



Part Number: **FS-601075-2**

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)	2,190 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)	75	
	A _L value (nominal)	238 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=1.883E+08, b=5.098E+08, c=1.162E+06, d=5.024E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	772 mW/cm ³	
	Core Loss (maximum)	887 mW/cm ³	
DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and: a=1.000E-02, b=3.486E-06, c=1.682, d=0.000		
	H _{DC}	80 Oe	
	Percent Initial Perm(nom.)	64.4%	
Coating/Pkg	Percent Initial Perm(min.)	57.1%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
Winding Table	Package Quantity	4 Pcs/Box	
	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
Single Layer	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
Full Winding	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
Full Winding	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

