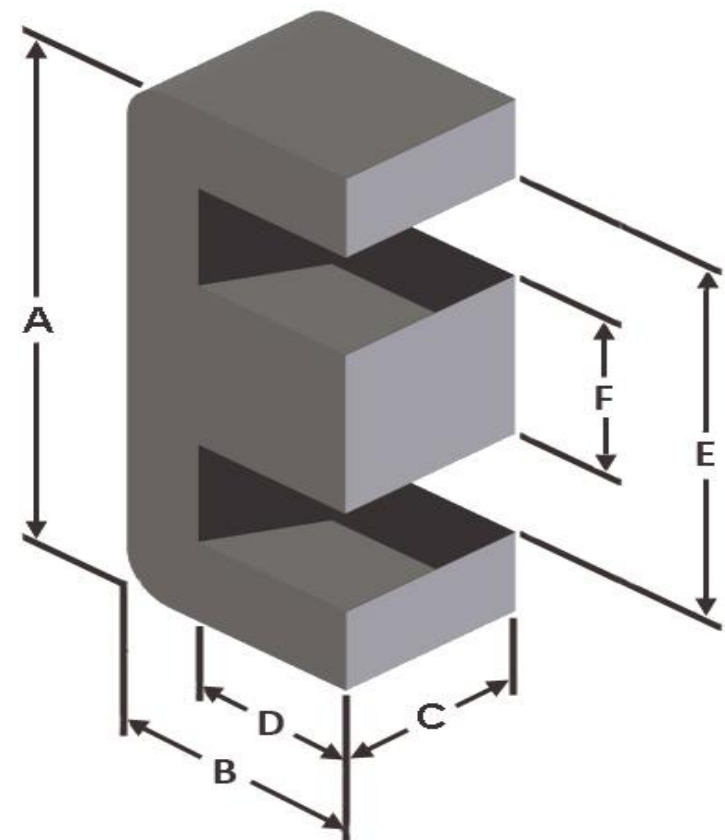




**Part Number:** EMS-0190805-090

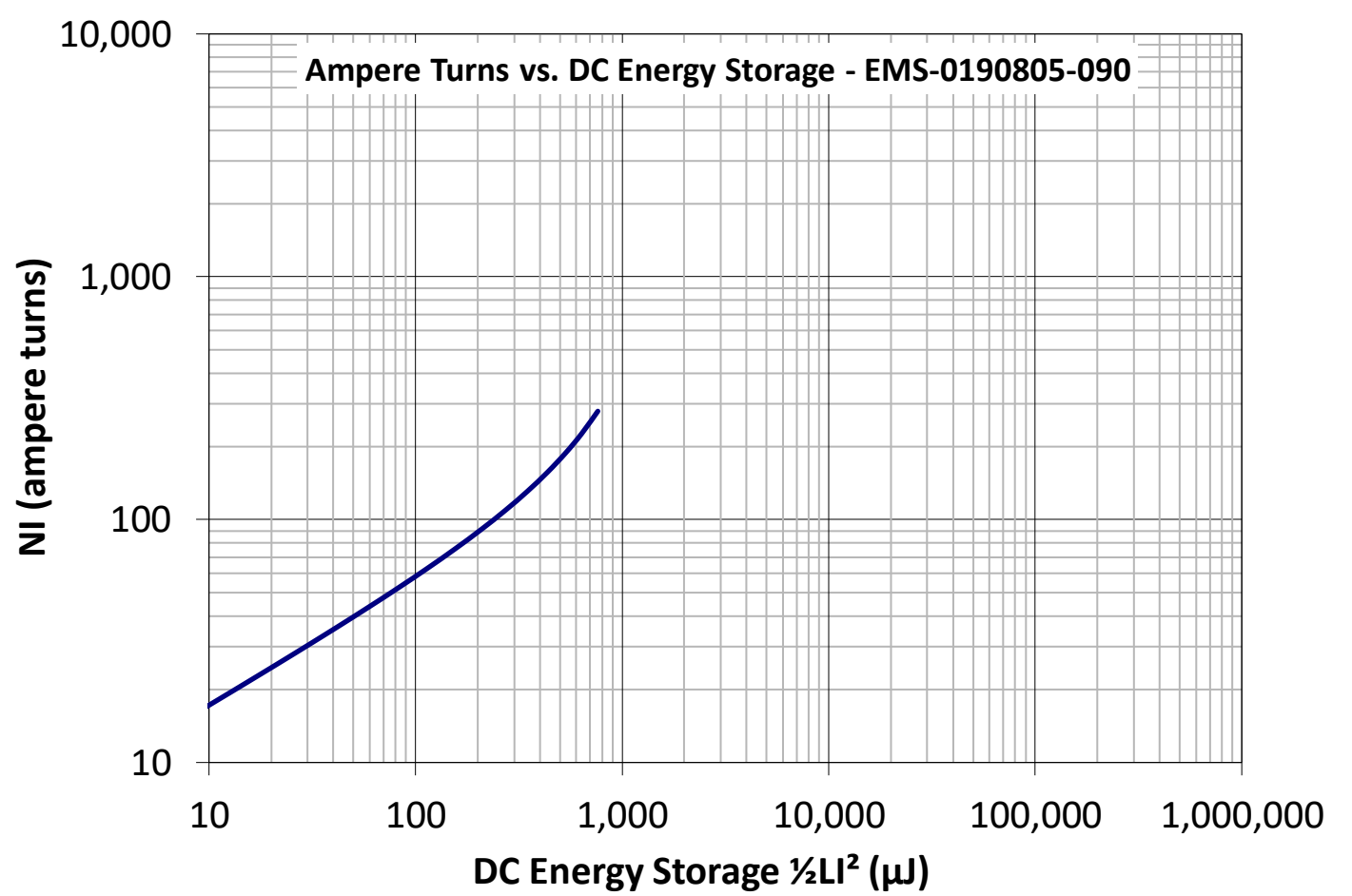
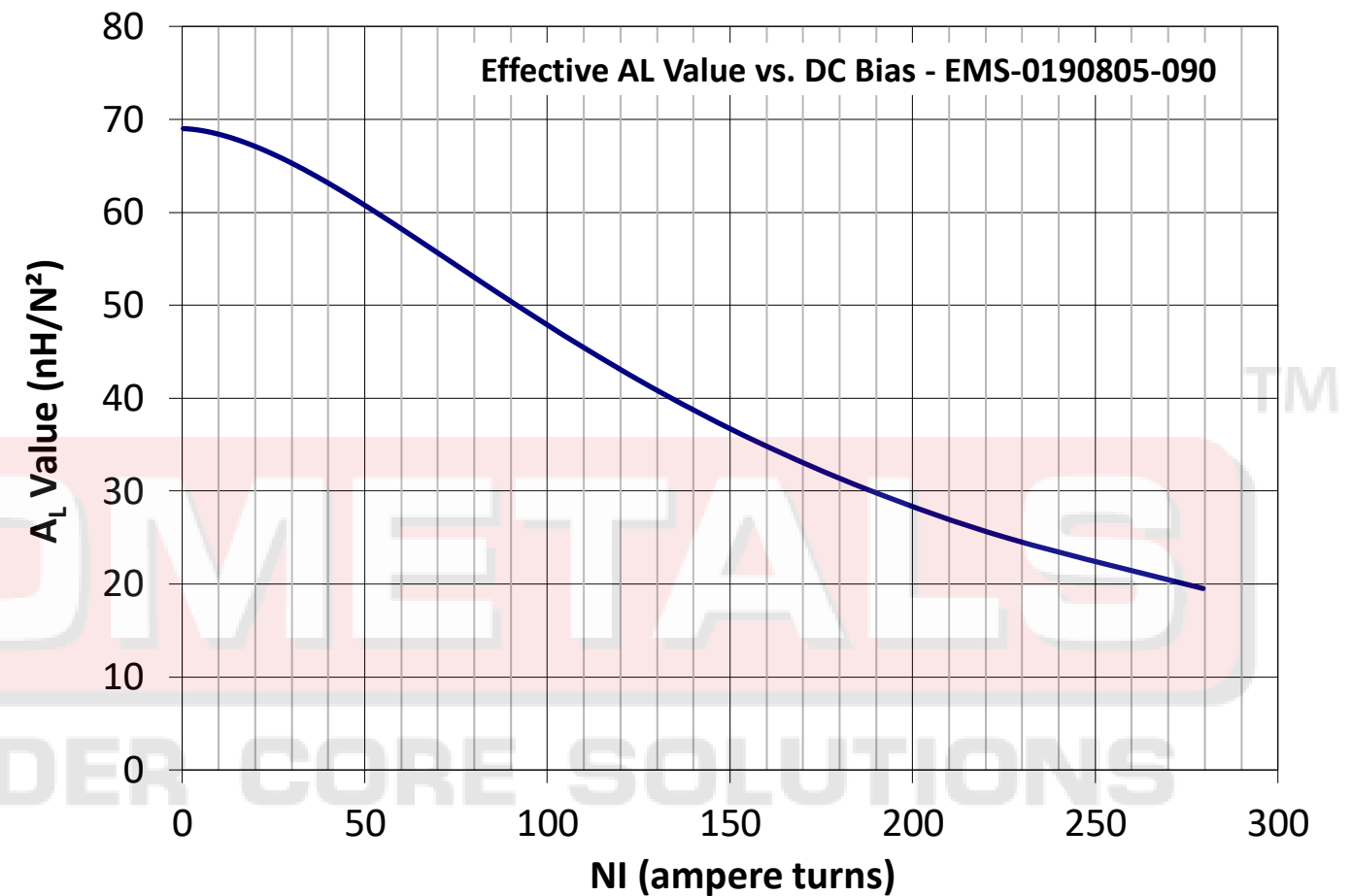
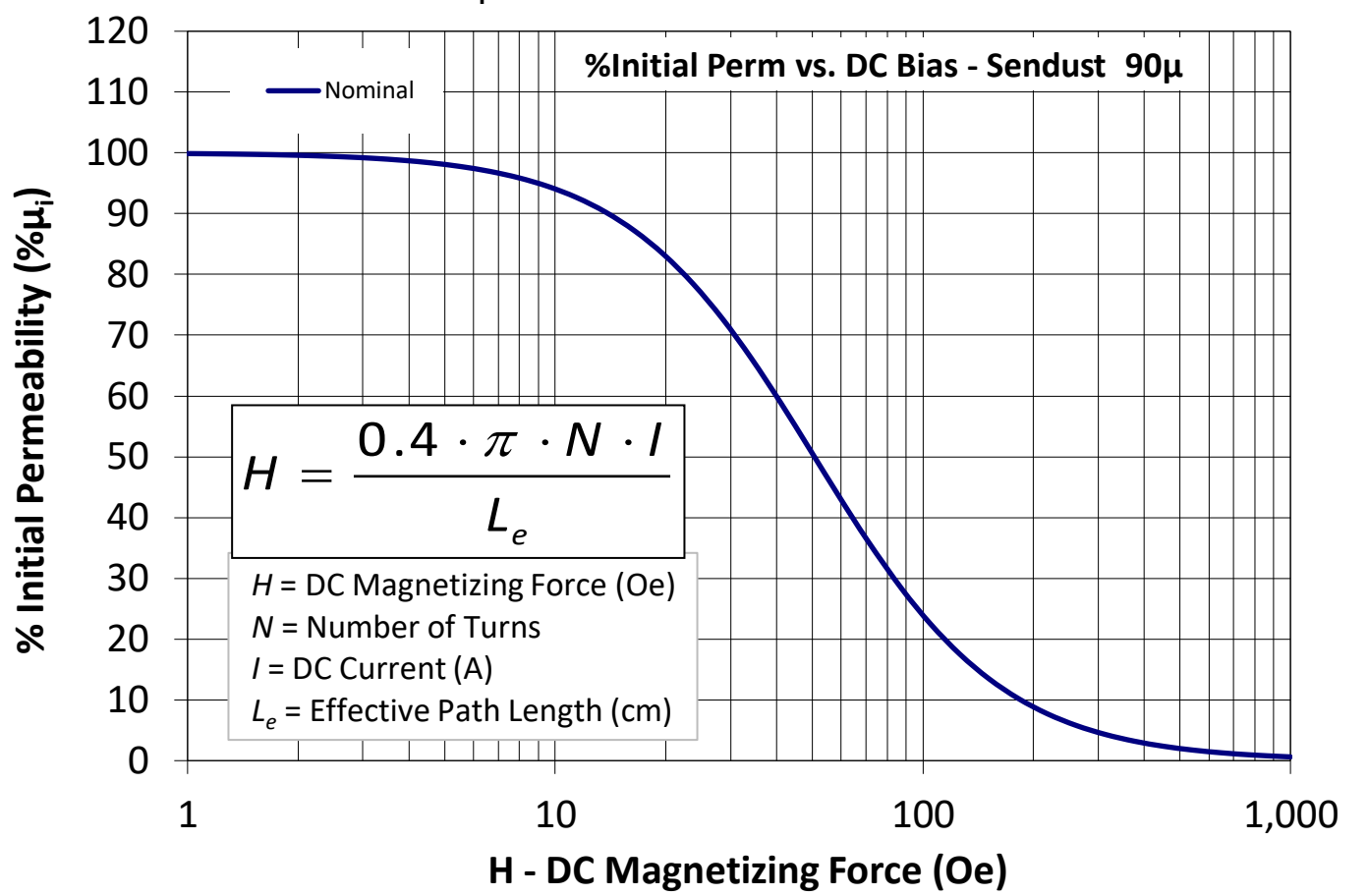
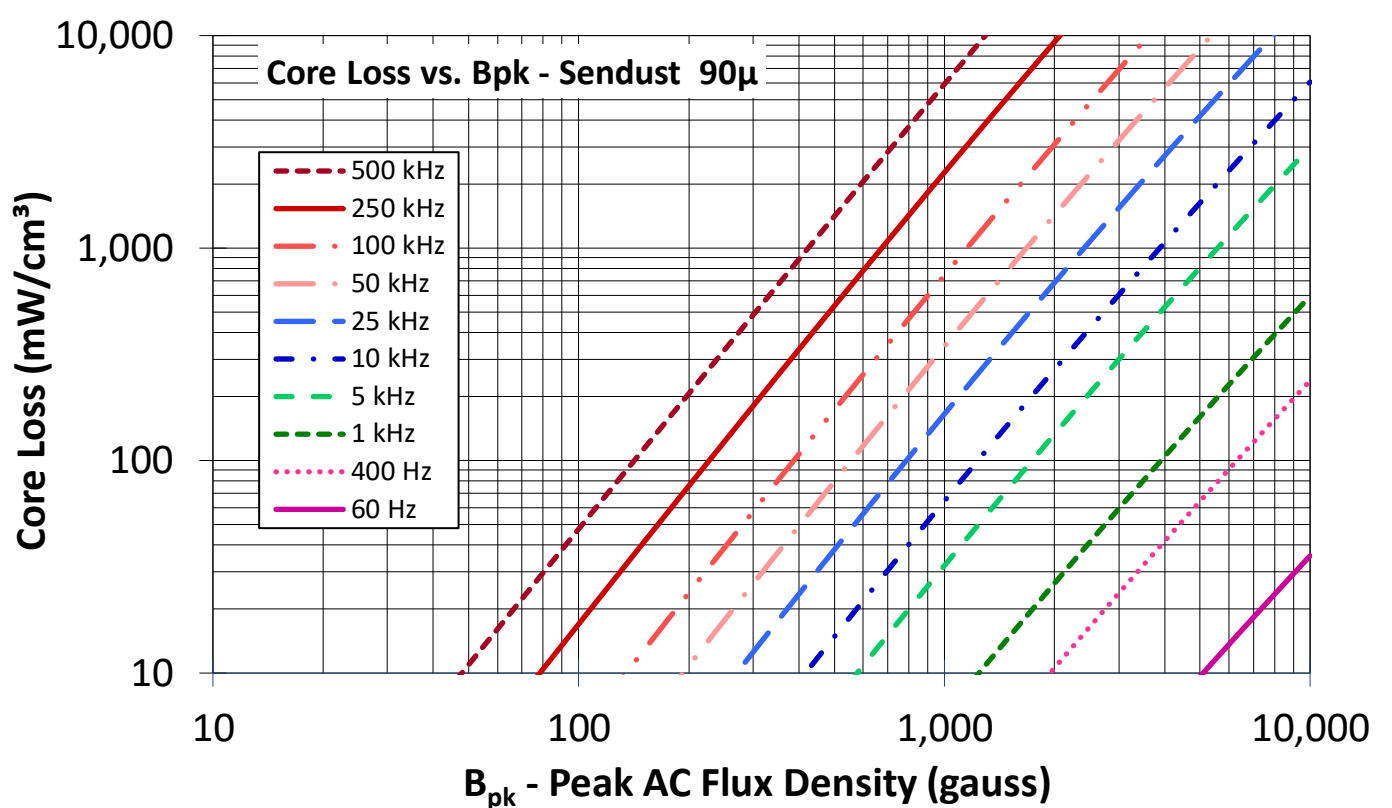
Revision 2021-Oct-22 - Generated 2022-Jan-17



<b>A</b>	19.3 ± 0.30 mm	0.760 ± 0.012 in
<b>B</b>	8.1 ± 0.18 mm	0.319 ± 0.007 in
<b>C</b>	4.78 ± 0.15 mm	0.188 ± 0.006 in
<b>D</b>	5.54 mm (min.)	0.218 in (min.)
<b>E</b>	13.9 mm (min.)	0.547 in (min.)
