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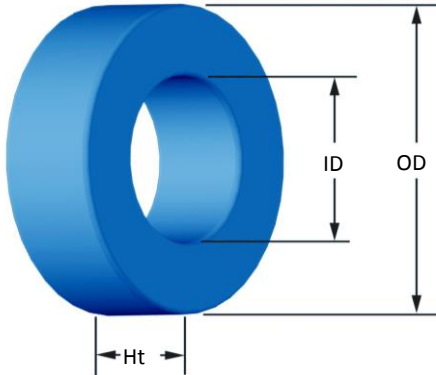
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Part Number:

MS-225014-2

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OD	(nom. - bare core)	57.15 mm	2.250 in
	(max. - after coating)	58.04 mm	2.285 in
ID	(nom. - bare core)	35.56 mm	1.400 in
	(min. - after coating)	34.75 mm	1.368 in
Ht	(nom. - bare core)	13.97 mm	0.550 in
	(max. - after coating)	14.86 mm	0.585 in
Mass	(approximate)	100 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.44 cm ²	
	L_e - Eff. Mag. Path Length	14.296 cm	
	V_e - Eff. Core Volume	20.7 cm ³	
	W_A - Min. Eff. Window Area	9.48 cm ²	
	s_a - Surface Area	109 cm ²	
	mlt - mean length per turn	7.04 cm	
Inductance	μ_i (reference)	14	
	A_L value (nominal)	18 nH/N ²	
	Test Winding	N=80, #18 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.51 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:		
	$a=1.000E+09$, $b=4.213E+08$, $c=1.032E+07$, $d=2.297E-14$		
	B_{pk}	300 G	
	frequency	100 kHz	
	Core Loss (nominal)	79 mW/cm ³	
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$		
	where H expressed in oersteds, and:		
	$a=1.000E-02$, $b=5.722E-08$, $c=1.995$, $d=0.000$		
	H_{DC}	200 Oe	
	Percent Initial Perm(nom.)	81.7%	
	Percent Initial Perm(min.)	75.7%	
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	27	34	43	54	68	85	106	133	166	207	259
		Rdc(Ω)	3.9 m	7.8 m	15.7 m	31.4 m	63.0 m	125.2 m	248.2 m	495.3 m	983.2 m	1.9	3.9
Full Winding	Turns	50	77	119	184	285	441	682	1,056	1,635	2,530	3,916	
	Rdc(Ω)		7.2 m	17.7 m	43.6 m	107.1 m	263.9 m	649.4 m	1.6	3.9	9.7	23.8	58.7

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