



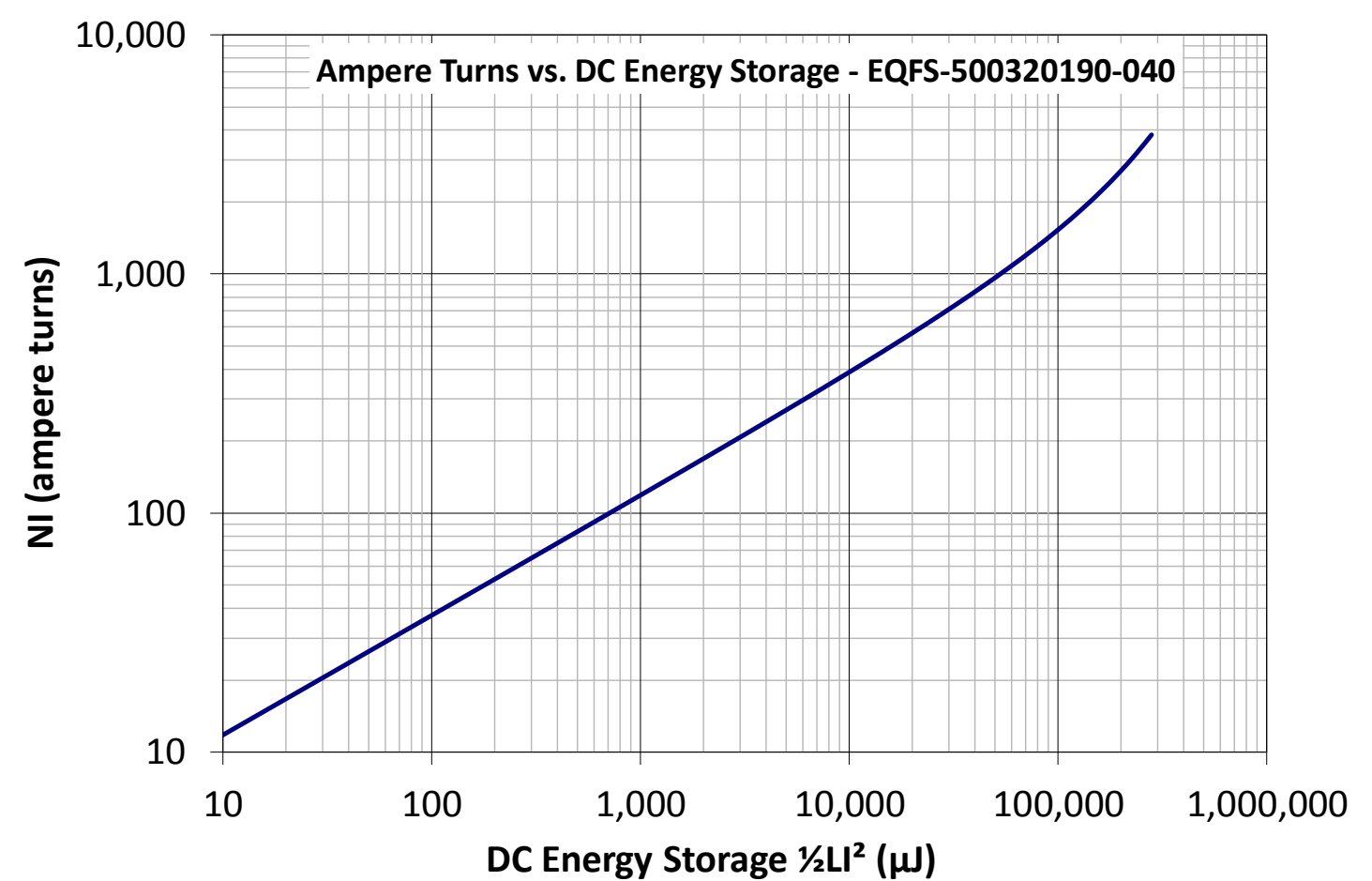
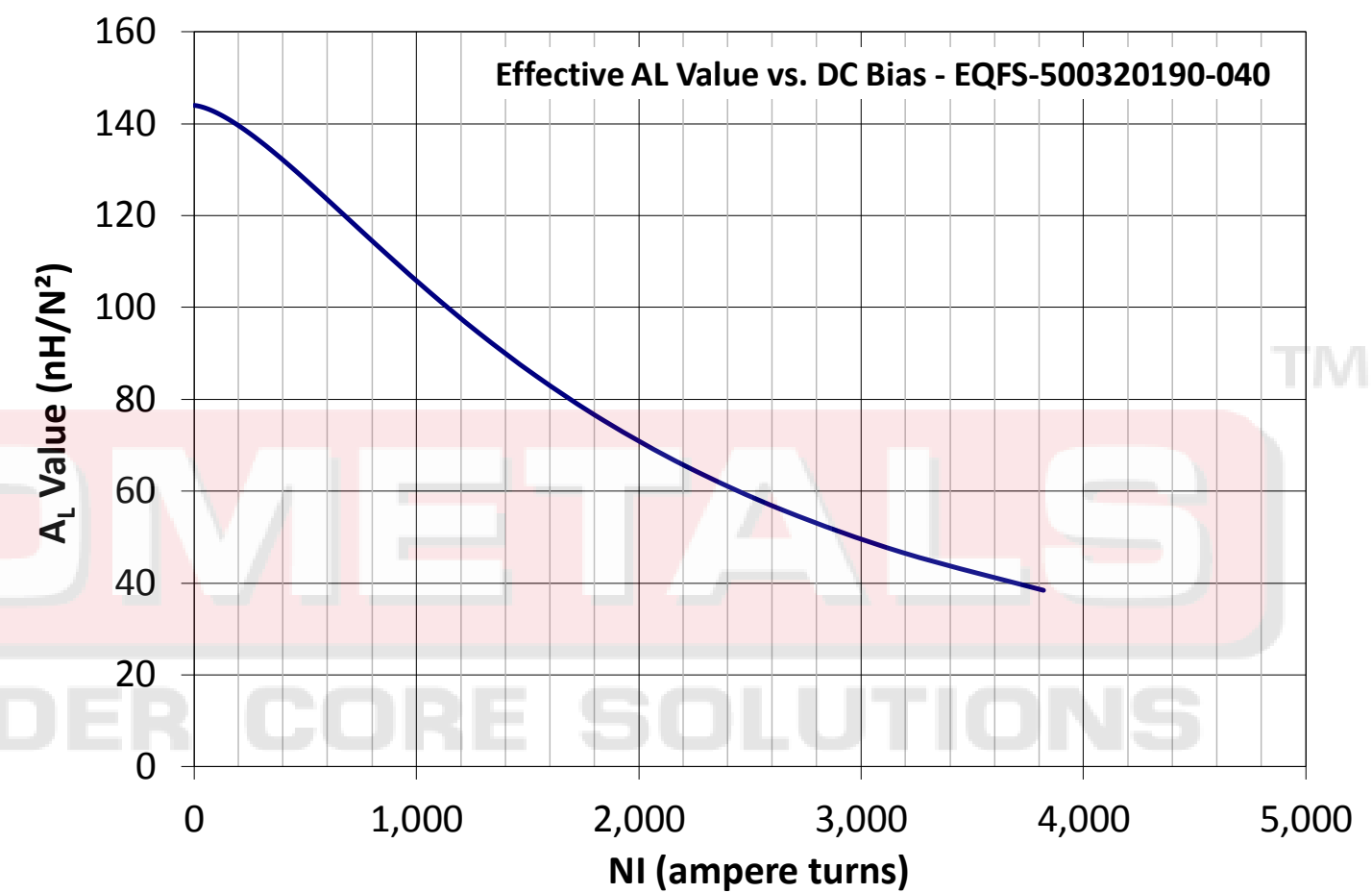
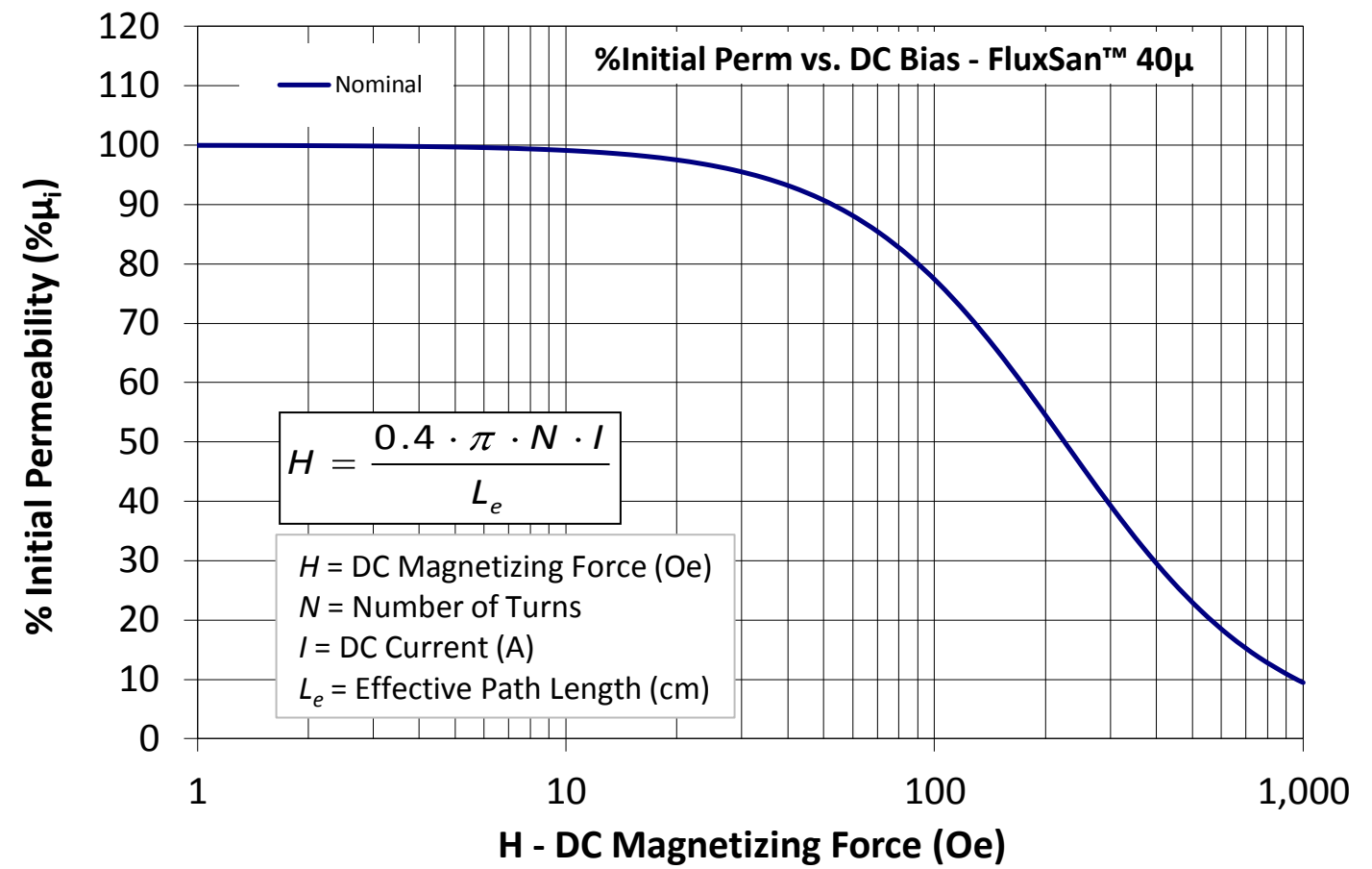
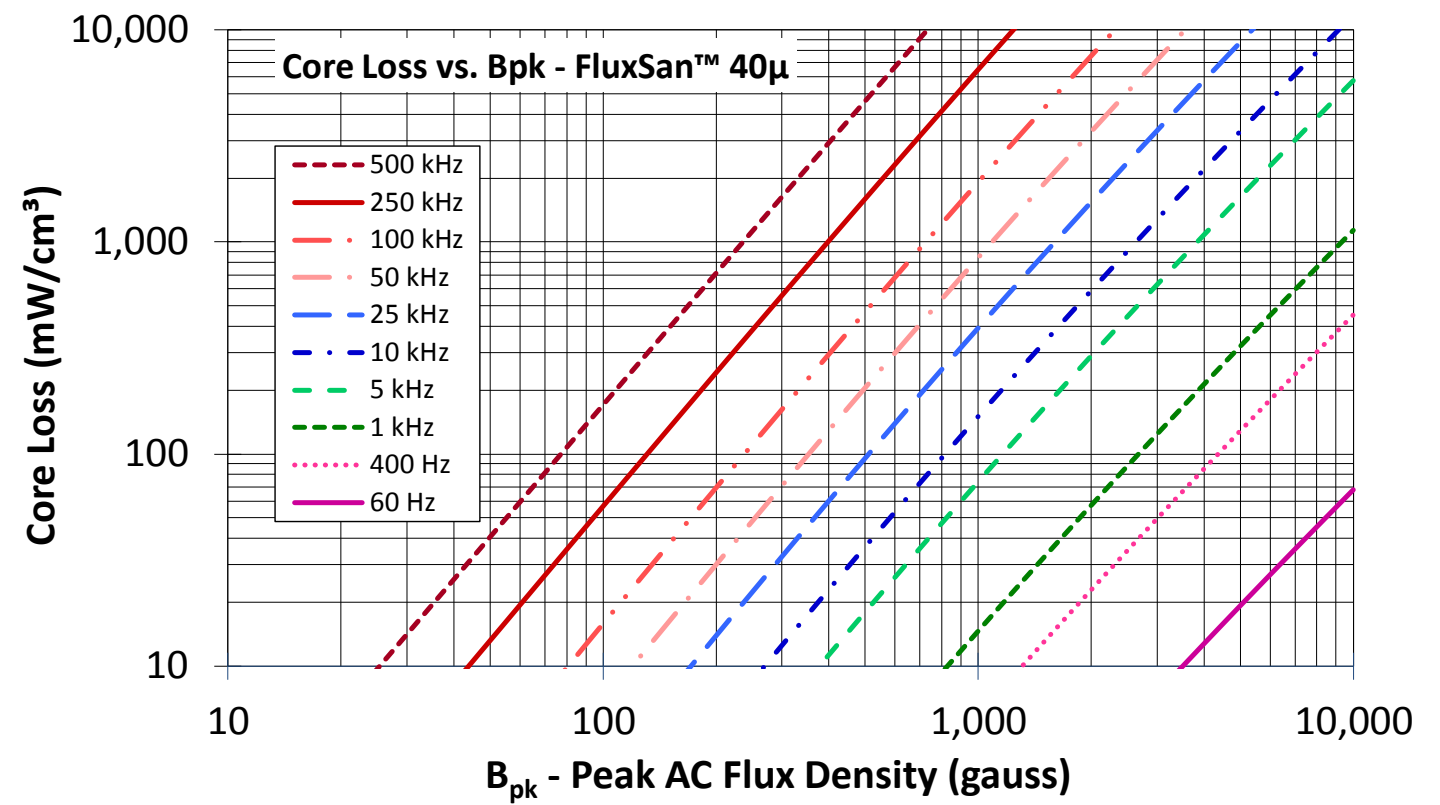
Part Number: EQFS-500320190-040

Revision 20190529 - Generated 2019-May-29



A	50 ± 0.61 mm	1.969 ± 0.024 in
B	32 ± 0.41 mm	1.260 ± 0.016 in
C	19 ± 0.41 mm	0.748 ± 0.016 in
D	13.1 mm (min.)	0.516 in (min.)
