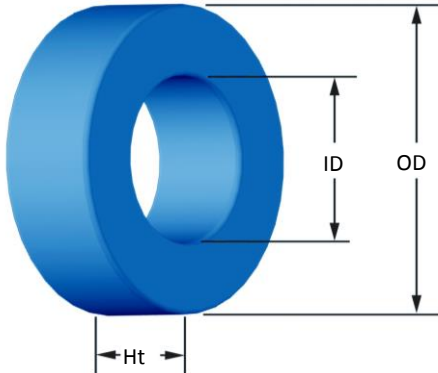


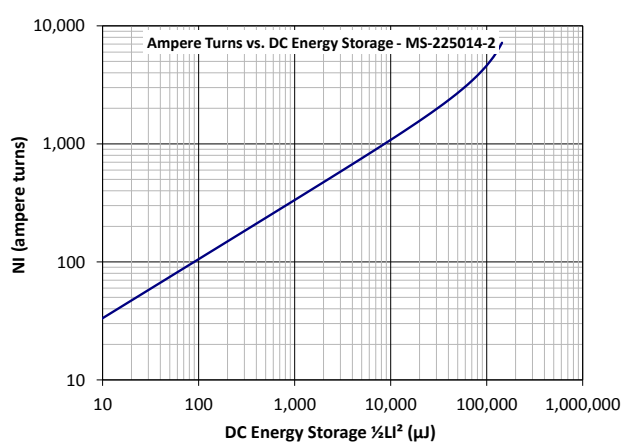
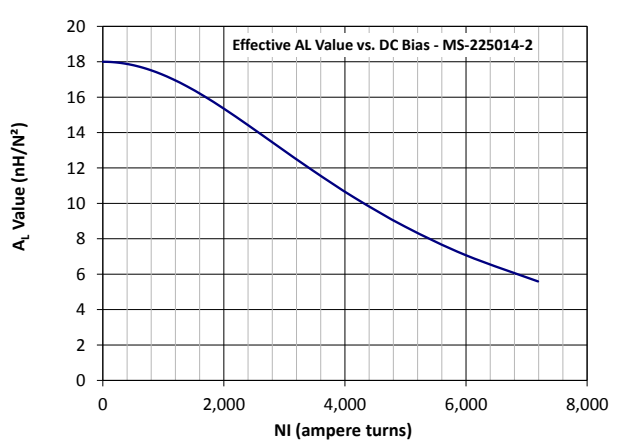
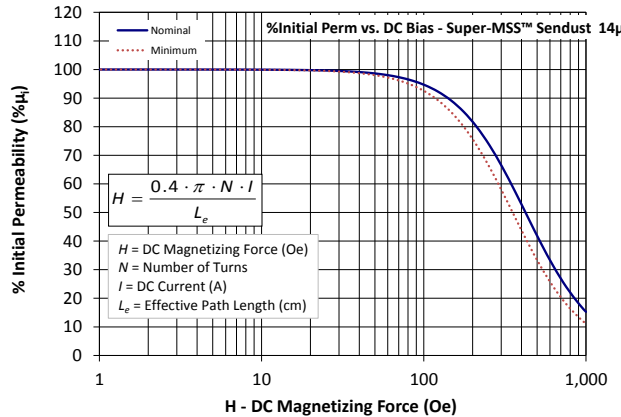
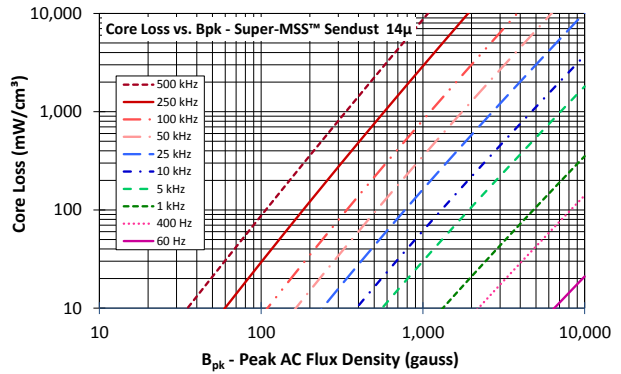


**Part Number:** **MS-225014-2**  
Revision 20140225 - Generated 12-Mar-2014



<b>OD</b>	(nom. - bare core) (max. - after coating)	57.15 mm 58.04 mm	2.250 in 2.285 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	35.56 mm 34.75 mm	1.400 in 1.368 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	13.97 mm 14.86 mm	0.550 in 0.585 in
<b>Mass</b>	(approximate)	100 grams	
<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section $L_e$ - Eff. Mag. Path Length $V_e$ - Eff. Core Volume WA - Min. Eff. Window Area sa - Surface Area mlt - mean length per turn	1.44 cm <sup>2</sup> 14.296 cm 20.7 cm <sup>3</sup> 9.48 cm <sup>2</sup> 109 cm <sup>2</sup> 7.04 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	14 18 nH/N <sup>2</sup> N=80, #18 AWG 10 kHz 0.51 V ±8%	
<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> ): $\frac{f}{\frac{a}{Bpk^3} + \frac{b}{Bpk^{2.3}} + \frac{c}{Bpk^{1.65}}} + d \cdot Bpk^2 \cdot f^2$ where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=1.000E+09$ , $b=4.213E+08$ , $c=1.032E+07$ , $d=2.297E-14$ $B_{pk}$ frequency Core Loss (nominal) Core Loss (maximum)	300 G 100 kHz 79 mW/cm <sup>3</sup> 90 mW/cm <sup>3</sup>	
<b>DC Saturation</b>	$\% \mu_i \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: $a=1.000E-02$ , $b=5.722E-08$ , $c=1.995$ , $d=0.000$ $H_{DC}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	200 Oe 81.7% 75.7%	
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 80 Pcs/Box	

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Single Layer</b>	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
<b>Full Winding</b>	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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