



Part Number: **OP-131060-2**
 Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core) (max. - after coating)	33.02 mm 33.83 mm	1.300 in 1.332 in
ID	(nom. - bare core) (min. - after coating)	19.94 mm 19.30 mm	0.785 in 0.760 in
Ht	(nom. - bare core) (max. - after coating)	8.76 mm 9.70 mm	0.345 in 0.382 in
Mass	(approximate)	30 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section L _e - Eff. Mag. Path Length V _e - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	0.551 cm ² 8.15 cm 4.49 cm ³ 2.93 cm ² 37.8 cm ² 4.36 cm	
Inductance	μ _i (reference) A _L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	60 51 nH/N ² N=70, #22 AWG 10 kHz 0.17 V ±8%	
Core Loss	Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+06, b=1.329E+09, c=3.531E+06, d=5.000E-14 B _{pk} frequency Core Loss (nominal) Core Loss (maximum)		1000 G 50 kHz 367 mW/cm ³ 422 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=1.740E-06, c=1.748, d=0.000 H _{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)		100 Oe 64.7% 57.1%
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 448 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)	1.3 m	2.6 m	5.0 m	10.5 m	20.6 m	41.9 m	84.1 m	168.3 m	333.7 m	664.9 m	1.3
Full Winding	Turns	15	24	37	57	88	136	211	326	504	780	1,208	
	Rdc(Ω)	1.3 m	3.4 m	8.4 m	20.5 m	50.4 m	124.0 m	305.9 m	751.8 m	1.8	4.5	11.2	

