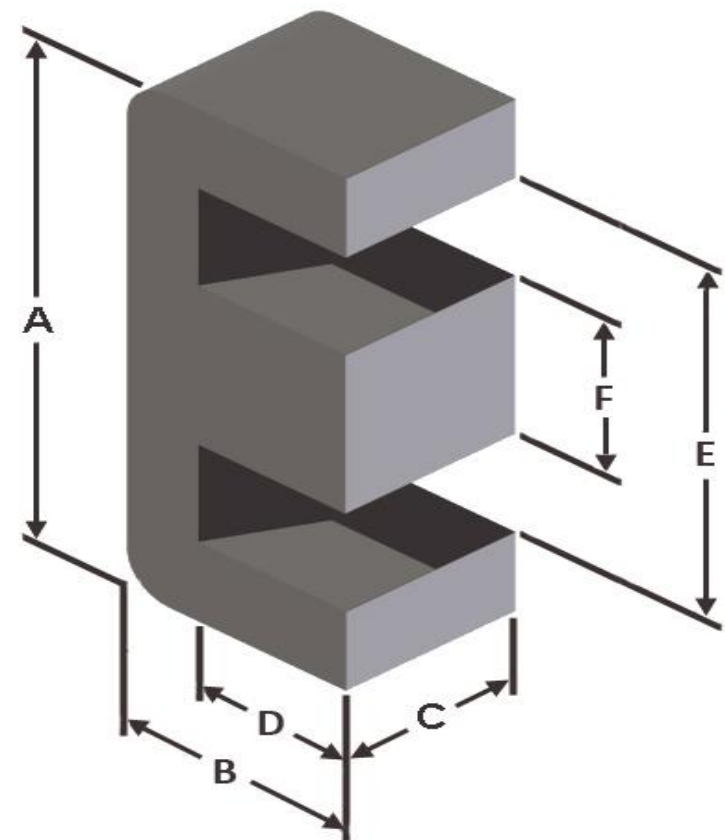




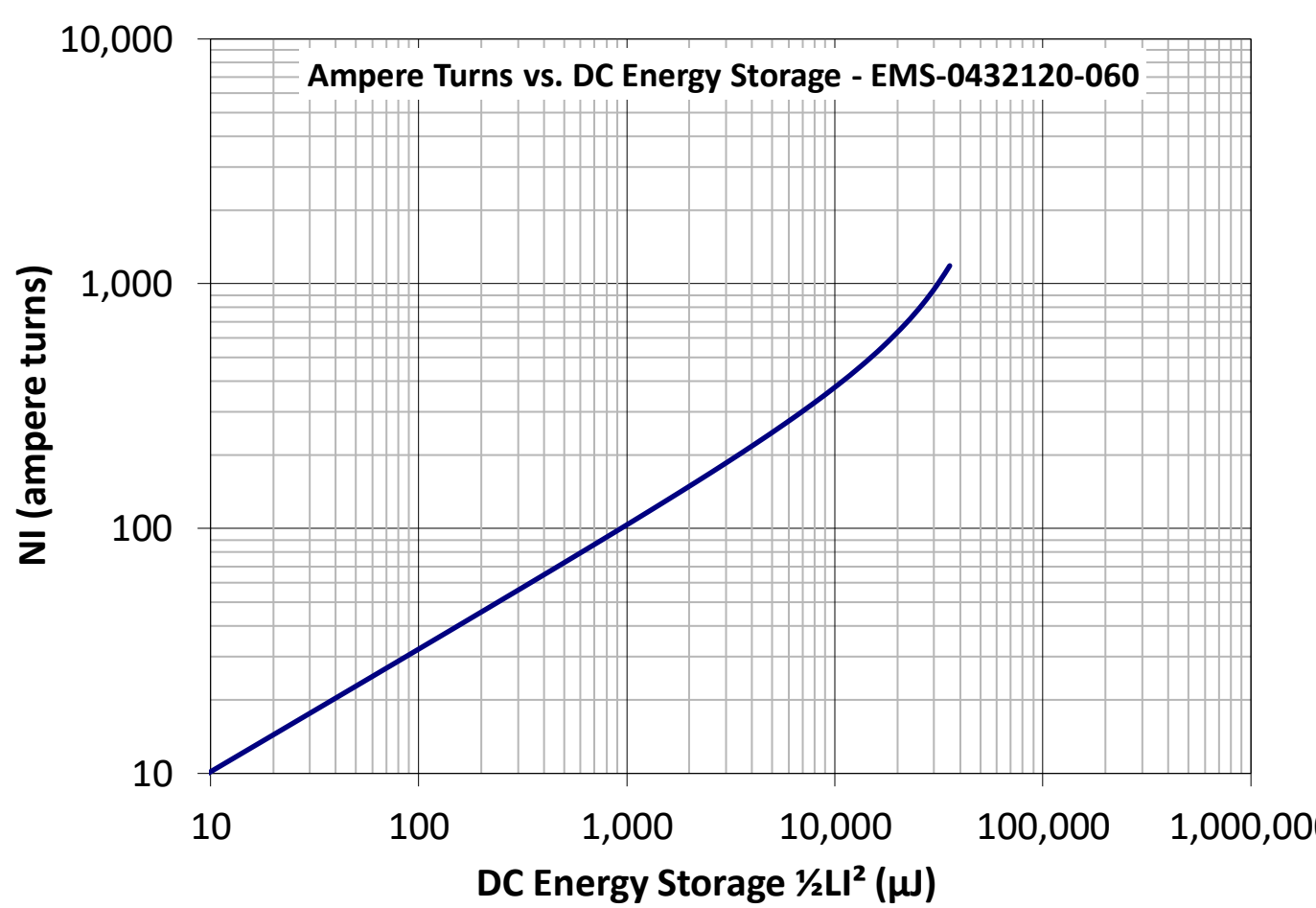
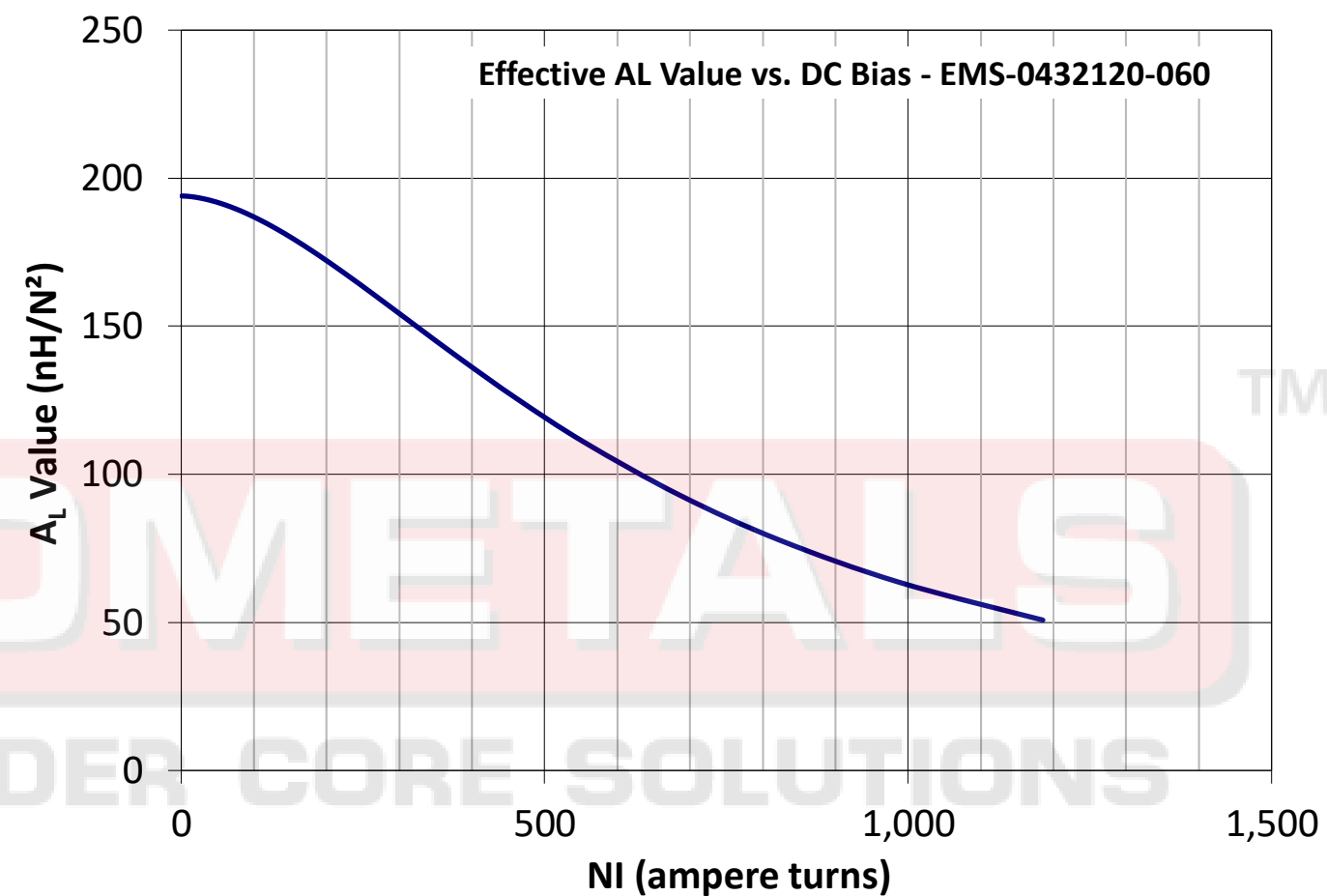
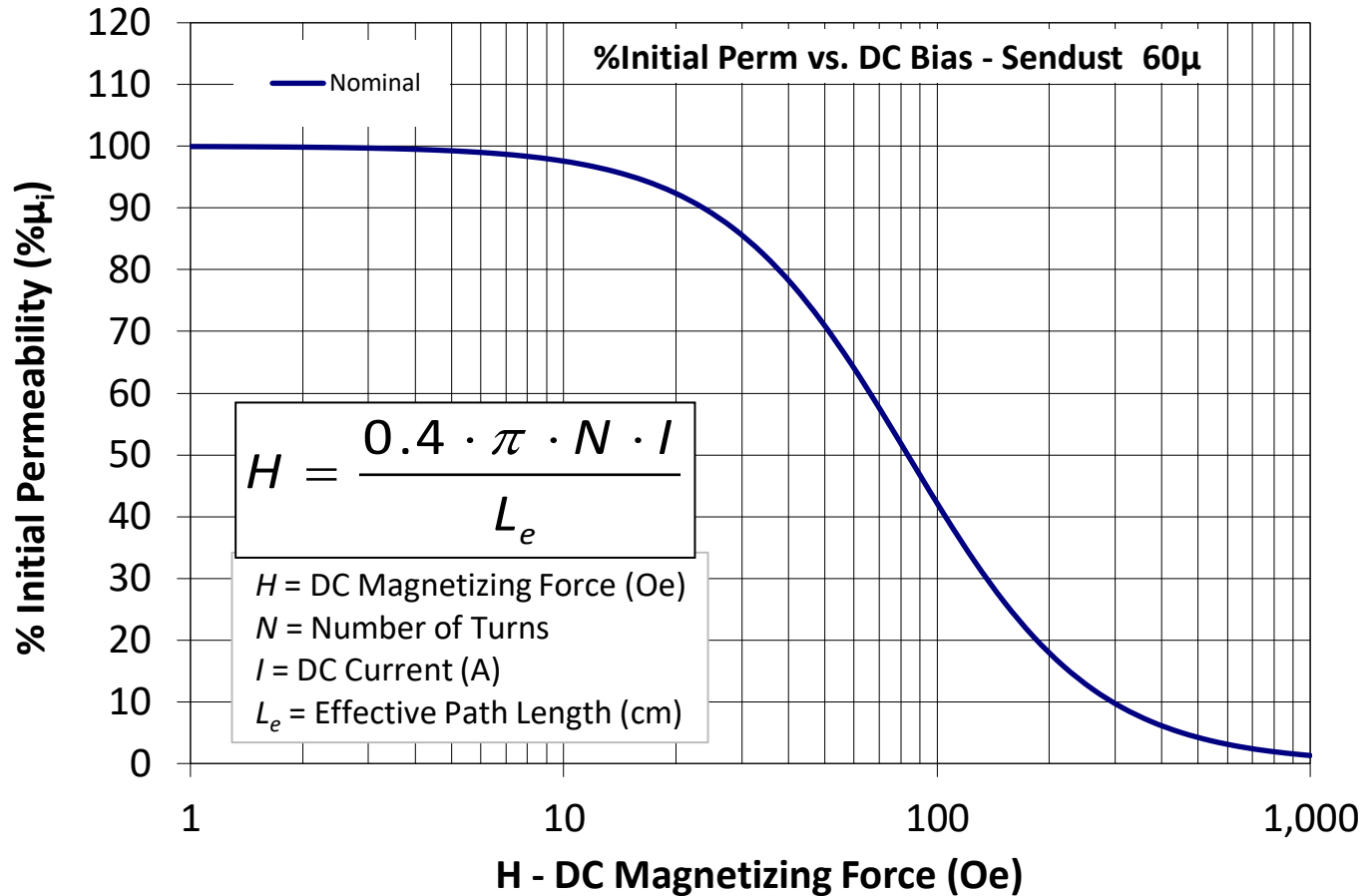
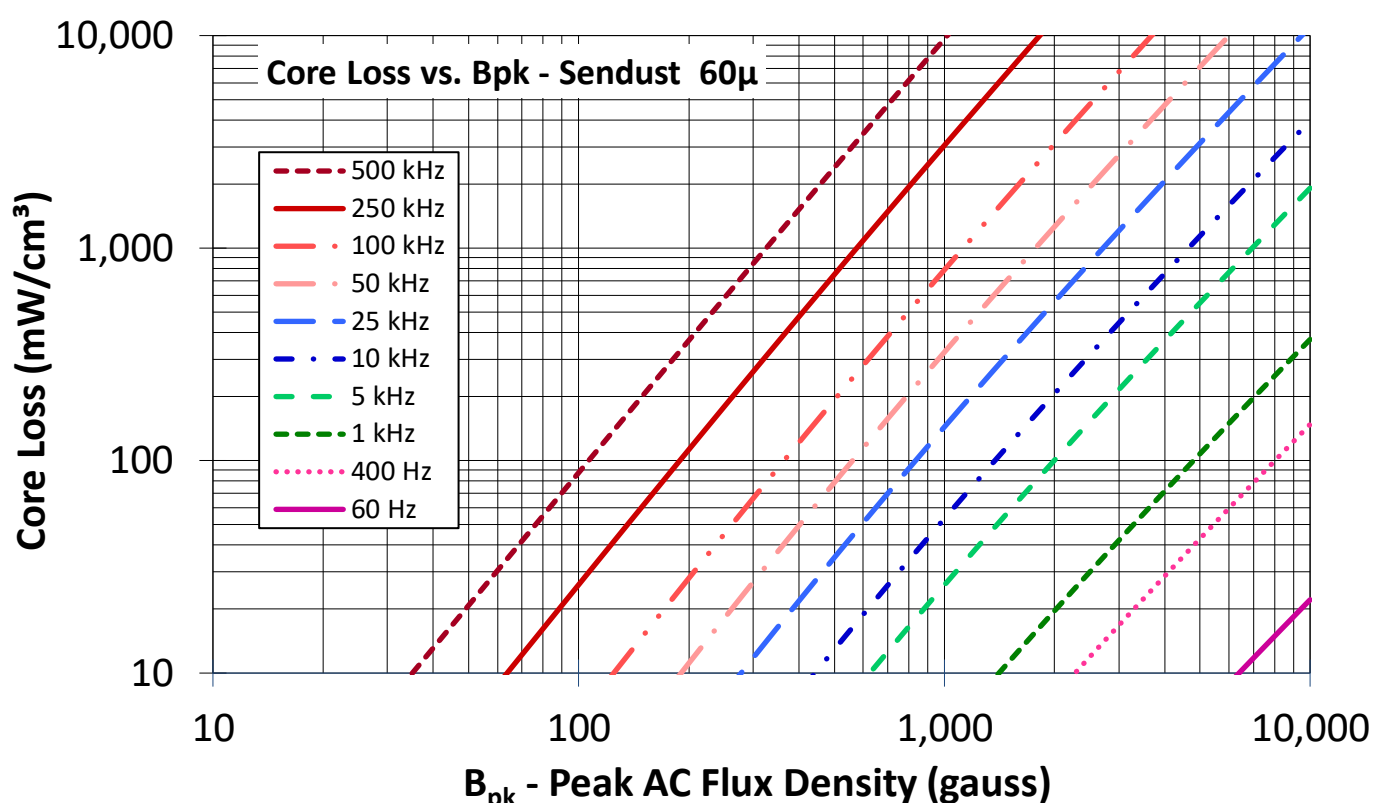
Part Number: EMS-0432120-060

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



A	42.8 ± 0.64 mm	1.685 ± 0.025 in
B	21.1 ± 0.33 mm	0.831 ± 0.013 in
C	20 ± 0.25 mm	0.787 ± 0.010 in
D	15 mm (min.)	0.591 in (min.)
E	30.4 mm (min.)	1.197 in (min.)
