



Part Number: FS-401026-2

Revision 20190529 - Generated 2019-May-29



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

OD	(nom. - bare core) (max.)	101.60 mm 102.87 mm	4.000 in 4.050 in
ID	(nom. - bare core) (min.)	57.15 mm 55.75 mm	2.250 in 2.195 in
HT	(nom. - bare core) (max.)	13.59 mm 14.86 mm	0.535 in 0.585 in
Mass	(approximate)	450 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.97 cm ²	
	L _e - Eff. Mag. Path Length	24.271 cm	
	V _e - Eff. Core Volume	72.1 cm ³	
	WA - Min. Eff. Window Area	24.4 cm ²	
	sa - Surface Area	293 cm ²	
	mlt - mean length per turn	10.5 cm	
Inductance	μ _i (reference)	26	
	A _L value (nominal)	40 nH/N ²	
	Test Winding	N=140, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	1.8 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=1.000E+06, b=1.812E+08, c=3.251E+06, d=6.158E-14		
	B _{pk}	300 G	
	frequency	100 kHz	
	Core Loss (nominal)	214 mW/cm ³	
Core Loss (maximum)	246 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=9.210E-08, c=1.912, d=0.000		
	H _{DC}	200 Oe	
	Percent Initial Perm(nom.)	81.2%	
	Percent Initial Perm(min.)	75.3%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	16 Pcs/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
	Single Layer	Turns	44	56	70	88	110	138	172	215	268	335	417
		Rdc(Ω)	9.5 m	19.2 m	38.1 m	76.2 m	151.5 m	302.3 m	599.2 m	1.2	2.4	4.7	9.3
Full Winding	Turns	128	198	306	474	733	1,135	1,756	2,719	4,208	6,512	10,079	
	Rdc(Ω)	27.6 m	67.8 m	166.6 m	410.5 m	1.0	2.5	6.1	15.1	37.1	91.3	224.6	

