



Part Number: EMS-0653327-090

Revision 20160816 - Generated 2016-Aug-16



A	65.1 ± 0.97 mm	2.563 ± 0.038 in
B	32.5 ± 0.48 mm	1.280 ± 0.019 in
C	27 ± 0.53 mm	1.063 ± 0.021 in
D	22.2 mm (min.)	0.874 in (min.)
E	44.2 mm (min.)	1.740 in (min.)
F	19.7 ± 0.41 mm	0.776 ± 0.016 in
Mass	(approximate)	230 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	5.40 cm ²
	L _e - Eff. Mag. Path Length	14.7 cm
	V _e - Eff. Core Volume	79.4 cm ³
	WA - Min. Eff. Window Area	5.35 cm ²
	sa - Surface Area	177 cm ²
	mlt - mean length per turn	14.2 cm
Inductance	μ _i (reference)	90
	A _L value (nominal)	462 nH/N ²
	Test Winding	N=100, #16 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	2.4 V
	A _L tolerance	±8%
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.46E+09, b=8.28E+08, c=4.62E+06, d=1.09E-14	
	B _{pk}	1000 G
	frequency	50 kHz
	Core Loss (nominal)	345 mW/cm ³
	Core Loss (maximum)	396 mW/cm ³
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=0.01, b=1.26E-05, c=1.70, d=0.00	
	H _{DC}	50 Oe
	Percent Initial Perm(nom.)	50.6%
	Percent Initial Perm(min.)	42.9%
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	45 Halves/Box

Winding Table	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	29	45	69	107	165	256	396	614	950	1,470	2,275
	Rdc(Ω)		8.5 m	21.0 m	51.1 m	126.0 m	309.1 m	762.6 m	1.9	4.6	11.4	28.0	69.0

