



**Part Number:** **FS-292014-2**

Revision 20190529 - Generated 2019-May-29



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

<b>OD</b>	(nom. - bare core) (max.)	74.10 mm 75.20 mm	2.917 in 2.961 in
<b>ID</b>	(nom. - bare core) (min.)	45.30 mm 44.10 mm	1.783 in 1.736 in
<b>HT</b>	(nom. - bare core) (max.)	35.00 mm 36.20 mm	1.378 in 1.425 in
<b>Mass</b>	(approximate)	500 grams	
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	4.94 cm <sup>2</sup>	
	L <sub>e</sub> - Eff. Mag. Path Length	18.4 cm	
	V <sub>e</sub> - Eff. Core Volume	90.9 cm <sup>3</sup>	
	WA - Min. Eff. Window Area	15.3 cm <sup>2</sup>	
	sa - Surface Area	228 cm <sup>2</sup>	
<b>Inductance</b>	μ <sub>i</sub> (reference)	14	
	A <sub>L</sub> value (nominal)	48 nH/N <sup>2</sup>	
<b>Core Loss</b>	Test Winding	N=100, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	2.2 V	
	AL tolerance	±8%	
	Core Loss(mW/cm <sup>3</sup> )= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$		
<b>DC Saturation</b>	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=6.131E+07, c=2.047E+06, d=6.095E-14		
	B <sub>pk</sub>	300 G	
	frequency	100 kHz	
	Core Loss (nominal)	399 mW/cm <sup>3</sup>	
<b>Coating/Pkg</b>	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
<b>Winding Table</b>	Package Quantity	18 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	Turns	35	44	55	69	87	109	136	170	212	264	329
		Rdc(Ω)	9.0 m	18.1 m	35.9 m	71.7 m	143.7 m	286.3 m	568.1 m	1.1	2.2	4.4	8.8
<b>Full Winding</b>	Turns	80	124	192	296	459	710	1,099	1,701	2,633	4,075	6,307	
	Rdc(Ω)	20.7 m	50.9 m	125.4 m	307.4 m	758.0 m	1.9	4.6	11.3	27.8	68.5	168.5	

