



Part Number: **MP-018060-8**
 Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core) (max. - after coating)	4.65 mm 5.21 mm	0.183 in 0.205 in
ID	(nom. - bare core) (min. - after coating)	2.36 mm 1.93 mm	0.093 in 0.076 in
Ht	(nom. - bare core) (max. - after coating)	2.54 mm 3.30 mm	0.100 in 0.130 in
Mass	(approximate)	0.22 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.0285 cm ²	
	L _e - Eff. Mag. Path Length	1.06 cm	
	V _e - Eff. Core Volume	0.0302 cm ³	
	WA - Min. Eff. Window Area	0.0293 cm ²	
	sa - Surface Area	1.15 cm ²	
	mlt - mean length per turn	1.08 cm	
Inductance	μ _i (reference)	60	
	A _L value (nominal)	20 nH/N ²	
	Test Winding	N=30, #32 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.004 V	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ <p>where B_{pk} expressed in gauss, f expressed in hertz, and: a=9.919E+09, b=9.488E+08, c=4.486E+06, d=3.238E-14</p>		
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ <p>where H expressed in oersteds, and: a=1.000E-02, b=1.212E-06, c=1.961, d=0.000</p>		
Coating/Pkg	Coating Type: Parylene N Voltage Breakdown (min.): 500 Vrms Limit: 0.1 mA, 5 s Package Quantity: 27,000 Pcs/Box		

Winding Table	Wire Size	AWG	28	30	32	34	36	38	40	42	44	-	-
		mm	0.315	0.250	0.200	0.160	0.125	0.100	0.080	0.063	0.050	-	-
	Single Layer	Turns	12	15	20	25	32	40	51	64	81	-	-
		Rdc(Ω)	27.7 m	55.1 m	116.8 m	232.1 m	472.6 m	939.5 m	1.9	3.8	7.7	-	-
Full Winding	Turns	12	19	29	45	69	107	166	257	398	-	-	
	Rdc(Ω)	27.7 m	69.8 m	169.3 m	417.9 m	1.0	2.5	6.2	15.3	37.6	-	-	

