



Part Number: **SH-130060-2**

Revision 20190403 - Generated 2019-Apr-04



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

OD	(nom. - bare core) (max.)	33.02 mm 33.83 mm	1.300 in 1.332 in
ID	(nom. - bare core) (min.)	19.94 mm 19.30 mm	0.785 in 0.760 in
HT	(nom. - bare core) (max.)	10.67 mm 11.61 mm	0.420 in 0.457 in
Mass	(approximate)	31 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.672 cm ²	
	L _e - Eff. Mag. Path Length	8.15 cm	
	V _e - Eff. Core Volume	5.48 cm ³	
	WA - Min. Eff. Window Area	2.93 cm ²	
	sa - Surface Area	40.1 cm ²	
	mlt - mean length per turn	4.74 cm	
Inductance	μ _i (reference)	60	
	A _L value (nominal)	61 nH/N ²	
	Test Winding	N=70, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.21 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	512 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	14	18	22	29	36	46	58	73	91	114	142
		Rdc(Ω)	1.4 m	2.8 m	5.4 m	11.4 m	22.4 m	45.6 m	91.5 m	183.1 m	363.0 m	723.2 m	1.4
Full Winding	Turns	15	24	37	57	88	136	211	326	504	780	1,208	
	Rdc(Ω)	1.5 m	3.7 m	9.1 m	22.3 m	54.9 m	134.9 m	332.8 m	817.6 m	2.0	4.9	12.2	

