



Part Number: MS-292014-2
Revision 20160816 - Generated 2016-Aug-16



OD	(nom. - bare core)	74.10 mm	2.917 in
	(max. - after coating)	75.20 mm	2.961 in
ID	(nom. - bare core)	45.30 mm	1.783 in
	(min. - after coating)	44.10 mm	1.736 in
Ht	(nom. - bare core)	35.00 mm	1.378 in
	(max. - after coating)	36.20 mm	1.425 in
Mass	(approximate)	450 grams	
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	4.94 cm ²	
	L _e - Eff. Mag. Path Length	18.4 cm	
	V _e - Eff. Core Volume	90.9 cm ³	
	WA - Min. Eff. Window Area	15.3 cm ²	
	sa - Surface Area	228 cm ²	
	mlt - mean length per turn	12.6 cm	
	Inductance	μ _i (reference)	14
Core Loss	A _L value (nominal)	48 nH/N ²	
	Test Winding	N=100, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	2.2 V	
	AL tolerance	±8%	
	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ <p>where B_{pk} expressed in gauss, f expressed in hertz, and: a=1.000E+09, b=4.213E+08, c=1.032E+07, d=2.297E-14</p>		
DC Saturation	B _{pk}	300 G	
	frequency	100 kHz	
	Core Loss (nominal)	79 mW/cm ³	
	Core Loss (maximum)	90 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=5.722E-08, c=1.995, d=0.000</p>		
	H _{DC}	200 Oe	
	Percent Initial Perm (nom.)	81.7%	
Coating/Pkg	Percent Initial Perm (min.)	75.7%	
	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
Winding Table	Package Quantity	18 Pcs/Box	
	Wire Size	AWG	8 10 12 14 16 18 20 22 24 26 28
Single Layer	mm	3.150 2.500 2.000 1.600 1.250 1.000 0.800 0.630 0.500 0.400 0.315	
	Turns	35 44 55 69 87 109 136 170 212 264 329	
Full Winding	Rdc(Ω)	9.0 m 18.1 m 35.9 m 71.7 m 143.7 m 286.3 m 568.1 m 1.1 2.2 4.4 8.8	
	Turns	80 124 192 296 459 710 1,099 1,701 2,633 4,075 6,307	
Full Winding	Rdc(Ω)	20.7 m 50.9 m 125.4 m 307.4 m 758.0 m 1.9 4.6 11.3 27.8 68.5 168.5	

