



Part Number: **FS-026090-8**
 Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core)	6.60 mm	0.260 in
	(max. - after coating)	7.32 mm	0.288 in
ID	(nom. - bare core)	2.67 mm	0.105 in
	(min. - after coating)	2.21 mm	0.087 in
Ht	(nom. - bare core)	4.78 mm	0.188 in
	(max. - after coating)	5.54 mm	0.218 in
Mass	(approximate)	0.87 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0920 cm ²	
	L _e - Eff. Mag. Path Length	1.36 cm	
	V _e - Eff. Core Volume	0.125 cm ³	
	WA - Min. Eff. Window Area	0.0384 cm ²	
	sa - Surface Area	2.44 cm ²	
	mlt - mean length per turn	1.73 cm	
Inductance	μ _i (reference)	90	
	A _L value (nominal)	74 nH/N ²	
	Test Winding	N=35, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.014 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=5.648E+08, c=7.440E+04, d=6.942E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	869 mW/cm ³	
Core Loss (maximum)	999 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=8.566E-06, c=1.584, d=0.000		
	H _{DC}	50 Oe	
	Percent Initial Perm.(nom.)	70.4%	
Percent Initial Perm.(min.)	64.0%		
Coating/Pkg	Coating Type:	Parylene N	
	Voltage Breakdown (min.)	500 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	14,400 Pcs/Box	

Winding Table	Wire Size	AWG	26	28	30	32	34	36	38	40	42	44	-
		mm	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-
	Single Layer	Turns	11	14	18	23	29	37	47	59	74	93	-
		Rdc(Ω)	25.5 m	51.5 m	105.4 m	214.2 m	429.4 m	871.4 m	1.8	3.5	7.0	14.0	-
Full Winding	Turns	10	16	25	38	59	91	141	218	337	522	-	
	Rdc(Ω)	23.1 m	58.9 m	146.4 m	353.8 m	873.7 m	2.1	5.3	13.0	31.9	78.6	-	

