



Part Number: MP-068014-2H127
 Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core) (max. - after coating)	17.27 mm 18.03 mm	0.680 in 0.710 in
ID	(nom. - bare core) (min. - after coating)	9.65 mm 9.02 mm	0.380 in 0.355 in
Ht	(nom. - bare core) (max. - after coating)	12.70 mm 13.46 mm	0.500 in 0.530 in
Mass	(approximate)	12 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	0.464 cm ² 4.14 cm 1.92 cm ³ 0.639 cm ² 15.8 cm ² 4.04 cm	
Inductance	μ _i (reference) A _L value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	14 20 nH/N ² N=70, #28 AWG 10 kHz 0.14 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=1.914E+09, b=4.349E+08, c=4.331E+06, d=8.850E-14 B _{pk} frequency Core Loss (nominal) Core Loss (maximum)	 300 G 100 kHz 157 mW/cm ³ 180 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=5.683E-07, c=1.662, d=0.000 H _{DC} Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	 200 Oe 72.5% 66.0%	
Coating/Pkg	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 900 Pcs/Box	

Winding Table	Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34
		mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160
	Single Layer	Turns	12	15	20	26	32	41	52	65	82	102	128
		Rdc(Ω)	4.0 m	8.0 m	16.9 m	35.0 m	68.5 m	139.5 m	281.4 m	559.5 m	1.1	2.2	4.4
Full Winding	Turns	12	19	30	46	71	110	170	264	408	632	978	
	Rdc(Ω)	4.0 m	10.1 m	25.4 m	61.9 m	151.9 m	374.3 m	920.1 m	2.3	5.6	13.8	33.9	

