



Part Number: **SH-157060-2**

Revision 20190403 - Generated 2019-Apr-04



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

OD	(nom. - bare core) (max.)	39.88 mm 40.69 mm	1.570 in 1.602 in
ID	(nom. - bare core) (min.)	24.13 mm 23.32 mm	0.950 in 0.918 in
HT	(nom. - bare core) (max.)	14.48 mm 15.37 mm	0.570 in 0.605 in
Mass	(approximate)	59 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.07 cm ²	
	L _e - Eff. Mag. Path Length	9.85 cm	
	V _e - Eff. Core Volume	10.5 cm ³	
	WA - Min. Eff. Window Area	4.27 cm ²	
	sa - Surface Area	60.2 cm ²	
	mlt - mean length per turn	5.98 cm	
Inductance	μ _i (reference)	60	
	A _L value (nominal)	81 nH/N ²	
	Test Winding	N=70, #20 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.33 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=8.801E+08, c=5.421E+06, d=1.033E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	317 mW/cm ³	
	Core Loss (maximum)	365 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=7.724E-06, c=1.612, d=0.000		
	H _{DC}	100 Oe	
	Percent Initial Perm(nom.)	43.6%	
	Percent Initial Perm(min.)	36.5%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	216 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	17	22	28	35	45	56	70	88	111	138	173
		Rdc(Ω)	2.1 m	4.3 m	8.7 m	17.3 m	35.4 m	70.0 m	139.2 m	278.3 m	558.3 m	1.1	2.2
Full Winding	Turns	22	35	54	83	128	199	307	476	736	1,139	1,764	
	Rdc(Ω)	2.7 m	6.8 m	16.8 m	41.0 m	100.6 m	248.8 m	610.5 m	1.5	3.7	9.1	22.4	

