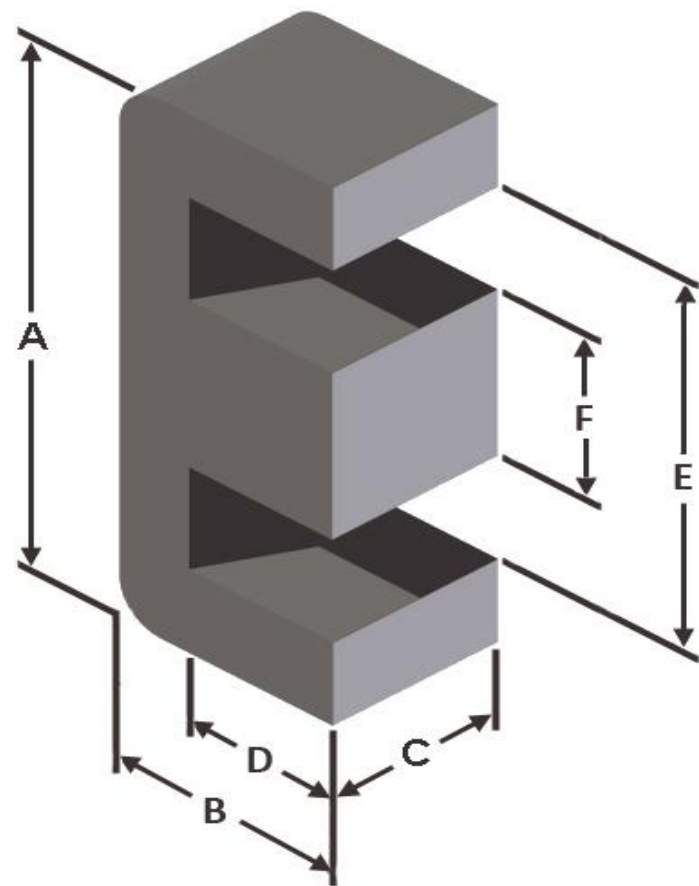
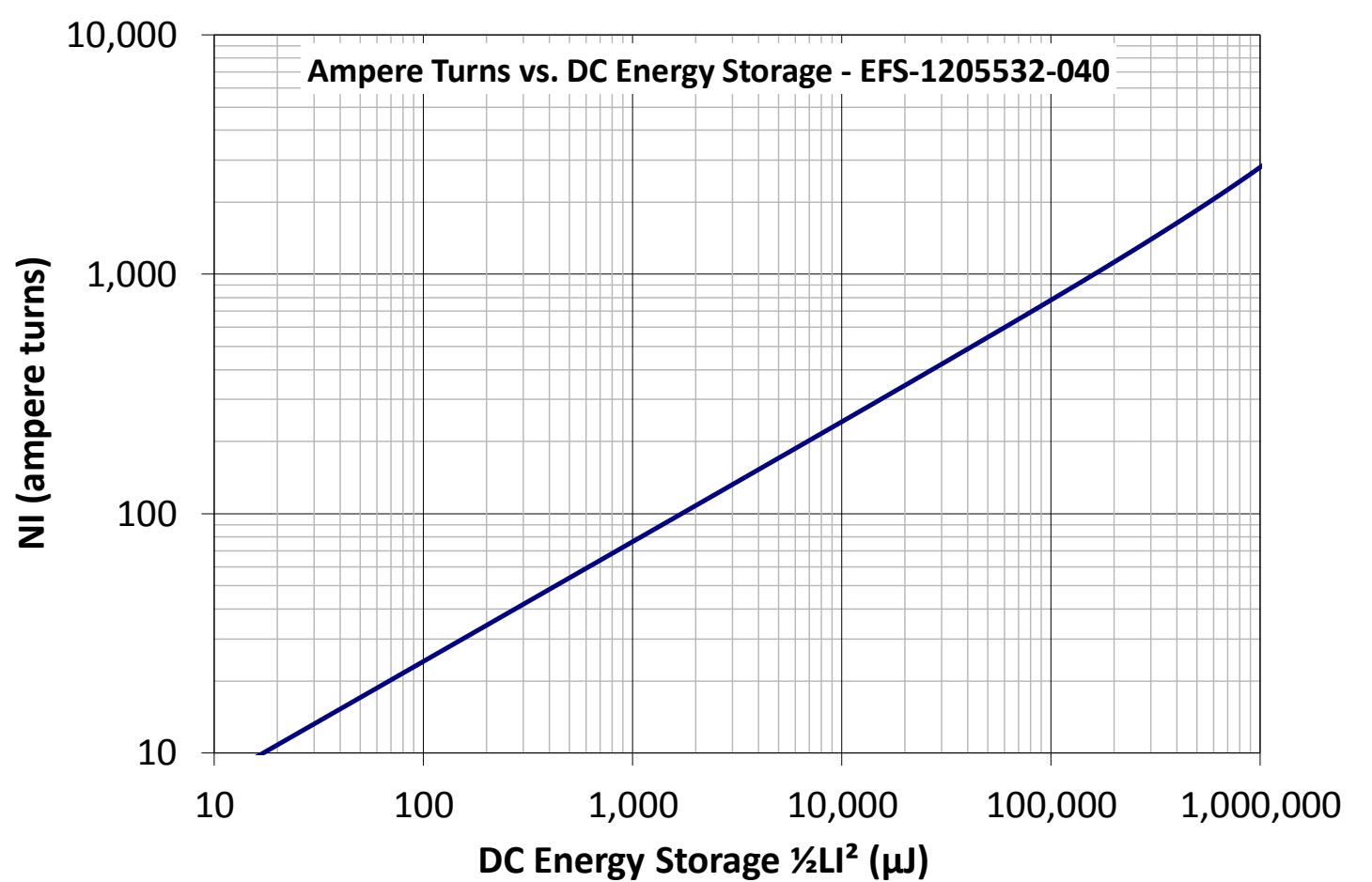
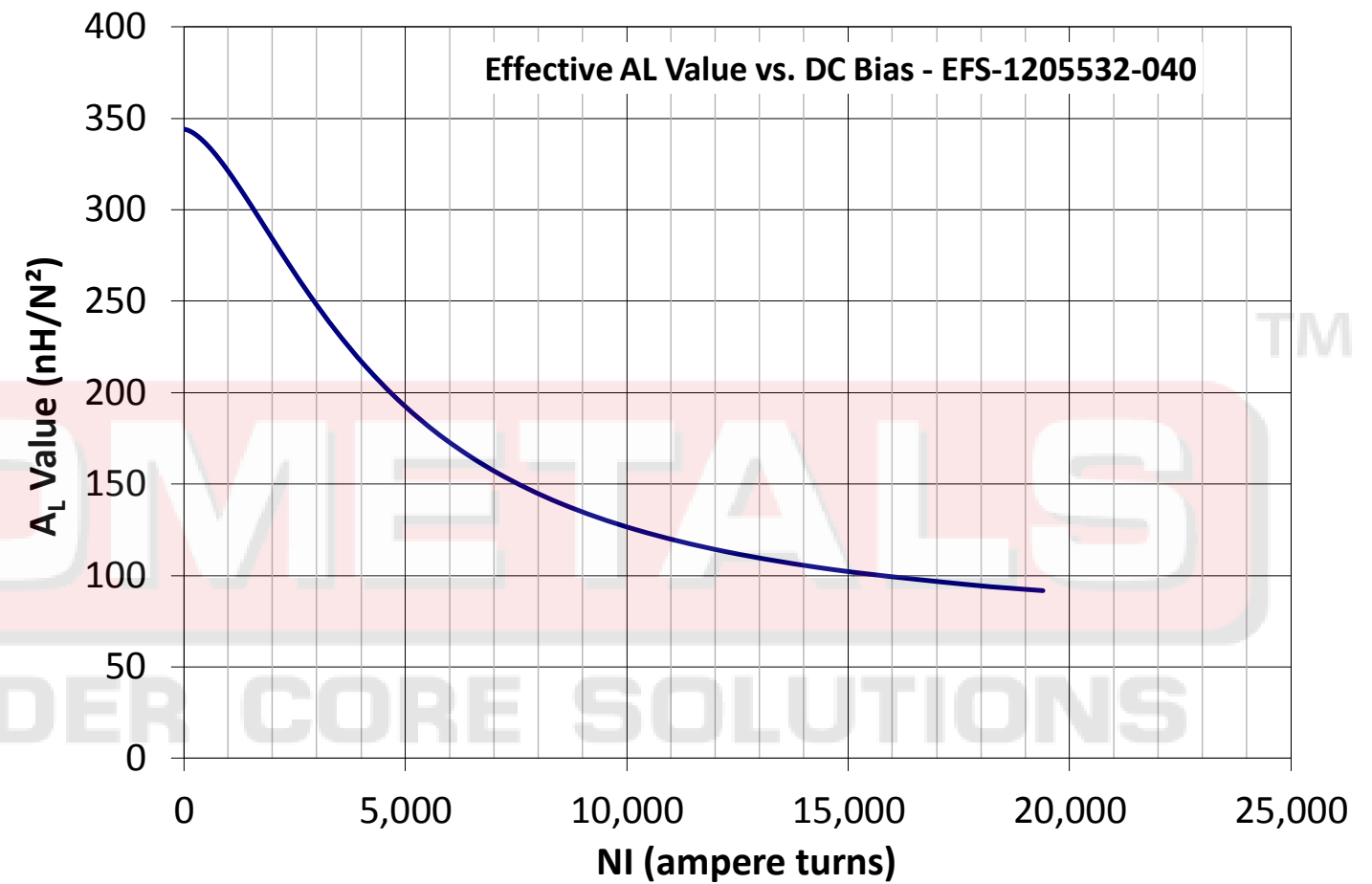
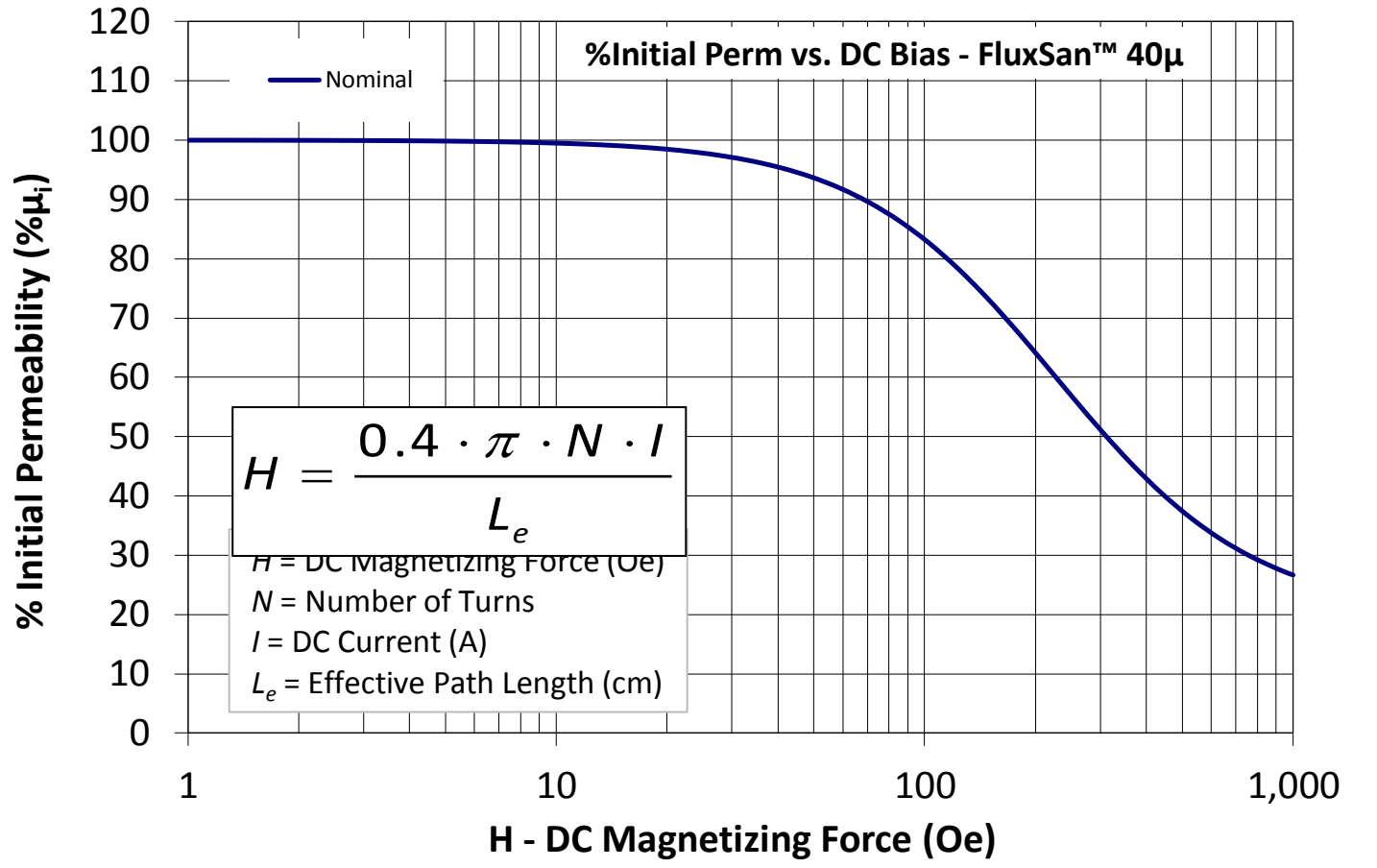
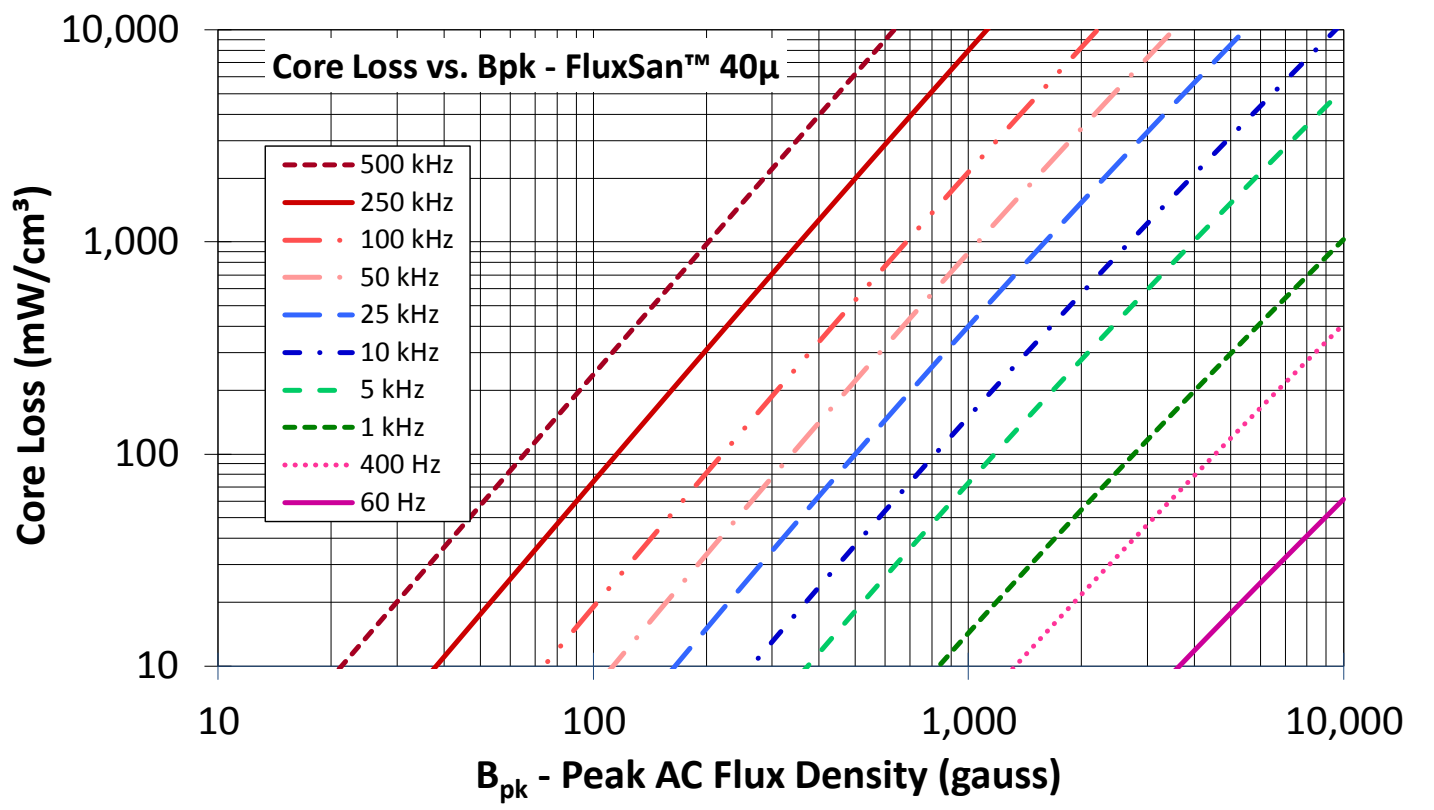




Part Number: EFS-1205532-040
Revision 20190529 - Generated 2019-May-29



| | | | | | | | | | | | | | |
|----------------------------|--|--------------------------|--------|--------|---------|---------|-------|-------|-------|-------|-------|-------|-------|
| A | 120 ± 1.80 mm | 4.724 ± 0.071 in | | | | | | | | | | | |
| B | 55 ± 0.79 mm | 2.165 ± 0.031 in | | | | | | | | | | | |
