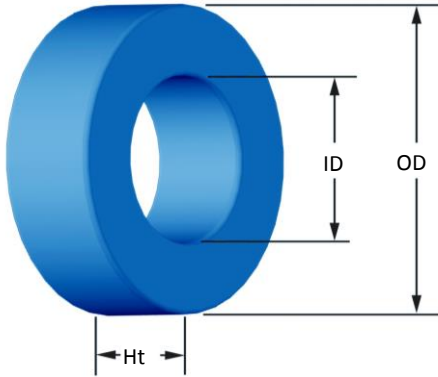


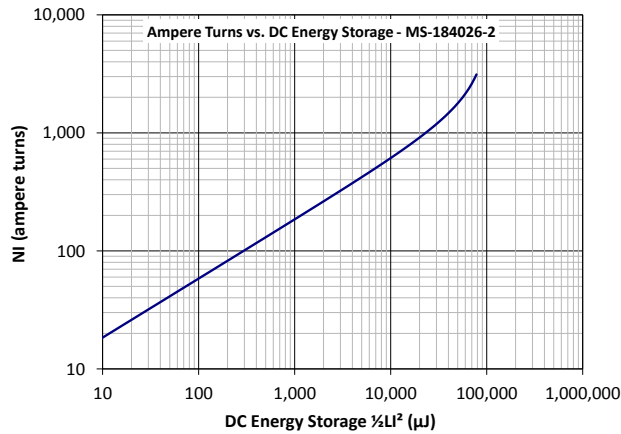
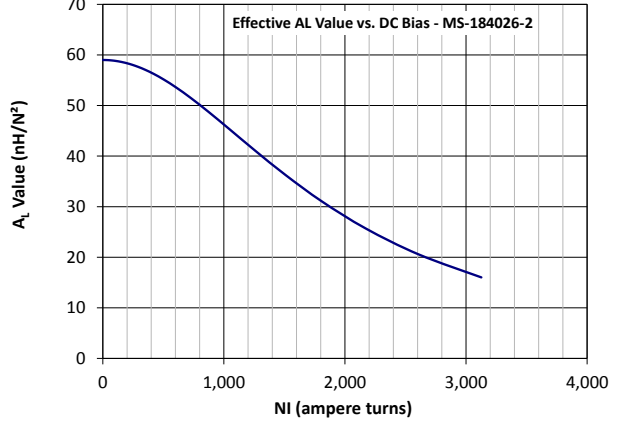
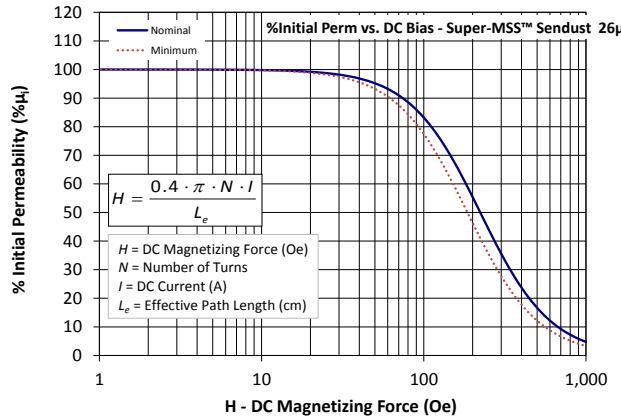
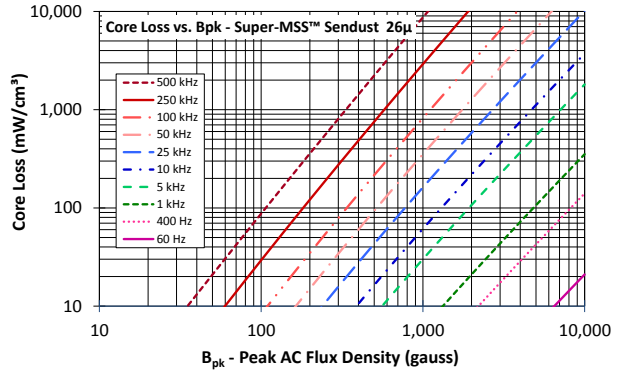


**Part Number:** **MS-184026-2**  
Revision 20140225 - Generated 12-Mar-2014



<b>OD</b>	(nom. - bare core) (max. - after coating)	46.74 mm 47.63 mm	1.840 in 1.875 in
<b>ID</b>	(nom. - bare core) (min. - after coating)	24.13 mm 23.32 mm	0.950 in 0.918 in
<b>Ht</b>	(nom. - bare core) (max. - after coating)	18.03 mm 18.92 mm	0.710 in 0.745 in
<b>Mass</b>	(approximate)	110 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	1.99 cm <sup>2</sup> 10.743 cm 21.4 cm <sup>3</sup> 4.27 cm <sup>2</sup> 81.7 cm <sup>2</sup> 7.38 cm	
<b>Inductance</b>	$\mu_i$ (reference) $A_L$ value (nominal) Test Winding Frequency Voltage on Agilent 4284A AL tolerance	26 59 nH/N <sup>2</sup> N=70, #20 AWG 10 kHz 0.62 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)	500 G 100 kHz 216 mW/cm <sup>3</sup> 248 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: $a=1.000E-02$ , $b=2.061E-07$ , $c=1.995$ , $d=0.000$ $H_{DC}$ Percent Initial Perm.(nom.) Percent Initial Perm.(min.)	200 Oe 55.4% 46.3%	
<b>Coating/Pkg</b>	Coating Type: Voltage Breakdown (min.) Limit Package Quantity	Blue Epoxy 1000 Vrms 0.1 mA, 5 s 100 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	17	22	28	35	45	56	70	88	111	138	173
		Rdc(Ω)	2.6 m	5.3 m	10.7 m	21.4 m	43.7 m	86.5 m	171.9 m	343.7 m	689.5 m	1.4	2.7
<b>Full Winding</b>	Turns	22	35	54	83	128	199	307	476	736	1,139	1,764	
	Rdc(Ω)	3.3 m	8.4 m	20.7 m	50.7 m	124.3 m	307.3 m	753.9 m	1.9	4.6	11.3	27.7	



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