<b>F</b>	4.78 ± 0.13 mm	0.188 ± 0.005 in

<b>Mass</b>	(approximate)	2.6 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.228 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	4.01 cm
	V <sub>e</sub> - Eff. Core Volume	0.914 cm <sup>3</sup>
	WA - Min. Eff. Window Area	0.498 cm <sup>2</sup>
	sa - Surface Area	11.9 cm <sup>2</sup>
<b>Inductance</b>	mlt - mean length per turn	3.74 cm
	μ <sub>i</sub> (reference)	90
<b>Core Loss</b>	A <sub>L</sub> value (nominal)	69 nH/N <sup>2</sup>
	Test Winding	N=100, #26 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.10 V
	A <sub>L</sub> tolerance	±8%
<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ where H expressed in oersteds, and: a=0.01, b=1.26E-05, c=1.70, d=0.00	
	H <sub>DC</sub>	50 Oe
	Percent Initial Perm.(nom.)	50.6%
	Percent Initial Perm.(min.)	42.9%
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	2,880 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	AWG	16	18	20	22	24	26	28	30	32	34	36
		mm	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125
<b>Winding</b>	<b>Full</b>	Turns	15	24	37	57	88	137	212	328	508	786	1,216
		Rdc(Ω)	7.4 m	18.8 m	46.0 m	112.7 m	276.7 m	685.0 m	1.7	4.1	10.2	25.1	61.9



**Handling and Storage:** Cores should be stored in the original unopened packaging between -10°C and +50°C and less than 60% relative humidity. After the original packaging is opened, the cores should be stored between -8°C and +25°C less than 30% relative humidity. Gloves should be used when handling uncoated cores. The cores should also be sheltered from rain, moisture, salt water, salt air, plasters, ashes, sulfur, sulfur dioxide, ammonia sulfates, soils, acids, metals shavings, and solvents.

**Operating Temperature:** Cores can be used continuously at operating temperatures between -60°C and +200°C.

**RoHS 2.0, REACH and ISO (TS16949, ISO 9001, ISO 14001) compliant. Statements available for download at [www.micrometals.com](http://www.micrometals.com).**

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