| C | 31.5 ± 0.64 mm | 1.240 ± 0.025 in | | | | | | | | | | | |
| D | 34.5 mm (min.) | 1.358 in (min.) | | | | | | | | | | | |
| E | 80.4 mm (min.) | 3.165 in (min.) | | | | | | | | | | | |
| F | 39.6 ± 0.71 mm | 1.559 ± 0.028 in | | | | | | | | | | | |
| Mass | (approximate) | 980 grams/half | | | | | | | | | | | |
| Magnetic Dimensions | A _e - Eff. Mag. Cross Section | 12.152 cm ² | | | | | | | | | | | |
| | L _e - Eff. Mag. Path Length | 24.38 cm | | | | | | | | | | | |
| | V _e - Eff. Core Volume | 318 cm ³ | | | | | | | | | | | |
| | WA - Min. Eff. Window Area | 13.8 cm ² | | | | | | | | | | | |
| | sa - Surface Area | 470 cm ² | | | | | | | | | | | |
| | mlt - mean length per turn | 22.4 cm | | | | | | | | | | | |
| Inductance | μ _i (reference) | 40 | | | | | | | | | | | |
| | A _L value (nominal) | 344 nH/N ² | | | | | | | | | | | |
| | Test Winding | N=100, #14 AWG | | | | | | | | | | | |
| | Frequency | 10 kHz | | | | | | | | | | | |
| | Voltage on Agilent 4284A | 5.4 V | | | | | | | | | | | |
| | A _L tolerance | ±8% | | | | | | | | | | | |
| Core Loss | $\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$ | | | | | | | | | | | | |
