



Part Number: **E65-8**

Revision 20190524 - Generated 2019-May-30



A	16.38 ± 0.25 mm	0.645 ± 0.010 in											
B	8.13 ± 0.13 mm	0.320 ± 0.005 in											
C	4.62 ± 0.13 mm	0.182 ± 0.005 in											
D	5.98 mm (nom.)	0.236 in (nom.)											
E	11.30 mm (nom.)	0.445 in (nom.)											
F	4.62 ± 0.13 mm	0.182 ± 0.005 in											
Mass	(approximate)	2.8 grams/half											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.224 cm ²											
	L _e - Eff. Mag. Path Length	3.98 cm											
	V _e - Eff. Core Volume	0.861 cm ³											
	WA - Min. Eff. Window Area	0.392 cm ²											
	sa - Surface Area	9.90 cm ²											
Inductance	mlt - mean length per turn	3.19 cm											
	μ _i (reference)	35											
	A _L value (nominal)	30.5 nH/N ²											
	Test Winding	N=100, #26 AWG											
	Frequency	10 kHz											
Core Loss	Voltage on Agilent 4284A	0.099 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											
DC Saturation	frequency	100 kHz											
	Core Loss (nominal)	32 mW/cm ³											
	Core Loss (maximum)	36 mW/cm ³											
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=3.49E-06, c=1.43, d=0.00												
Coating/Pkg	H _{DC}	200 Oe											
	Percent Initial Perm(nom.)	60.1%											
	Percent Initial Perm(min.)	53.7%											
	Coating Type:	None											
	Voltage Breakdown (min.)	N/A											
Winding Table	Limit	N/A											
	Package Quantity	4,000 Halves/Box											
	Wire Size	AWG	18	20	22	24	26	28	30	32	34	36	38
		mm	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100
	Full Winding	Turns	19	29	45	70	108	167	258	399	618	957	1,481
Rdc(Ω)		12.7 m	30.7 m	75.8 m	187.6 m	460.4 m	1.1	2.8	6.8	16.9	41.5	102.2	

