



Part Number: MP-131160-2
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OD	(nom. - bare core)	33.02 mm	1.300 in										
	(max. - after coating)	33.83 mm	1.332 in										
ID	(nom. - bare core)	19.94 mm	0.785 in										
	(min. - after coating)	19.30 mm	0.760 in										
Ht	(nom. - bare core)	8.76 mm	0.345 in										
	(max. - after coating)	9.70 mm	0.382 in										
Mass	(approximate)	35 grams											
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.551 cm ²											
	L _e - Eff. Mag. Path Length	8.15 cm											
	V _e - Eff. Core Volume	4.49 cm ³											
	WA - Min. Eff. Window Area	2.93 cm ²											
	sa - Surface Area	37.8 cm ²											
	mlt - mean length per turn	4.36 cm											
	Inductance	μ _i (reference)	160										
Core Loss	A _L value (nominal)	136 nH/N ²											
	Test Winding	N=70, #22 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	0.17 V											
	AL tolerance	±8%											
DC Saturation	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=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											
DC Saturation	%μ _i = $\frac{1}{a + b \cdot H^c} + d$												
	where H expressed in oersteds, and: a=1.000E-02, b=1.123E-05, c=1.935, d=0.000												
	H _{DC}	40 Oe											
	Percent Initial Perm.(nom.)	41.4%											
Coating/Pkg	Percent Initial Perm.(min.)	33.2%											
	Coating Type:	Blue Epoxy											
	Voltage Breakdown (min.)	1000 Vrms											
	Limit	0.1 mA, 5 s											
Winding Table	Package Quantity	448 Pcs/Box											
	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

