



Part Number: **FS-601040-2**

Revision 20190529 - Generated 2019-May-29



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

OD	(nom. - bare core) (max.)	152.40 mm 153.90 mm	6.000 in 6.059 in									
ID	(nom. - bare core) (min.)	81.28 mm 79.65 mm	3.200 in 3.136 in									
HT	(nom. - bare core) (max.)	25.40 mm 26.80 mm	1.000 in 1.055 in									
Mass	(approximate)	2,090 grams										
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	8.81 cm ²										
	L _e - Eff. Mag. Path Length	35.97 cm										
	V _e - Eff. Core Volume	317 cm ³										
	WA - Min. Eff. Window Area	49.8 cm ²										
	sa - Surface Area	674 cm ²										
Inductance	μ _i (reference)	40										
	A _L value (nominal)	127 nH/N ²										
Core Loss	Test Winding	N=200, #18 AWG										
	Frequency	10 kHz										
	Voltage on Agilent 4284A	7.8 V										
	AL tolerance	±8%										
	Core Loss(mW/cm ³)=	$\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$										
DC Saturation	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=3.071E+08, c=3.524E+06, d=5.634E-14											
	B _{pk}	1000 G										
	frequency	50 kHz										
	Core Loss (nominal)	780 mW/cm ³										
Coating/Pkg	Core Loss (maximum)	897 mW/cm ³										
	%μ _i =	$\frac{1}{a + b \cdot H^c} + d$										
	where H expressed in oersteds, and: a=1.000E-02, b=6.314E-08, c=2.151, d=0.000											
Winding Table	H _{DC}	200 Oe										
	Percent Initial Perm(nom.)	64.0%										
	Percent Initial Perm(min.)	54.5%										
	Coating Type:	Blue Epoxy										
Wire Size	Voltage Breakdown (min.)	1000 Vrms										
	Limit	0.1 mA, 5 s										
Single Layer	Package Quantity	4 Pcs/Box										
	AWG	8	10	12	14	16	18	20	22	24	26	28
Full Winding	mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Turns	65	81	102	127	159	198	247	309	385	479	597
Rdc(Ω)	Rdc(Ω)	22.4 m	44.4 m	88.9 m	176.1 m	350.7 m	694.5 m	1.4	2.7	5.4	10.7	21.3
	Turns	261	404	625	967	1,497	2,316	3,585	5,549	8,589	13,293	20,574
Rdc(Ω)	Rdc(Ω)	90.0 m	221.5 m	545.0 m	1.3	3.3	8.1	20.0	49.2	121.2	298.3	734.3

