



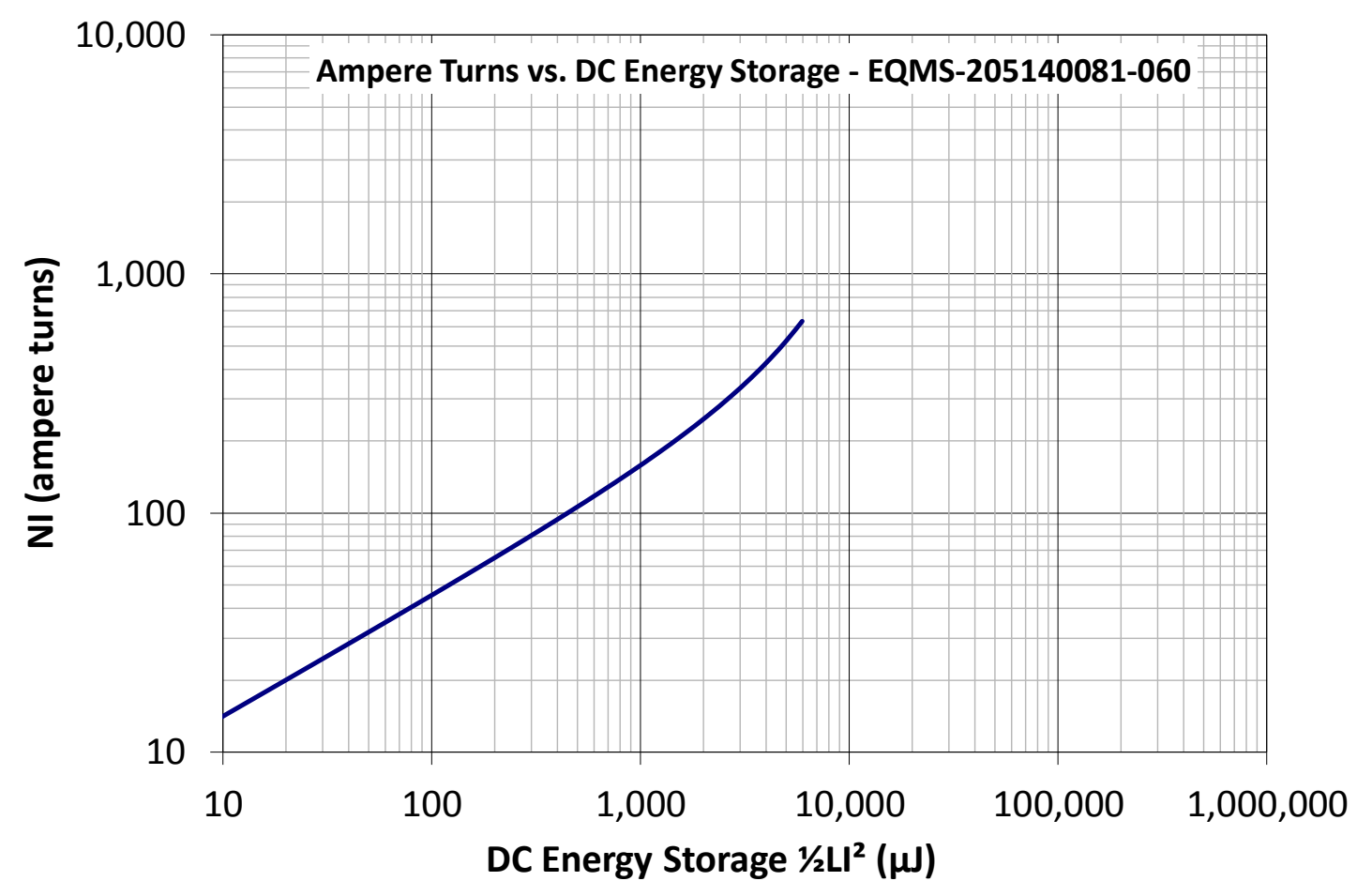
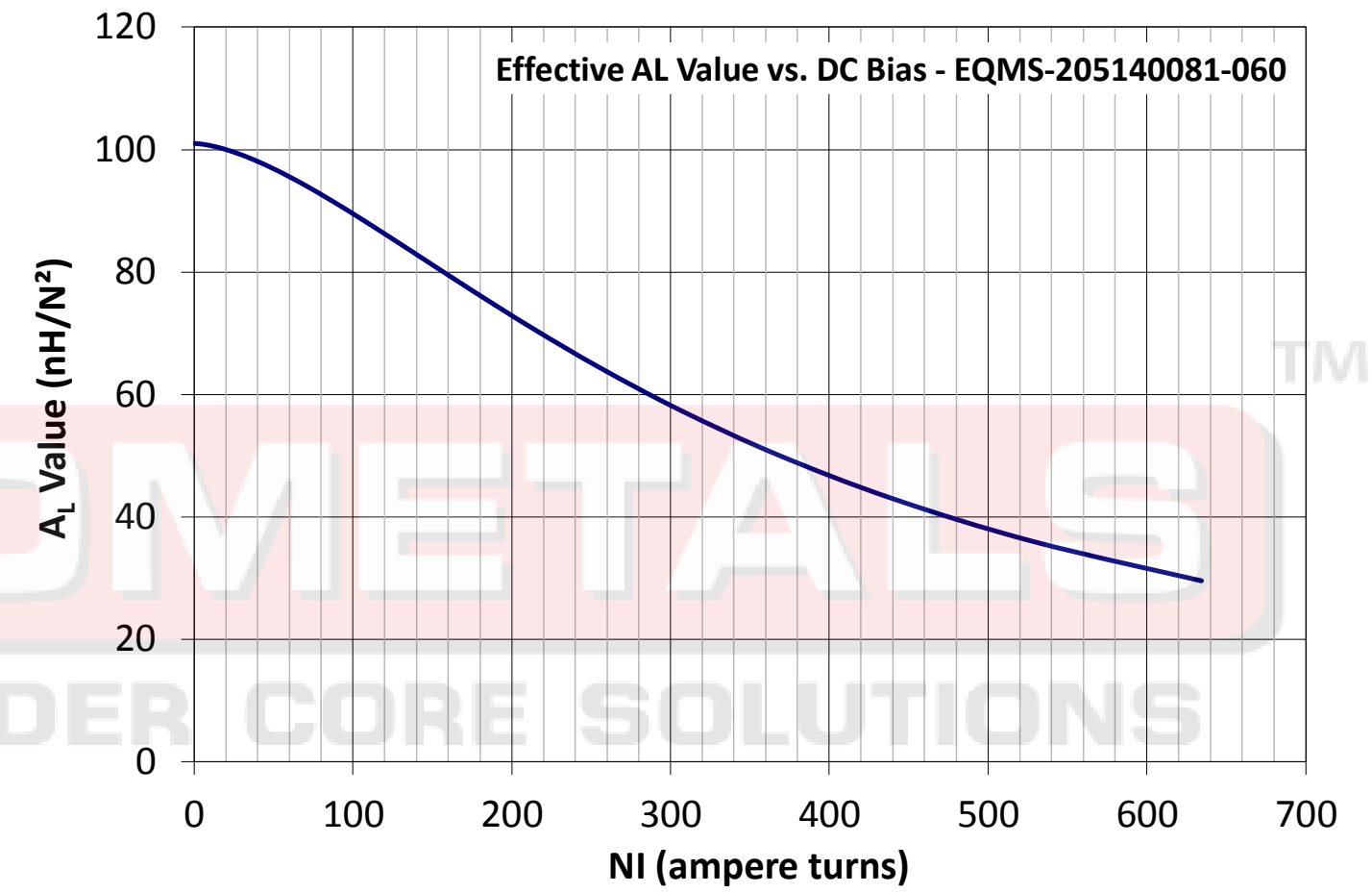