E	20 ± 0.30 mm	0.787 ± 0.012 in
F	43.5 mm (min.)	1.713 in (min.)
Mass	(approximate)	99 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	3.14 cm ²
	L _e - Eff. Mag. Path Length	10.94 cm
	V _e - Eff. Core Volume	34.4 cm ³
	WA - Min. Eff. Window Area	3.04 cm ²
	sa - Surface Area	93.1 cm ²
	mlt - mean length per turn	9.97 cm
Inductance	μ _i (reference)	40
	A _L value (nominal)	144 nH/N ²
	Test Winding	N=20, #18 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.28 V
	A _L tolerance	±12%
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=2.97E+08, c=2.78E+06, d=4.56E-14	
	B _{pk}	1000 G
	frequency	50 kHz
	Core Loss (nominal)	843 mW/cm ³
Core Loss (maximum)	969 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=2.72E-06, c=1.52, d=0.00	
	H _{DC}	100 Oe
	Percent Initial Perm(nom.)	77.4%
Percent Initial Perm(min.)	72.2%	
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	96 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	16	25	39	61	94	146	225	349	539	835	1,292
		Rdc(Ω)	3.3 m	8.2 m	20.2 m	50.3 m	123.3 m	304.7 m	746.7 m	1.8	4.5	11.1	27.4



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.

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