



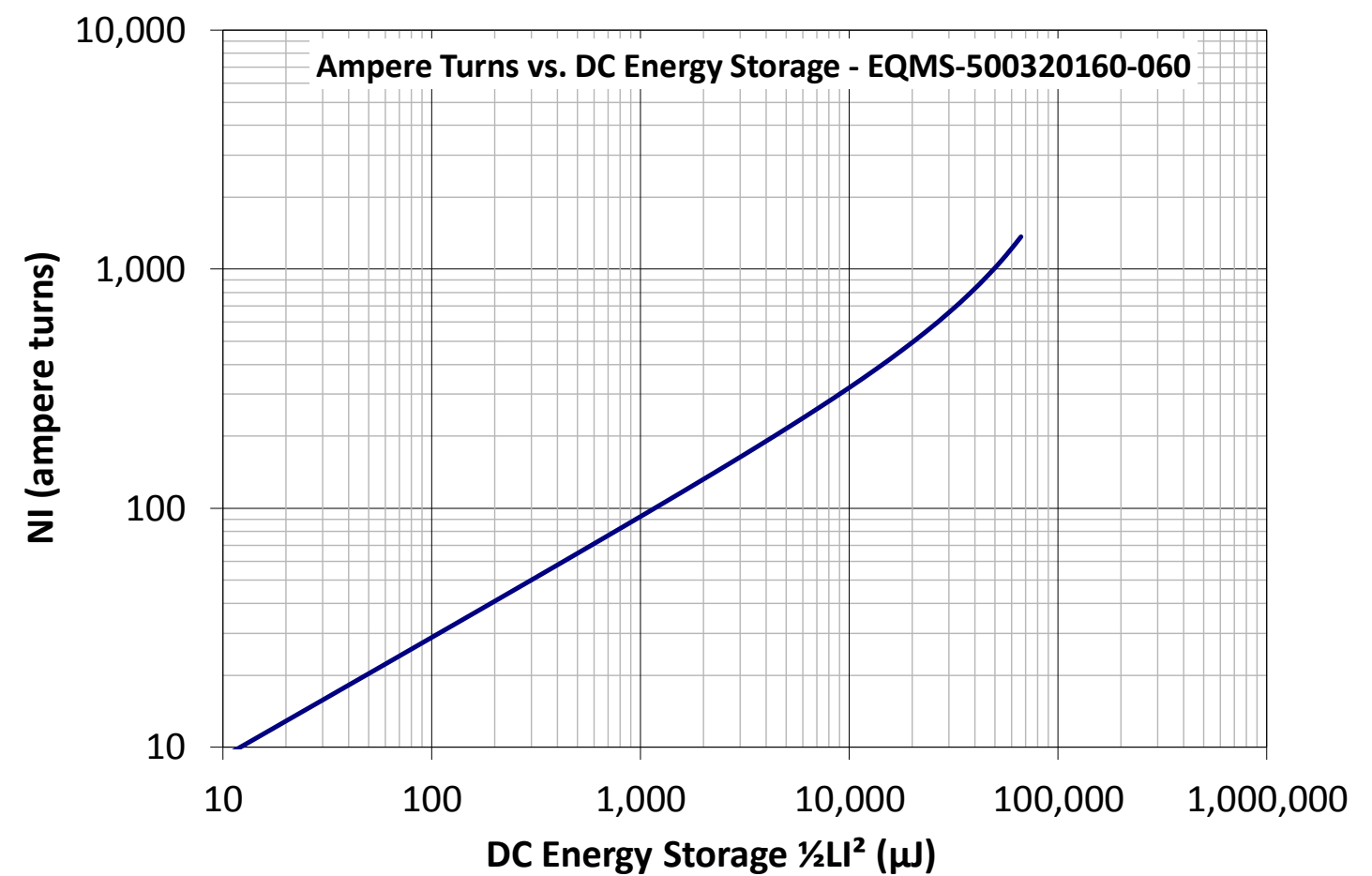
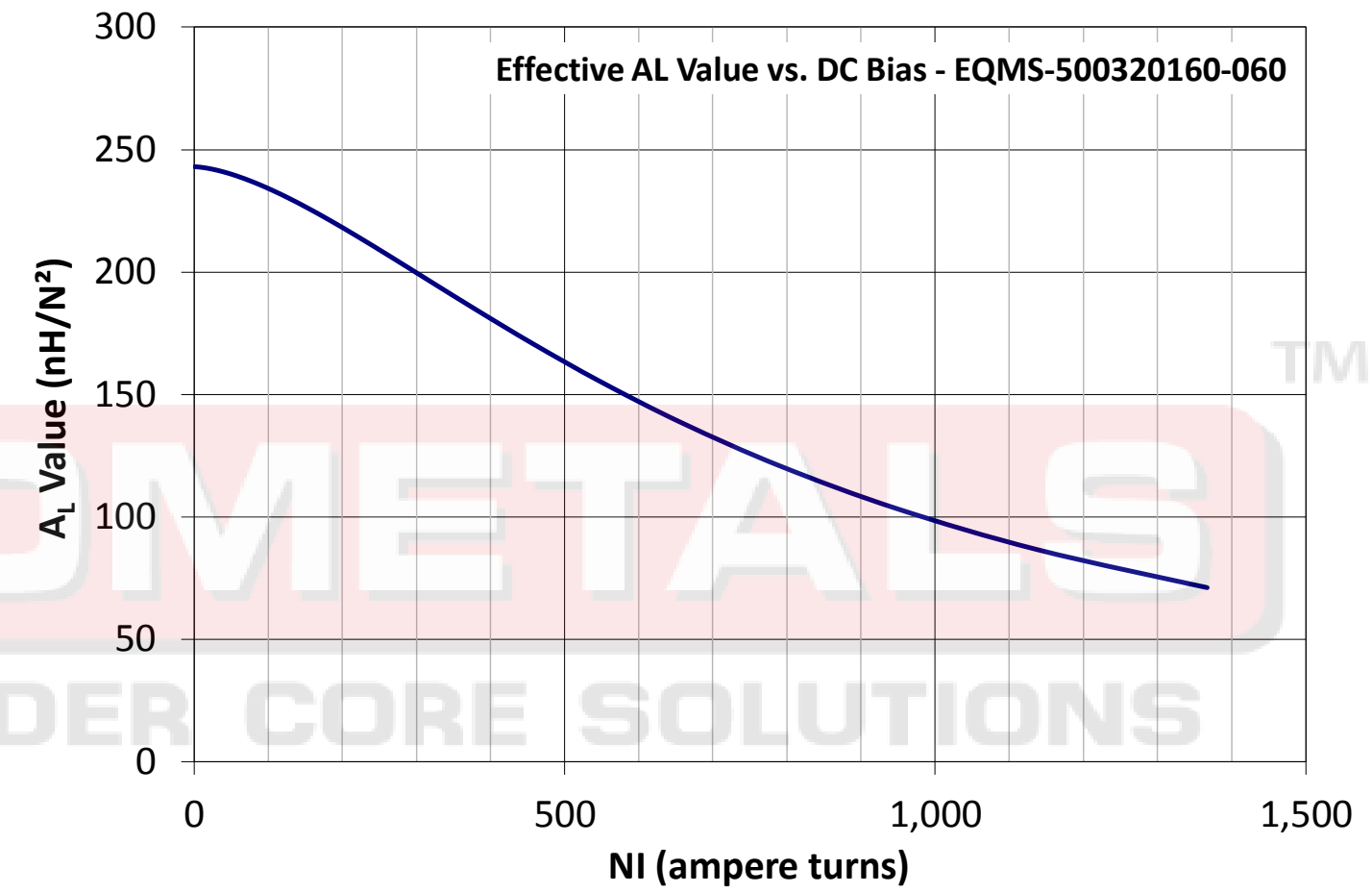
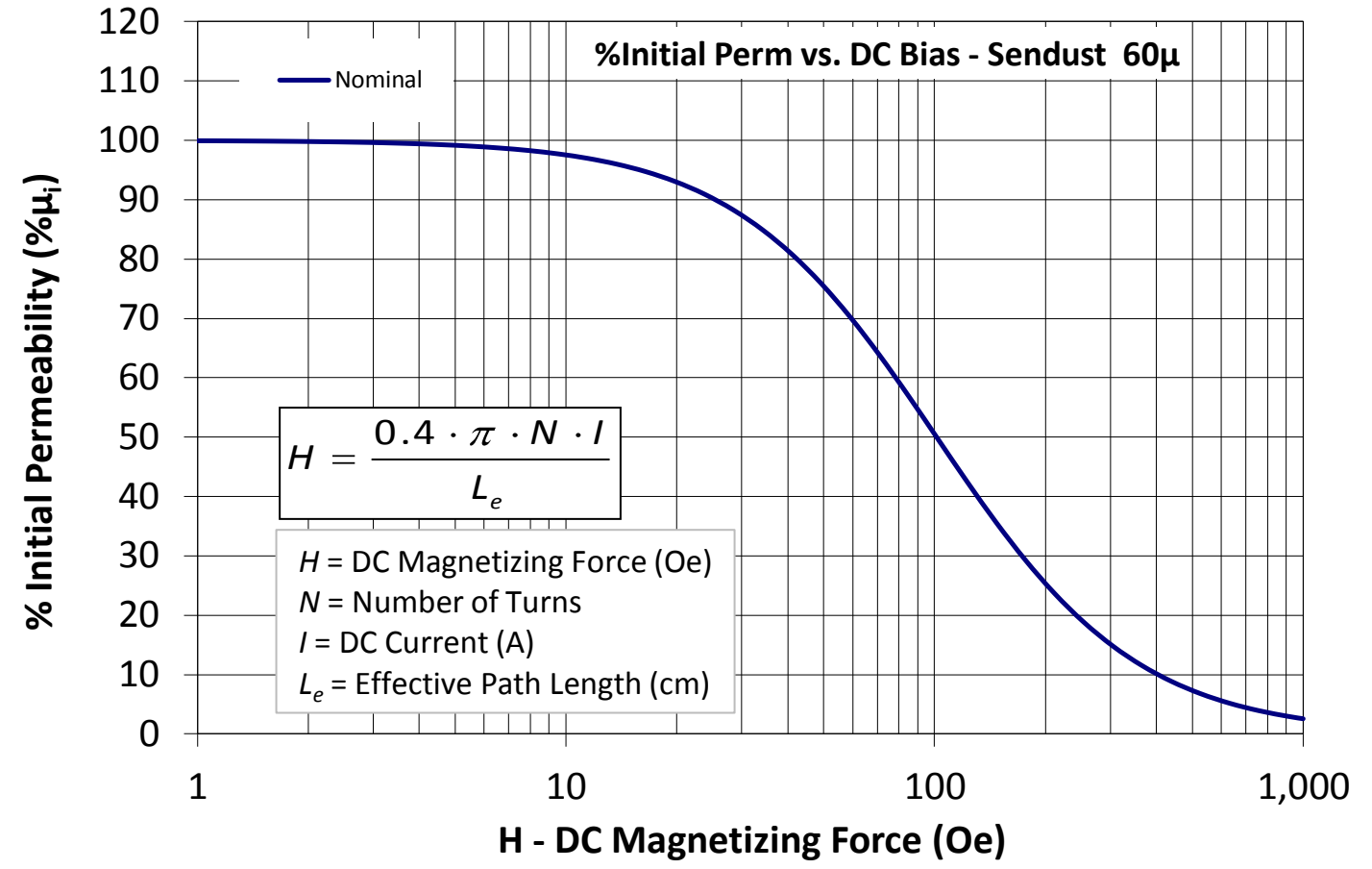
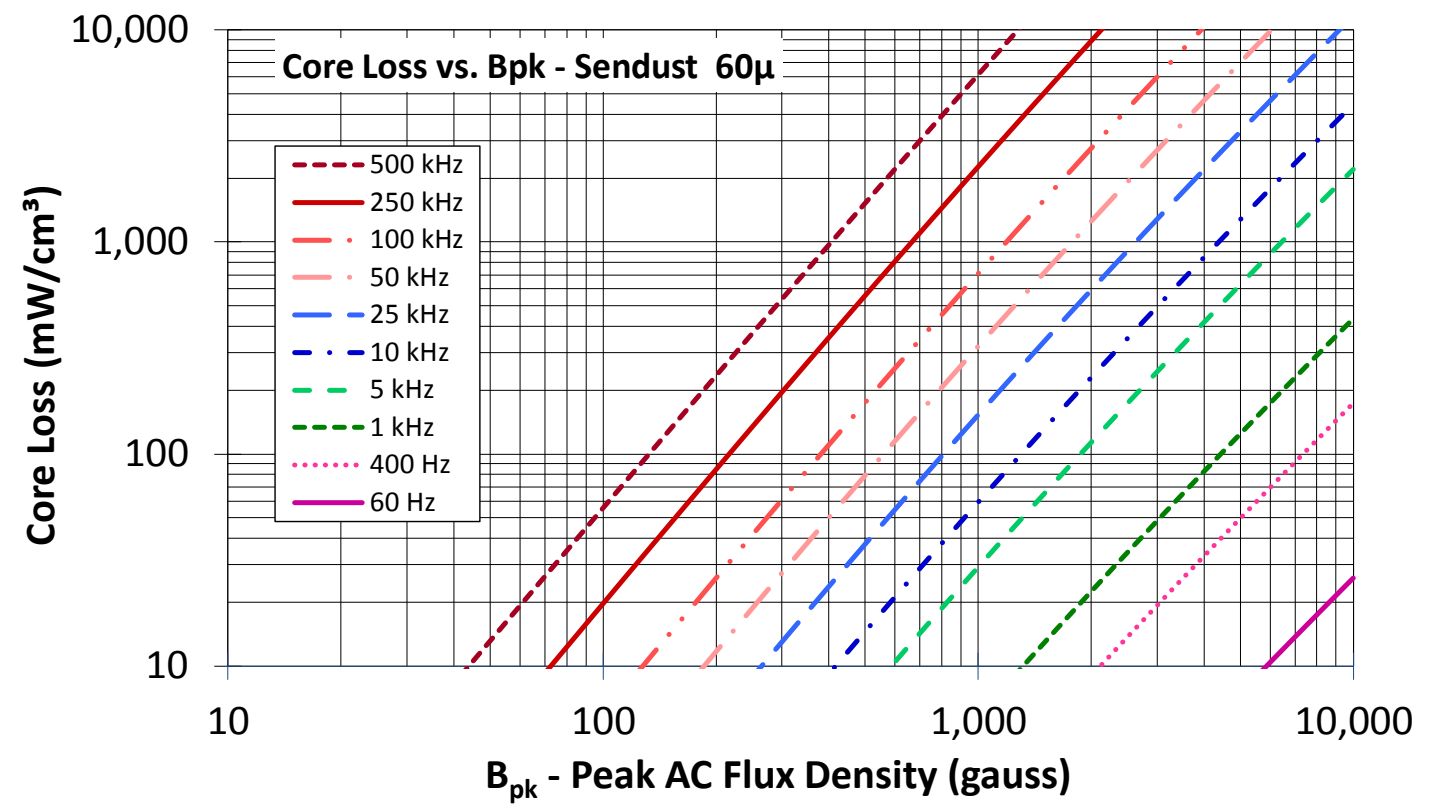
**Part Number:** EQMS-500320160-060

Revision 20190529 - Generated 2019-May-29



<b>A</b>	50 ± 0.61 mm	1.969 ± 0.024 in
<b>B</b>	32 ± 0.41 mm	1.260 ± 0.016 in
<b>C</b>	16 ± 0.41 mm	0.630 ± 0.016 in
<b>D</b>	10.1 mm (min.)	0.398 in (min.)
<b>E</b>	20 ± 0.30 mm	0.787 ± 0.012 in
<b>F</b>	43.5 mm (min.)	1.713 in (min.)
<b>Mass</b>	(approximate)	79 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	3.14 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	9.74 cm
	V <sub>e</sub> - Eff. Core Volume	30.6 cm <sup>3</sup>
	WA - Min. Eff. Window Area	2.34 cm <sup>2</sup>
	sa - Surface Area	84.6 cm <sup>2</sup>
mlt - mean length per turn	9.97 cm	
<b>Inductance</b>	μ <sub>i</sub> (reference)	60
	A <sub>L</sub> value (nominal)	243 nH/N <sup>2</sup>
	Test Winding	N=15, #18 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.21 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	120 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	<b>Full Winding</b>	Turns	20	30	47	72	112	174	269	416	644	996	1,542
		Rdc(Ω)	6.5 m	15.6 m	38.8 m	94.5 m	233.7 m	577.4 m	1.4	3.5	8.6	21.1	52.1



**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).

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