



Part Number: **HF-092160-2**
 Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core) (max. - after coating)	23.57 mm 24.28 mm	0.928 in 0.956 in
ID	(nom. - bare core) (min. - after coating)	14.40 mm 13.77 mm	0.567 in 0.542 in
Ht	(nom. - bare core) (max. - after coating)	8.89 mm 9.70 mm	0.350 in 0.382 in
Mass	(approximate)	18 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.388 cm ²	
	L _e - Eff. Mag. Path Length	5.88 cm	
	V _e - Eff. Core Volume	2.28 cm ³	
	WA - Min. Eff. Window Area	1.49 cm ²	
	sa - Surface Area	21.8 cm ²	
	mlt - mean length per turn	3.68 cm	
Inductance	μ _i (reference)	160	
	A _L value (nominal)	135 nH/N ²	
	Test Winding	N=80, #26 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.14 V	
	AL 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=4.299E+10, b=6.671E+08, c=3.114E+06, d=8.003E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	509 mW/cm ³	
Core Loss (maximum)	585 mW/cm ³		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=1.434E-06, c=2.169, d=0.000		
	H _{DC}	40 Oe	
	Percent Initial Perm.(nom.)	70.0%	
Percent Initial Perm.(min.)	61.1%		
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	968 Pcs/Box	

Winding Table	Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	12	15	20	25	32	40	51	64	80	101	126
		Rdc(Ω)	1.4 m	2.9 m	6.1 m	12.1 m	24.6 m	49.0 m	99.3 m	198.2 m	394.0 m	791.0 m	1.6
Full Winding	Turns	12	19	29	45	69	107	166	257	397	615	952	
	Rdc(Ω)	1.4 m	3.6 m	8.8 m	21.8 m	53.1 m	131.0 m	323.2 m	795.8 m	2.0	4.8	11.9	