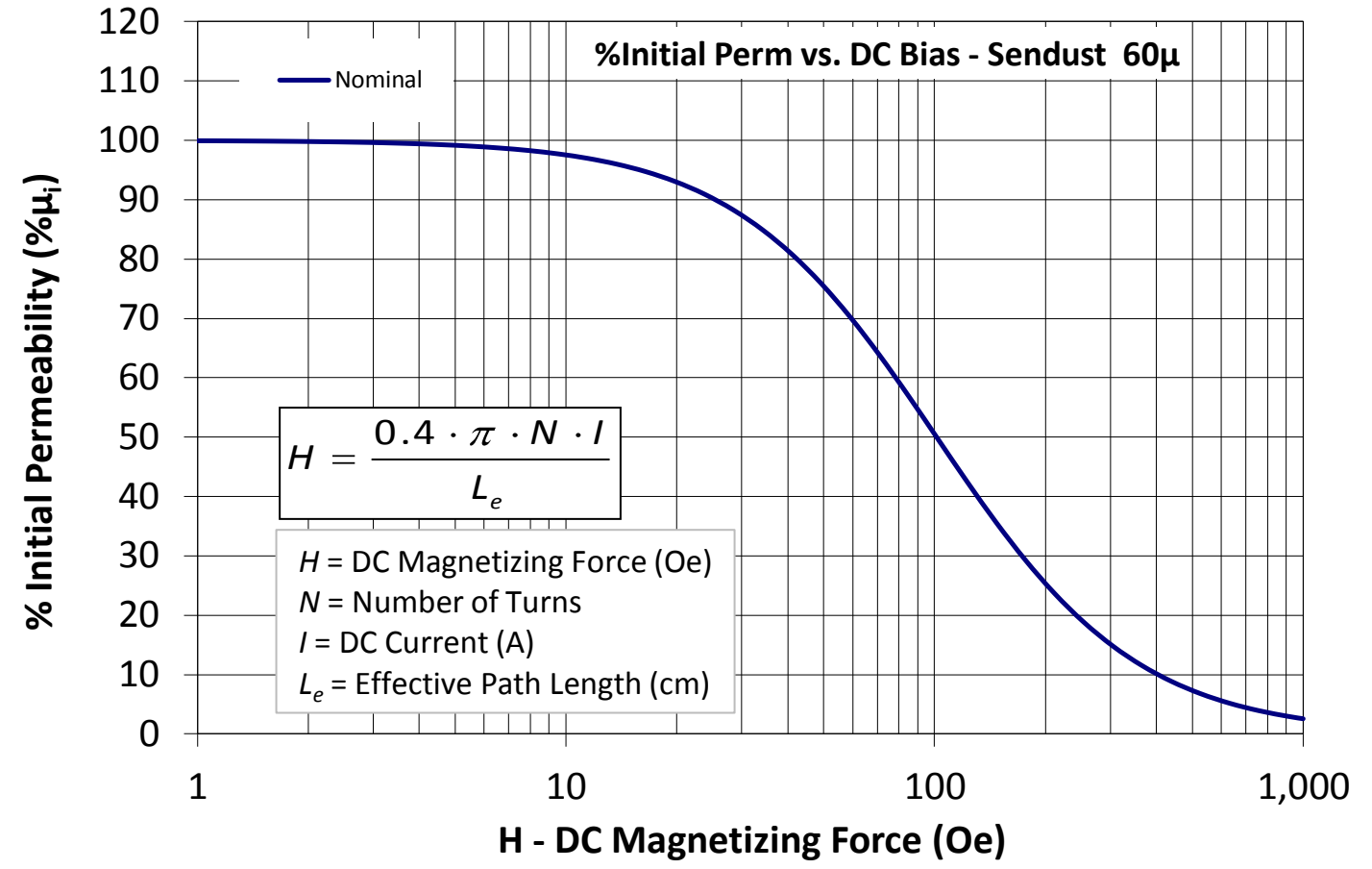
