



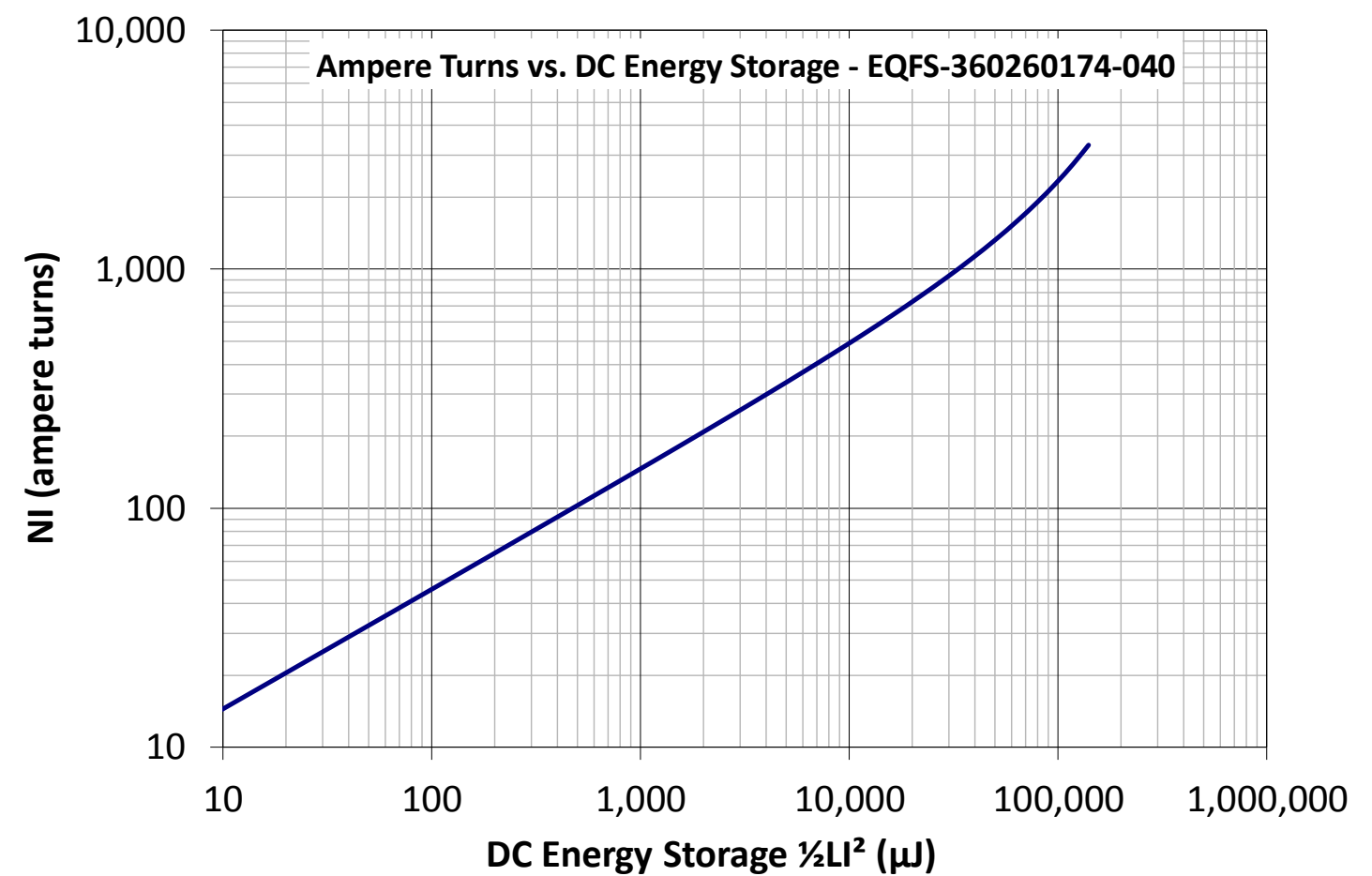
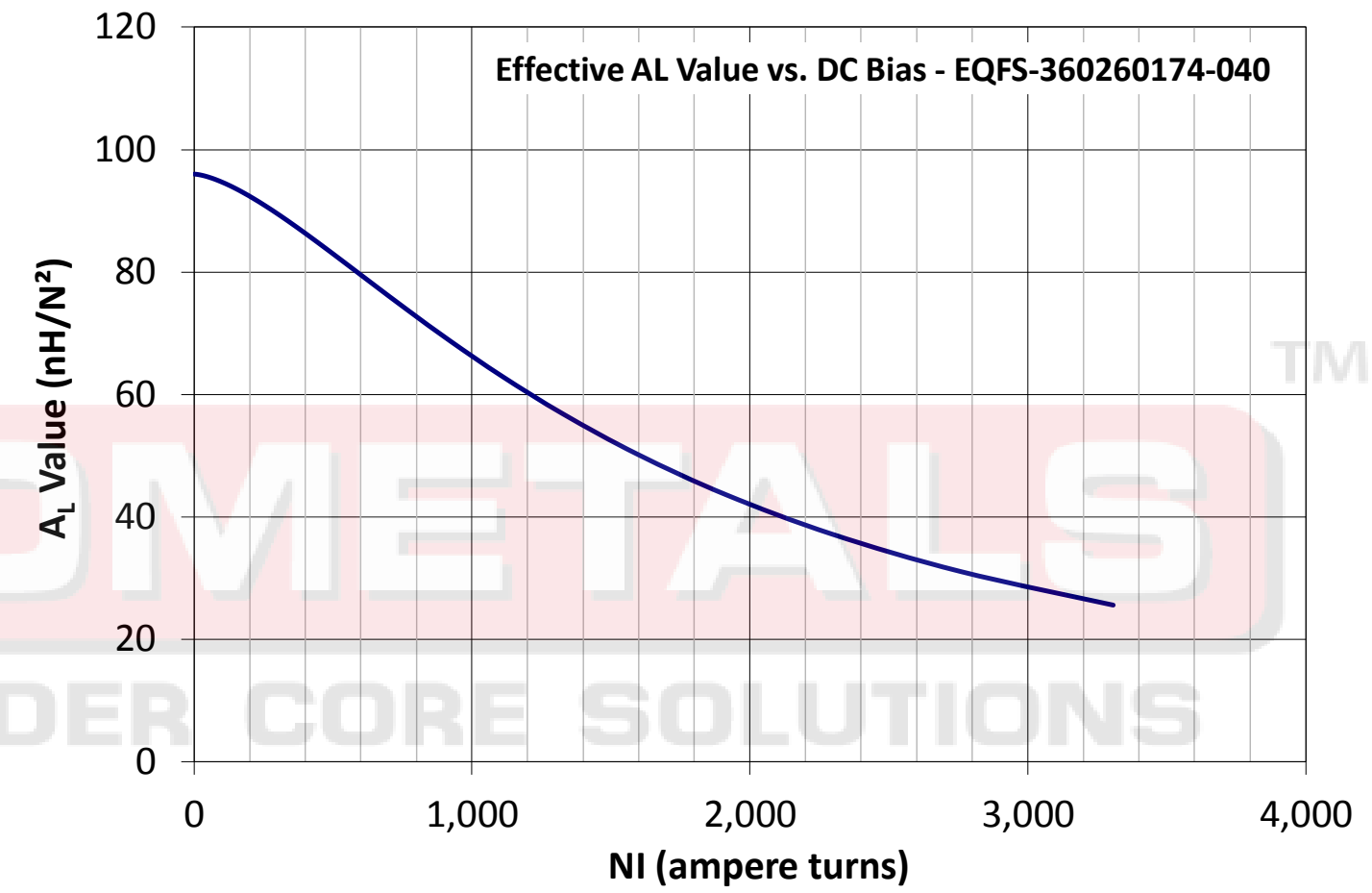
**Part Number:** EQFS-360260174-040

