



Part Number: **FS-200014-2**

Revision 20190529 - Generated 2019-May-29



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

OD	(nom. - bare core) (max.)	50.80 mm 51.69 mm	2.000 in 2.035 in										
ID	(nom. - bare core) (min.)	31.75 mm 30.94 mm	1.250 in 1.218 in										
HT	(nom. - bare core) (max.)	13.46 mm 14.35 mm	0.530 in 0.565 in										
Mass	(approximate)	88 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.25 cm ²											
	L _e - Eff. Mag. Path Length	12.733 cm											
	V _e - Eff. Core Volume	15.9 cm ³											
	WA - Min. Eff. Window Area	7.52 cm ²											
	sa - Surface Area	88.2 cm ²											
Inductance	μ _i (reference)	14											
	A _L value (nominal)	17 nH/N ²											
Core Loss	Test Winding	N=70, #18 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.39 V											
	AL tolerance	±8%											
	Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$												
DC Saturation	where H expressed in oersteds, and: a=1.000E-02, b=2.600E-07, c=1.557, d=0.000												
	H _{DC}	200 Oe											
	Percent Initial Perm(nom.)	90.9%											
	Percent Initial Perm(min.)	88.3%											
	Coating/Pkg	Coating Type:	Blue Epoxy										
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
	Single Layer	Turns	23	30	38	48	60	75	94	118	148	184	230
		Rdc(Ω)	3.1 m	6.4 m	12.8 m	25.8 m	51.2 m	101.9 m	203.0 m	405.4 m	808.6 m	1.6	3.2
Full Winding	Turns	39	61	94	146	226	350	541	837	1,296	2,006	3,104	
	Rdc(Ω)	5.2 m	12.9 m	31.7 m	78.4 m	193.0 m	475.3 m	1.2	2.9	7.1	17.4	42.9	