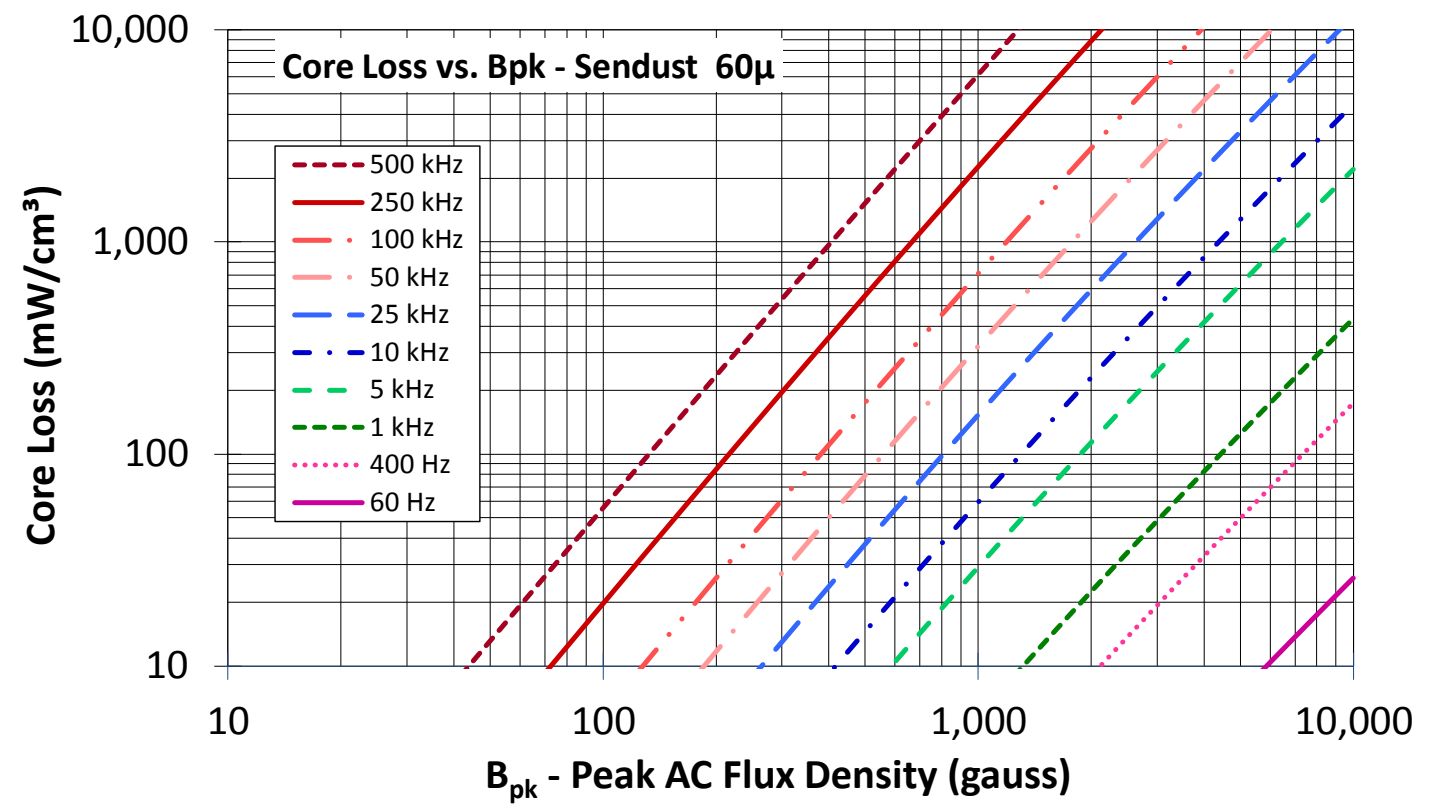
**Part Number:** EQMS-205140081-060

