



Part Number: **HF-065160-2**

Revision 2021-Dec-01 - Generated 2021-Dec-01



(If coated, Max./Min. includes coating)

OD	(nom. - bare core) (max.)	16.64 mm 17.40 mm	0.655 in 0.685 in
ID	(nom. - bare core) (min.)	10.16 mm 9.53 mm	0.400 in 0.375 in
HT	(nom. - bare core) (max.)	6.35 mm 7.11 mm	0.250 in 0.280 in
Mass	(approximate)	6.1 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.192 cm ²	
	L _e - Eff. Mag. Path Length	4.11 cm	
	V _e - Eff. Core Volume	0.789 cm ³	
	WA - Min. Eff. Window Area	0.713 cm ²	
	sa - Surface Area	11.2 cm ²	
Inductance	μ _i (reference)	160	
	A _L value (nominal)	92 nH/N ²	
Core Loss	Test Winding	N=70, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.060 V	
	AL tolerance	±8%	
	Core Loss(mW/cm ³):	$\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}} + d \cdot Bpk^2 \cdot f^2$	
DC Saturation	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	
Coating/Pkg	Percent Initial Perm(nom.)	70.0%	
	Percent Initial Perm(min.)	61.1%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
Winding Table	Limit	0.1 mA, 5 s	
	Package Quantity	2,880 Pcs/Box	

Winding Table	Wire Size	AWG	12	14	16	18	20	22	24	26	28	30	32
	Single Layer	Turns	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200
		Rdc(Ω)	1.4 m	2.9 m	6.0 m	11.8 m	24.1 m	48.3 m	99.4 m	197.7 m	394.4 m	781.8 m	1.6
	Full Winding	Turns	9	14	21	33	51	79	123	190	295	456	706
	Rdc(Ω)	1.3 m	3.1 m	7.4 m	18.5 m	45.6 m	112.3 m	278.0 m	682.9 m	1.7	4.1	10.2	

