequency	10 kHz
Core Loss	Voltage on Agilent 4284A	0.10 V
	A _L tolerance	±10%
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.90E+09, b=2.00E+08, c=9.00E+05, d=5.00E-15	
	B _{pk}	140 G
frequency	100 kHz	
Core Loss (nominal)	32 mW/cm ³	
Core Loss (maximum)	36 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=3.49E-06, c=1.43, d=0.00	
	H _{DC}	200 Oe
	Percent Initial Perm(nom.)	60.1%
Percent Initial Perm(min.)	53.7%	
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	4,000 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	17	26	40	62	96	149	231	357	553	856	1,325
		Rdc(Ω)	8.5 m	20.7 m	50.6 m	124.8 m	307.4 m	758.8 m	1.9	4.6	11.3	27.9	68.7

