



Part Number: MP-226147-2
 Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core) (max. - after coating)	57.15 mm 58.04 mm	2.250 in 2.285 in
ID	(nom. - bare core) (min. - after coating)	26.39 mm 25.58 mm	1.039 in 1.007 in
Ht	(nom. - bare core) (max. - after coating)	15.24 mm 16.13 mm	0.600 in 0.635 in
Mass	(approximate)	220 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.29 cm ²	
	L _e - Eff. Mag. Path Length	12.506 cm	
	V _e - Eff. Core Volume	28.6 cm ³	
	WA - Min. Eff. Window Area	5.14 cm ²	
	sa - Surface Area	105 cm ²	
	mlt - mean length per turn	7.75 cm	
Inductance	μ _i (reference)	147	
	A _L value (nominal)	338 nH/N ²	
	Test Winding	N=60, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.61 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=3.167E+10, b=1.206E+09, c=9.656E+06, d=5.636E-14		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	312 mW/cm ³	
Core Loss (maximum)	359 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=1.089E-05, c=1.874, d=0.000		
	H _{DC}	40 Oe	
	Percent Initial Perm.(nom.)	47.8%	
Percent Initial Perm.(min.)	39.4%		
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	80 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	19	24	31	39	49	62	78	97	122	152	190
		Rdc(Ω)	3.0 m	6.1 m	12.5 m	25.0 m	50.0 m	100.5 m	201.2 m	397.8 m	795.8 m	1.6	3.1
Full Winding	Turns	27	42	64	100	154	239	370	572	886	1,371	2,122	
	Rdc(Ω)	4.3 m	10.6 m	25.8 m	64.1 m	157.0 m	387.5 m	954.2 m	2.3	5.8	14.2	35.0	

