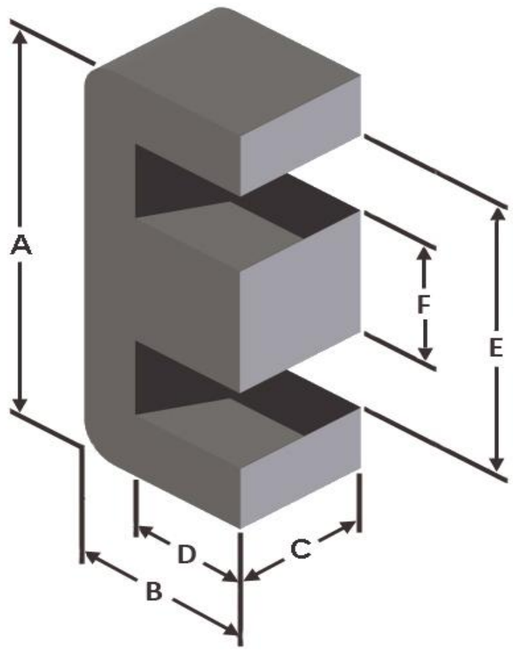
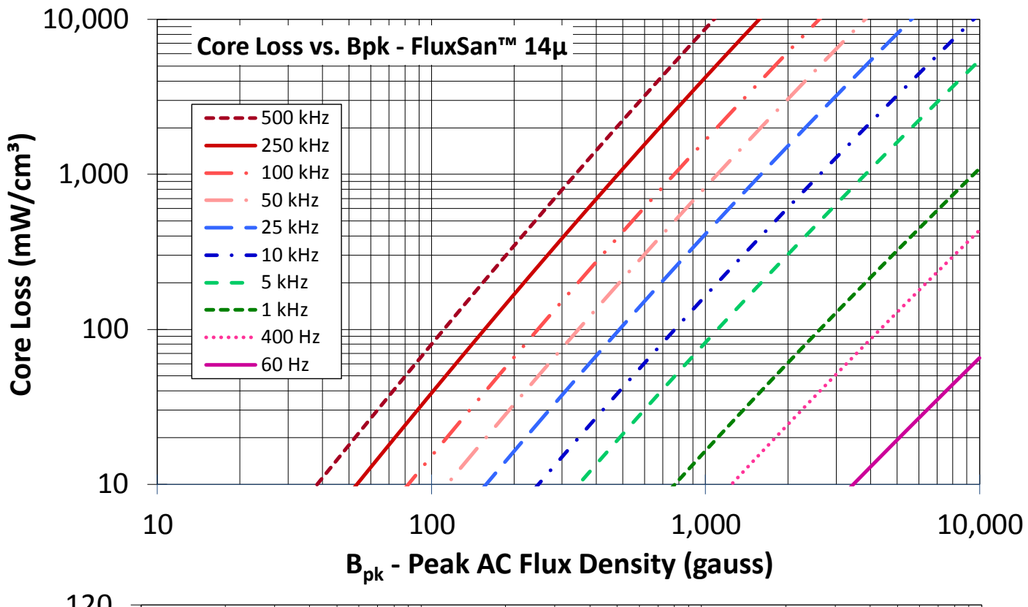
MICROMETALS™
POWDER CORE SOLUTIONS

