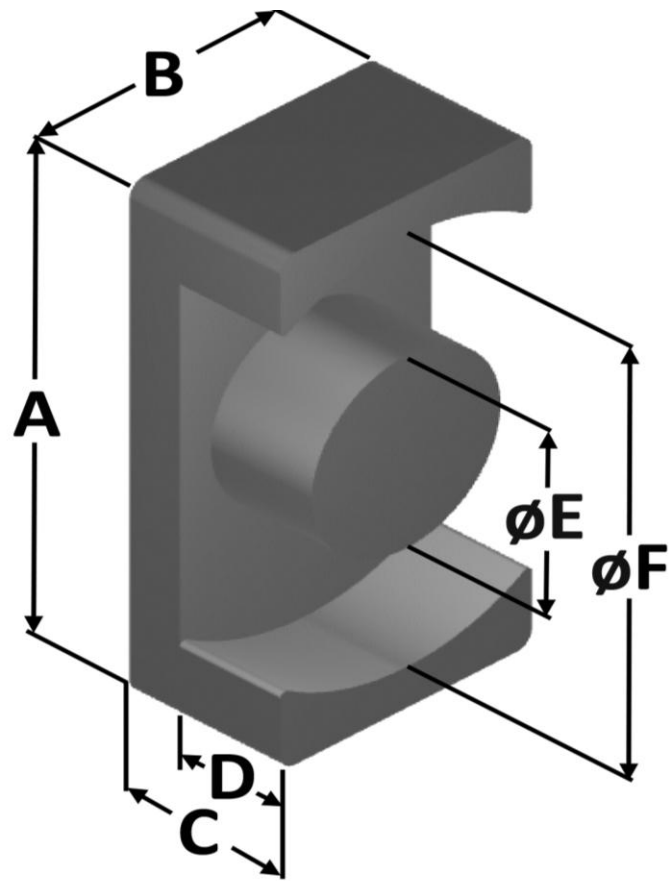




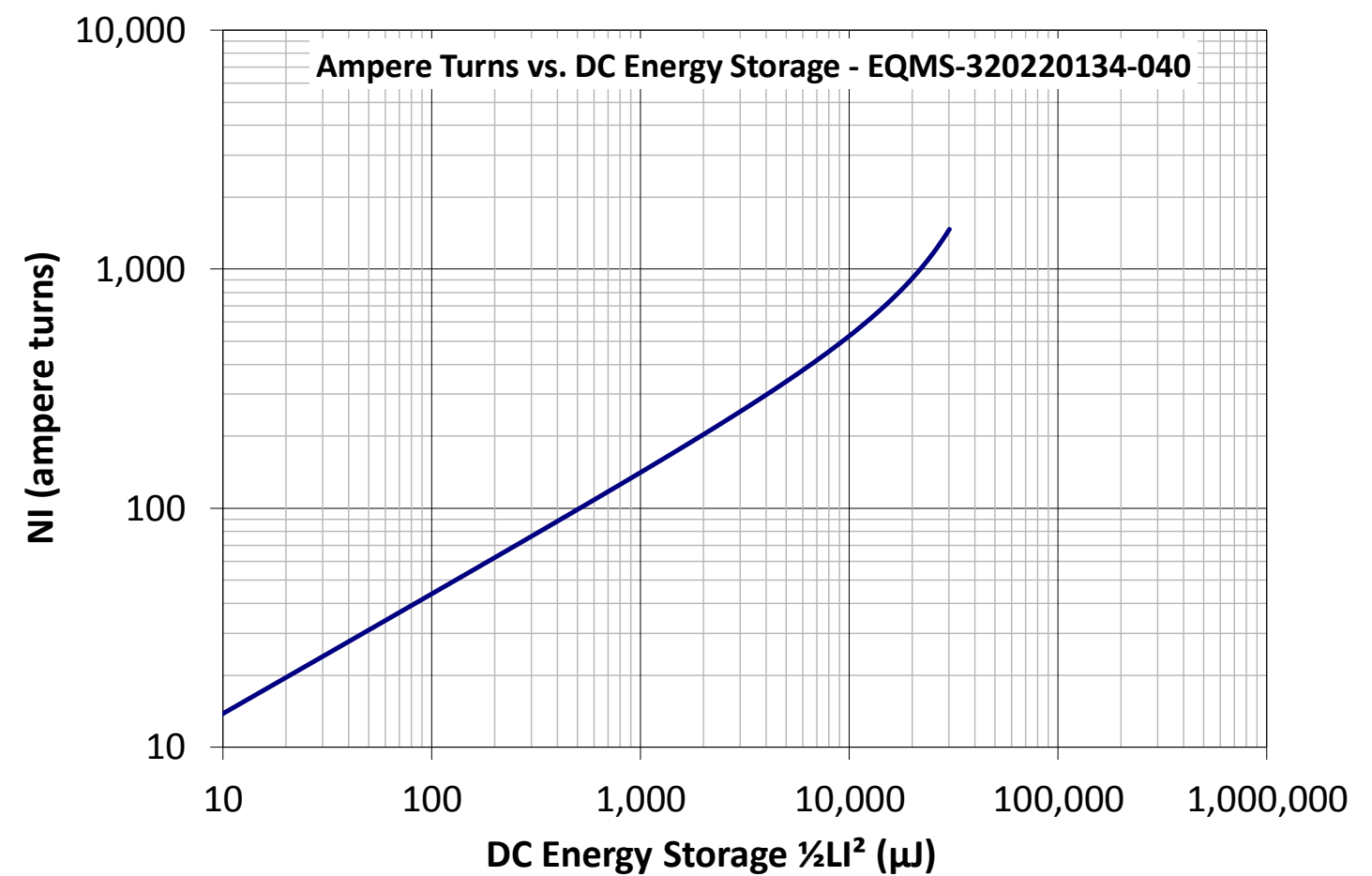
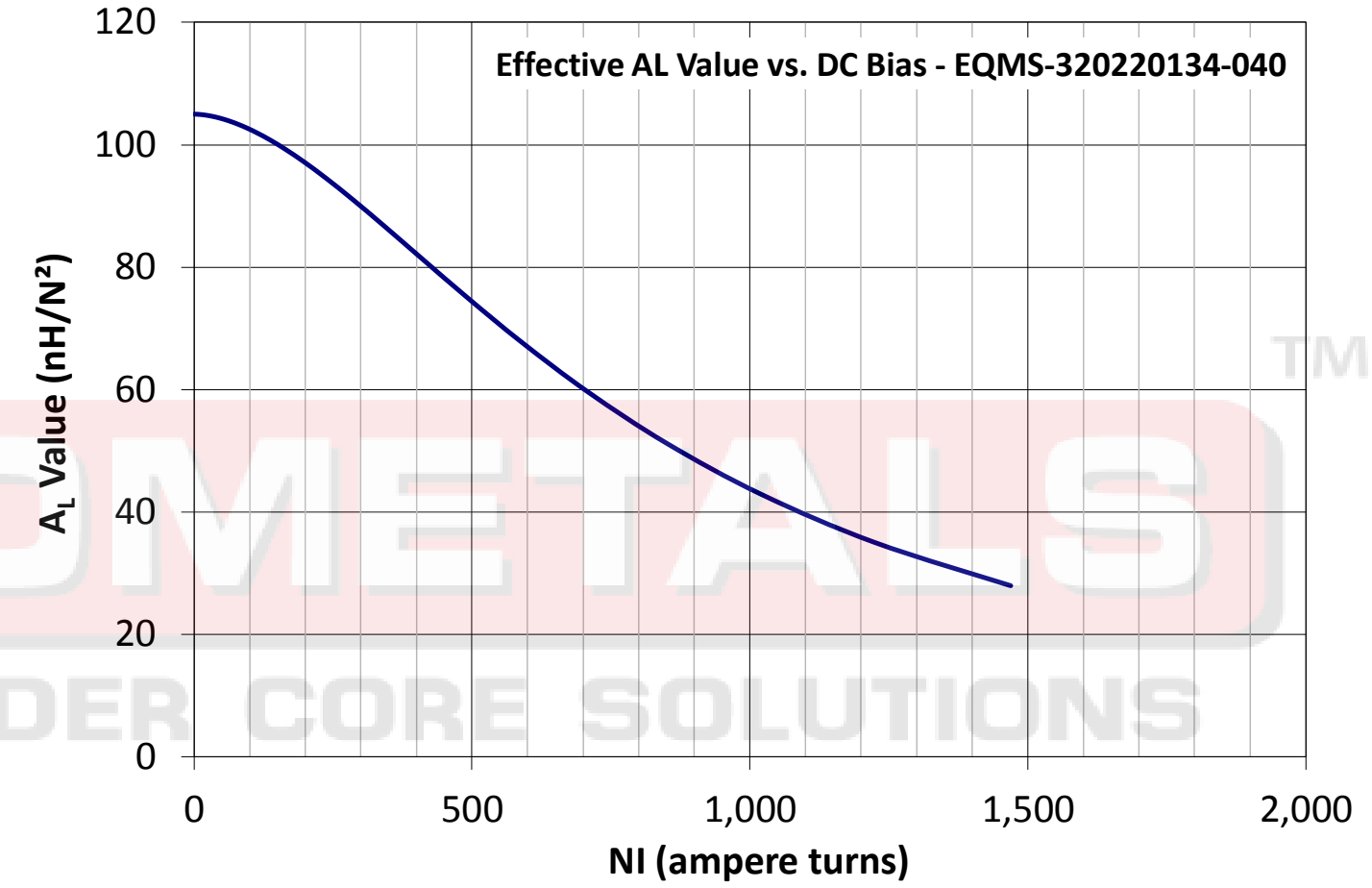
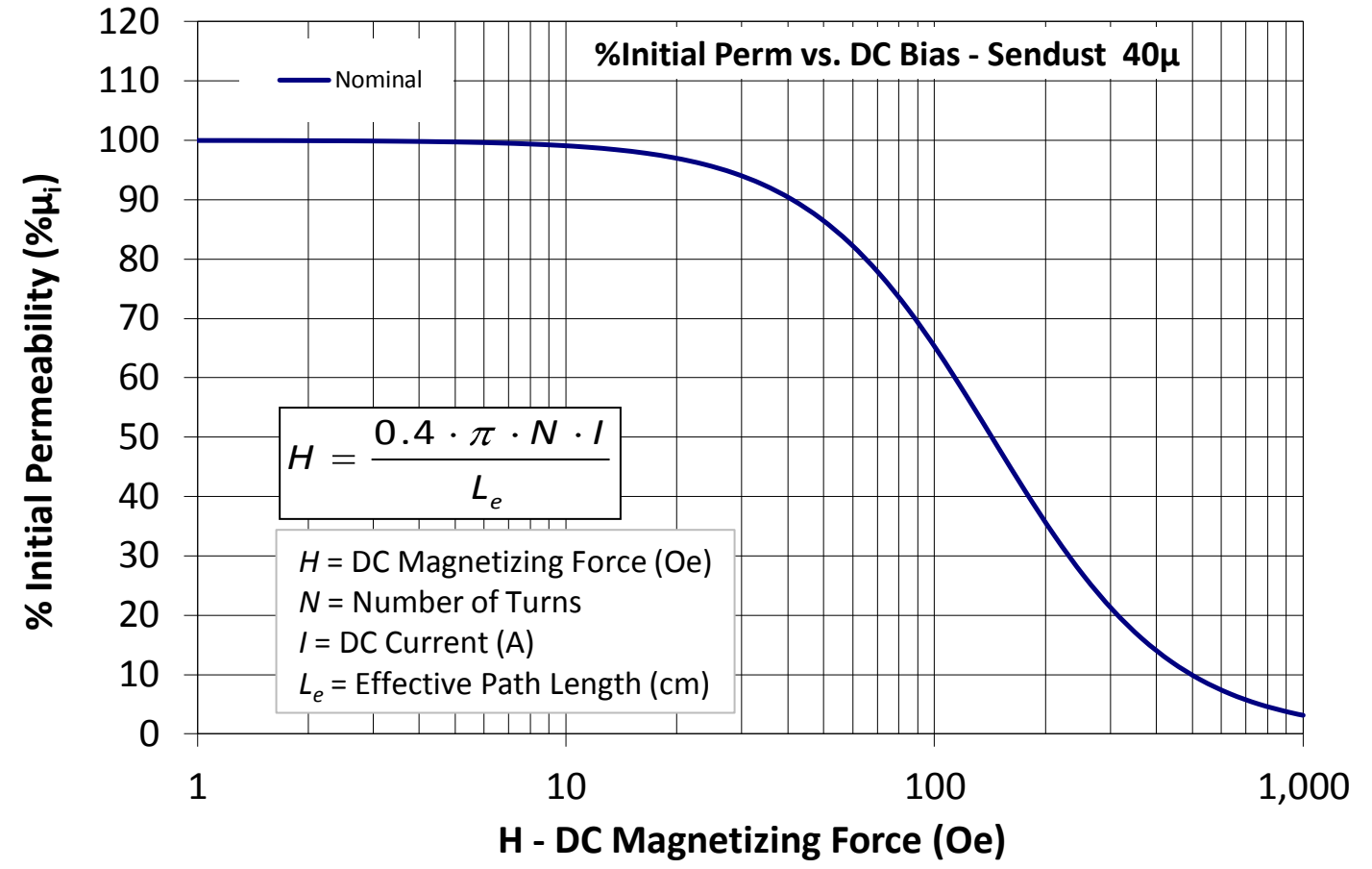
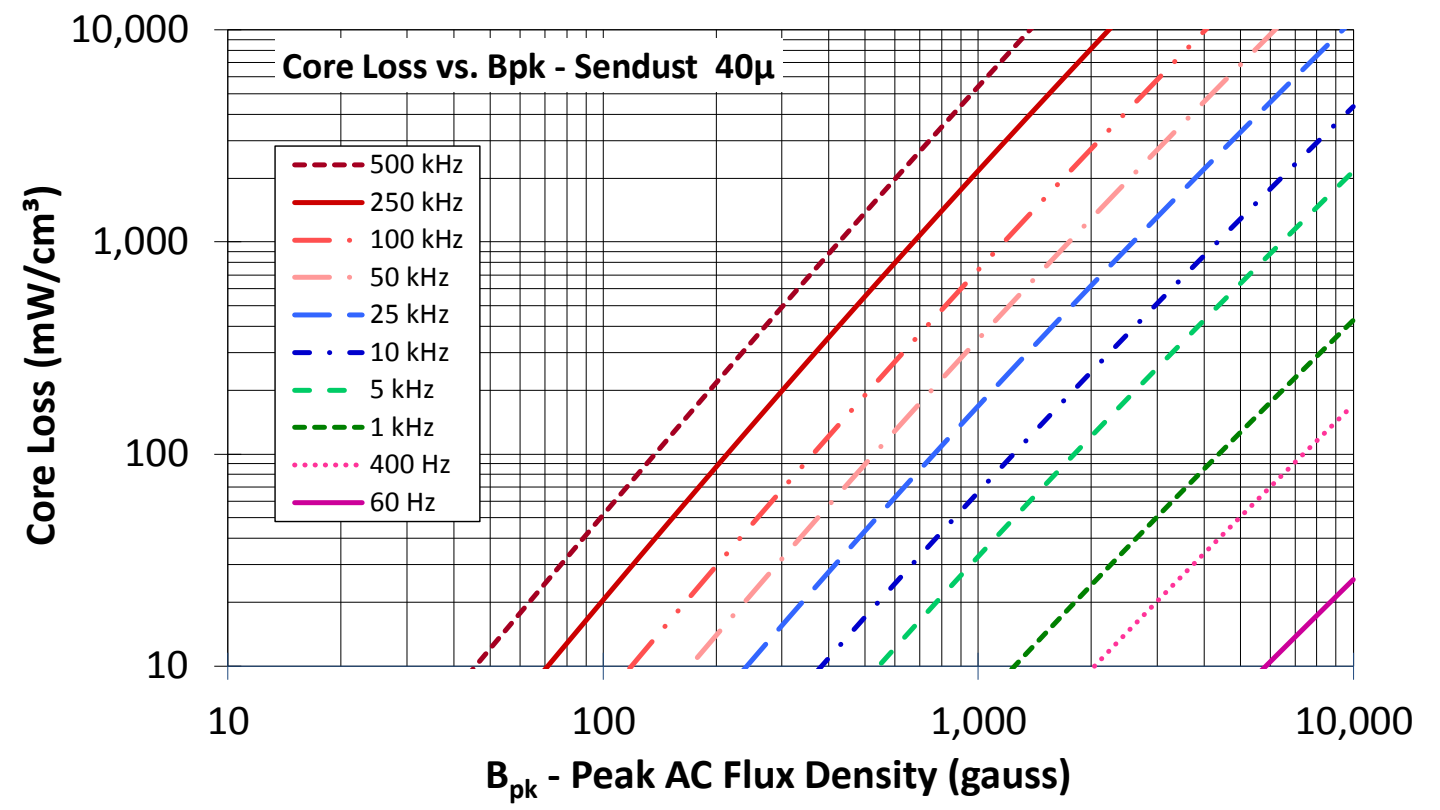
**Part Number:** EQMS-320220134-040

Revision 20190529 - Generated 2019-May-29



<b>A</b>	32 ± 0.41 mm	1.260 ± 0.016 in
<b>B</b>	22 ± 0.30 mm	0.866 ± 0.012 in
