



Part Number: **FS-141060-2**

Revision 20190529 - Generated 2019-May-29



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

OD	(nom. - bare core) (max.)	35.81 mm 36.63 mm	1.410 in 1.442 in
ID	(nom. - bare core) (min.)	22.35 mm 21.54 mm	0.880 in 0.848 in
HT	(nom. - bare core) (max.)	10.46 mm 11.28 mm	0.412 in 0.444 in
Mass	(approximate)	41 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.678 cm ²	
	L _e - Eff. Mag. Path Length	8.98 cm	
	V _e - Eff. Core Volume	6.09 cm ³	
	WA - Min. Eff. Window Area	3.64 cm ²	
	sa - Surface Area	45.6 cm ²	
Inductance	μ _i (reference)	60	
	A _L value (nominal)	56 nH/N ²	
Core Loss	Test Winding	N=80, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.24 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=3.903E+08, c=3.785E+06, d=5.229E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	676 mW/cm ³	
	Core Loss (maximum)	778 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=1.949E-07, c=2.099, d=0.000		
	H _{DC}	150 Oe	
	Percent Initial Perm(nom.)	58.1%	
Coating/Pkg	Percent Initial Perm(min.)	48.6%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
Winding Table	Package Quantity	343 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	15	20	25	32	41	52	65	81	102	128	159
		Rdc(Ω)	1.5 m	3.2 m	6.3 m	12.8 m	26.1 m	52.7 m	104.7 m	207.5 m	415.6 m	829.5 m	1.6
Full Winding	Turns	19	30	46	71	109	169	262	406	628	972	1,505	
	Rdc(Ω)	1.9 m	4.8 m	11.6 m	28.4 m	69.4 m	171.2 m	422.1 m	1.0	2.6	6.3	15.5	