F	11.9 ± 0.25 mm	0.469 ± 0.010 in

Mass	(approximate)	64 grams/half										
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	2.37 cm ²										
	L _e - Eff. Mag. Path Length	9.84 cm										
	V _e - Eff. Core Volume	23.3 cm ³										
	WA - Min. Eff. Window Area	2.74 cm ²										
	sa - Surface Area	81.3 cm ²										
Inductance	mlt - mean length per turn	10.1 cm										
	μ _i (reference)	60										
Core Loss	A _L value (nominal)	194 nH/N ²										
	Test Winding	N=100, #18 AWG										
	Frequency	10 kHz										
	Voltage on Agilent 4284A	1.1 V										
	A _L tolerance	±8%										
	Core Loss(mW/cm ³)= $\frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$											
DC Saturation	where B _{pk} expressed in gauss, f expressed in hertz, and: a=7.89E+09, b=7.11E+08, c=8.98E+06, d=2.85E-14											
	B _{pk}	1000 G										
	frequency	50 kHz										
	Core Loss (nominal)	323 mW/cm ³										
Coating/Pkg	Core Loss (maximum)	372 mW/cm ³										
	%μ _i = $\frac{1}{a + b \cdot H^c} + d$											
	where H expressed in oersteds, and: a=0.01, b=4.47E-06, c=1.74, d=0.00											
Winding Table	H _{DC}	100 Oe										
	Percent Initial Perm.(nom.)	42.2%										
	Percent Initial Perm.(min.)	34.7%										
	Coating Type:	None										
Winding Table	Voltage Breakdown (min.)	N/A										
	Limit	N/A										
	Package Quantity	240 Halves/Box										
	Wire Size	AWG	8	10	12	14	16	18	20	22	24	26
Winding Table	mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Full Winding	Turns	15	23	35	55	85	131	203	314	486	752
Winding Table	Rdc(Ω)	3.1 m	7.6 m	18.3 m	45.9 m	112.7 m	276.2 m	680.8 m	1.7	4.1	10.1	25.0



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.

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