Revision 20190529 - Generated 2019-May-29



<b>A</b>	36 ± 0.51 mm	1.417 ± 0.020 in
<b>B</b>	26 ± 0.30 mm	1.024 ± 0.012 in
<b>C</b>	17.4 ± 0.30 mm	0.685 ± 0.012 in
<b>D</b>	13.1 mm (min.)	0.516 in (min.)
<b>E</b>	14.4 ± 0.20 mm	0.567 ± 0.008 in
<b>F</b>	31.6 mm (min.)	1.244 in (min.)
<b>Mass</b>	(approximate)	49 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	1.81 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	9.47 cm
	V <sub>e</sub> - Eff. Core Volume	17.1 cm <sup>3</sup>
	WA - Min. Eff. Window Area	2.23 cm <sup>2</sup>
	sa - Surface Area	56.7 cm <sup>2</sup>
	mlt - mean length per turn	7.23 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	40
	A <sub>L</sub> value (nominal)	96 nH/N <sup>2</sup>
	Test Winding	N=20, #18 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.16 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=2.97E+08, c=2.78E+06, d=4.56E-14	
	B <sub>pk</sub>	1000 G
	frequency	50 kHz
	Core Loss (nominal)	843 mW/cm <sup>3</sup>
Core Loss (maximum)	969 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=2.72E-06, c=1.52, d=0.00	
	H <sub>DC</sub>	100 Oe
	Percent Initial Perm(nom.)	77.4%
Percent Initial Perm(min.)	72.2%	
<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	192 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	19	29	45	69	107	165	255	395	612	947	1,466
		Rdc(Ω)	4.5 m	10.9 m	26.9 m	65.6 m	161.7 m	396.7 m	975.0 m	2.4	5.9	14.6	35.9



**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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