| | where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.00E+06, b=2.70E+08, c=3.23E+06, d=7.09E-14 | | | | | | | | | | | | |
| | B _{pk} | 1000 G | | | | | | | | | | | |
| | frequency | 50 kHz | | | | | | | | | | | |
| | Core Loss (nominal) | 889 mW/cm ³ | | | | | | | | | | | |
| | Core Loss (maximum) | 1,022 mW/cm ³ | | | | | | | | | | | |
| DC Saturation | $\% \mu_i = \frac{1}{a + b \cdot H^c} + d$ | | | | | | | | | | | | |
| | where H expressed in oersteds, and: a=0.01, b=1.93E-06, c=1.62, d=19.99 | | | | | | | | | | | | |
| | H _{DC} | 100 Oe | | | | | | | | | | | |
| | Percent Initial Perm.(nom.) | 83.3% | | | | | | | | | | | |
| Coating/Pkg | Coating Type: | None | | | | | | | | | | | |
| | Voltage Breakdown (min.) | N/A | | | | | | | | | | | |
| | Limit | N/A | | | | | | | | | | | |
| | Package Quantity | 16 Halves/Box | | | | | | | | | | | |
| Winding Table | Wire Size | AWG | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
| | | 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 | 75 | 115 | 179 | 276 | 428 | 662 | 1,025 | 1,587 | 2,456 | 3,801 | 5,882 |
| | | Rdc(Ω) | 34.5 m | 84.2 m | 208.3 m | 510.9 m | 1.3 | 3.1 | 7.6 | 18.8 | 46.3 | 113.8 | 280.2 |



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.