



Part Number: MP-301060-2
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OD	(nom. - bare core) (max. - after coating)	77.80 mm 78.94 mm	3.063 in 3.108 in
ID	(nom. - bare core) (min. - after coating)	49.23 mm 47.96 mm	1.938 in 1.888 in
Ht	(nom. - bare core) (max. - after coating)	15.88 mm 17.15 mm	0.625 in 0.675 in
Mass	(approximate)	320 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.22 cm ²	
	L _e - Eff. Mag. Path Length	19.612 cm	
	V _e - Eff. Core Volume	43.5 cm ³	
	WA - Min. Eff. Window Area	18.1 cm ²	
	sa - Surface Area	193 cm ²	
	mlt - mean length per turn	8.93 cm	
Inductance	μ _i (reference)	60	
	A _L value (nominal)	85 nH/N ²	
	Test Winding	N=120, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	1.2 V	
	AL tolerance	±8%	
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ <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>		
	B _{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	359 mW/cm ³	
	Core Loss (maximum)	413 mW/cm ³	
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>		
	H _{DC}	100 Oe	
	Percent Initial Perm.(nom.)	49.6%	
	Percent Initial Perm.(min.)	40.8%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	36 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	38	48	60	75	95	118	148	185	230	287	358
		Rdc(Ω)	7.0 m	14.0 m	27.9 m	55.4 m	111.5 m	220.3 m	439.5 m	873.8 m	1.7	3.4	6.8
Full Winding	Turns	95	146	227	351	543	840	1,300	2,012	3,114	4,820	7,459	
	Rdc(Ω)	17.4 m	42.6 m	105.4 m	259.1 m	637.6 m	1.6	3.9	9.5	23.4	57.6	141.7	

