



Part Number: **E220-18**

Revision 20190524 - Generated 2019-May-30



A	56.13 ± 0.38 mm	2.210 ± 0.015 in	
B	27.69 ± 0.20 mm	1.090 ± 0.008 in	
C	20.83 ± 0.25 mm	0.820 ± 0.010 in	
D	19.18 mm (nom.)	0.755 in (nom.)	
E	38.61 mm (nom.)	1.520 in (nom.)	
F	17.27 ± 0.18 mm	0.680 ± 0.007 in	
Mass	(approximate)	160 grams/half	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	3.60 cm ²	
	L _e - Eff. Mag. Path Length	13.2 cm	
	V _e - Eff. Core Volume	47.7 cm ³	
	WA - Min. Eff. Window Area	4.06 cm ²	
	sa - Surface Area	125 cm ²	
Inductance	mlt - mean length per turn	11.9 cm	
	μ _i (reference)	55	
	A _L value (nominal)	196 nH/N ²	
	Test Winding	N=100, #16 AWG	
	Frequency	10 kHz	
Core Loss	Voltage on Agilent 4284A	1.6 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=8.00E+08, b=1.70E+08, c=9.00E+05, d=3.10E-14		
	B _{pk}	140 G	
DC Saturation	frequency	100 kHz	
	Core Loss (nominal)	46 mW/cm ³	
	Core Loss (maximum)	53 mW/cm ³	
	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.00E-02, b=4.72E-06, c=1.65, d=0.00		
Coating/Pkg	H _{DC}	100 Oe	
	Percent Initial Perm(nom.)	51.4%	
	Percent Initial Perm(min.)	43.9%	
	Coating Type:	None, Green/Red Stripes	
	Voltage Breakdown (min.)	N/A	
Winding Table	Limit	N/A	
	Package Quantity	80 Halves/Box	
	Wire Size	AWG	8
		mm	3.150
	Full Winding	Turns	22
	Rdc(Ω)	5.4 m	
		10	
		12	
		14	
		16	
		18	
		20	
		22	
		24	
		26	
		28	
		34	
		52	
		81	
		126	
		194	
		301	
		465	
		720	
		1,115	
		1,726	
		32.1 m	
		79.6 m	
		197.0 m	
		482.4 m	
		1.2	
		2.9	
		7.2	
		17.7	
		43.7	

