



Part Number: **E450-26**

Revision 20190524 - Generated 2019-May-30



A	114.30 ± 0.76 mm	4.500 ± 0.030 in											
B	46.18 ± 0.38 mm	1.818 ± 0.015 in											
C	34.93 ± 0.38 mm	1.375 ± 0.015 in											
D	28.58 mm (nom.)	1.125 in (nom.)											
E	79.25 mm (nom.)	3.120 in (nom.)											
F	34.93 ± 0.51 mm	1.375 ± 0.020 in											
Mass	(approximate)	980 grams/half											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	12.2 cm ²											
	L _e - Eff. Mag. Path Length	22.9 cm											
	V _e - Eff. Core Volume	280 cm ³											
	WA - Min. Eff. Window Area	12.5 cm ²											
	sa - Surface Area	416 cm ²											
Inductance	mlt - mean length per turn	22.8 cm											
	μ _i (reference)	75											
	A _L value (nominal)	540 nH/N ²											
	Test Winding	N=100, #14 AWG											
	Frequency	1 kHz											
Core Loss	Voltage on Agilent 4284A	0.54 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=1.00E+09, b=1.10E+08, c=1.90E+06, d=1.90E-13												
	B _{pk}	140 G											
DC Saturation	frequency	100 kHz											
	Core Loss (nominal)	83 mW/cm ³											
	Core Loss (maximum)	95 mW/cm ³											
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.00E-02, b=9.70E-06, c=1.72, d=0.00												
Coating/Pkg	H _{DC}	50 Oe											
	Percent Initial Perm(nom.)	55.2%											
	Percent Initial Perm(min.)	47.4%											
	Coating Type:	None, Yellow/White Stripes											
	Voltage Breakdown (min.)	N/A											
Winding Table	Limit	N/A											
	Package Quantity	18 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	68	104	162	250	387	600	928	1,436	2,223	3,440	5,325
Rdc(Ω)		31.9 m	77.7 m	192.4 m	472.2 m	1.2	2.9	7.1	17.4	42.7	105.1	258.8	