<b>C</b>	13.4 ± 0.20 mm	0.528 ± 0.008 in
<b>D</b>	9.4 mm (min.)	0.370 in (min.)
<b>E</b>	13.5 ± 0.20 mm	0.531 ± 0.008 in
<b>F</b>	27.3 mm (min.)	1.075 in (min.)
<b>Mass</b>	(approximate)	28 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	1.52 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	7.27 cm
	V <sub>e</sub> - Eff. Core Volume	11.1 cm <sup>3</sup>
	WA - Min. Eff. Window Area	1.28 cm <sup>2</sup>
	sa - Surface Area	40.4 cm <sup>2</sup>
	mlt - mean length per turn	6.41 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	40
	A <sub>L</sub> value (nominal)	105 nH/N <sup>2</sup>
	Test Winding	N=20, #20 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.14 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=4.96E+08, c=8.10E+06, d=8.55E-15	
	B <sub>pk</sub>	1000 G
	frequency	50 kHz
	Core Loss (nominal)	347 mW/cm <sup>3</sup>
Core Loss (maximum)	400 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=1.58E-06, c=1.76, d=0.00	
	H <sub>DC</sub>	100 Oe
	Percent Initial Perm(nom.)	65.3%
Percent Initial Perm(min.)	57.7%	
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	378 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	AWG	12	14	16	18	20	22	24	26	28	30	32
		mm	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200
	<b>Full Winding</b>	Turns	17	26	40	61	95	147	227	351	544	841	1,302
		Rdc(Ω)	5.7 m	13.8 m	33.7 m	81.8 m	202.6 m	498.5 m	1.2	3.0	7.4	18.2	44.9



**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).

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