Revision 20190529 - Generated 2019-May-29



<b>A</b>	20.5 ± 0.30 mm	0.807 ± 0.012 in
<b>B</b>	14 ± 0.20 mm	0.551 ± 0.008 in
<b>C</b>	8.1 ± 0.20 mm	0.319 ± 0.008 in
<b>D</b>	5.4 mm (min.)	0.213 in (min.)
<b>E</b>	8.8 ± 0.20 mm	0.346 ± 0.008 in
<b>F</b>	17.8 mm (min.)	0.701 in (min.)
<b>Mass</b>	(approximate)	7.1 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.608 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	4.52 cm
	V <sub>e</sub> - Eff. Core Volume	2.75 cm <sup>3</sup>
	WA - Min. Eff. Window Area	0.475 cm <sup>2</sup>
	sa - Surface Area	16.2 cm <sup>2</sup>
	mlt - mean length per turn	4.18 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	60
	A <sub>L</sub> value (nominal)	101 nH/N <sup>2</sup>
	Test Winding	N=20, #24 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.054 V
	A <sub>L</sub> tolerance	±12%
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.00E+06, b=7.12E+08, c=7.40E+06, d=1.30E-14	
	B <sub>pk</sub>	1000 G
	frequency	50 kHz
	Core Loss (nominal)	322 mW/cm <sup>3</sup>
Core Loss (maximum)	370 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=0.01, b=6.47E-06, c=1.59, d=0.00	
	H <sub>DC</sub>	100 Oe
	Percent Initial Perm(nom.)	50.5%
Percent Initial Perm(min.)	43.3%	
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	1,300 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>Full Winding</b>	Turns	15	23	35	54	84	131	202	313	484	749	1,159
		Rdc(Ω)	8.2 m	20.1 m	48.7 m	119.4 m	295.4 m	732.6 m	1.8	4.4	10.9	26.8	65.9



**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.micrometalsapc.com](http://www.micrometalsapc.com).

Micrometals Alloy Powder Cores, A Division of Micrometals, Inc. - 5615 E. La Palma Ave., Anaheim, California 92807 USA

Ph: +1-714-970-9400, Toll Free in USA: +1-800-356-5977, Asia Pacific Sales: +852 3106 3736

[www.MicrometalsAPC.com](http://www.MicrometalsAPC.com)