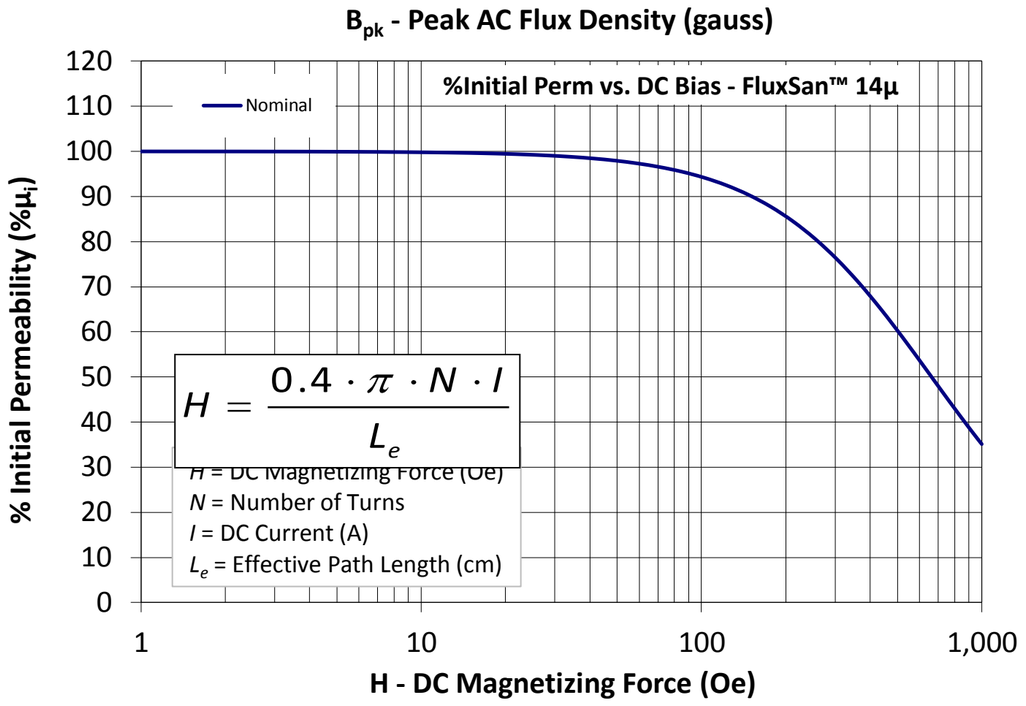
Part Number:	EFS-0130604-014

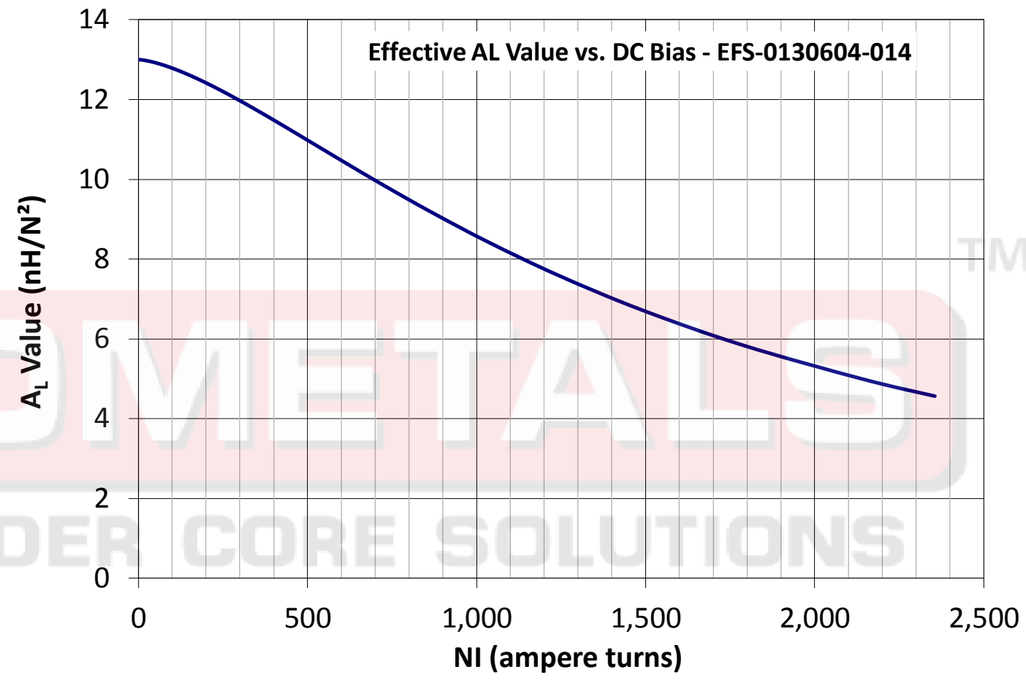
Revision 20190529 - Generated 2019-May-29

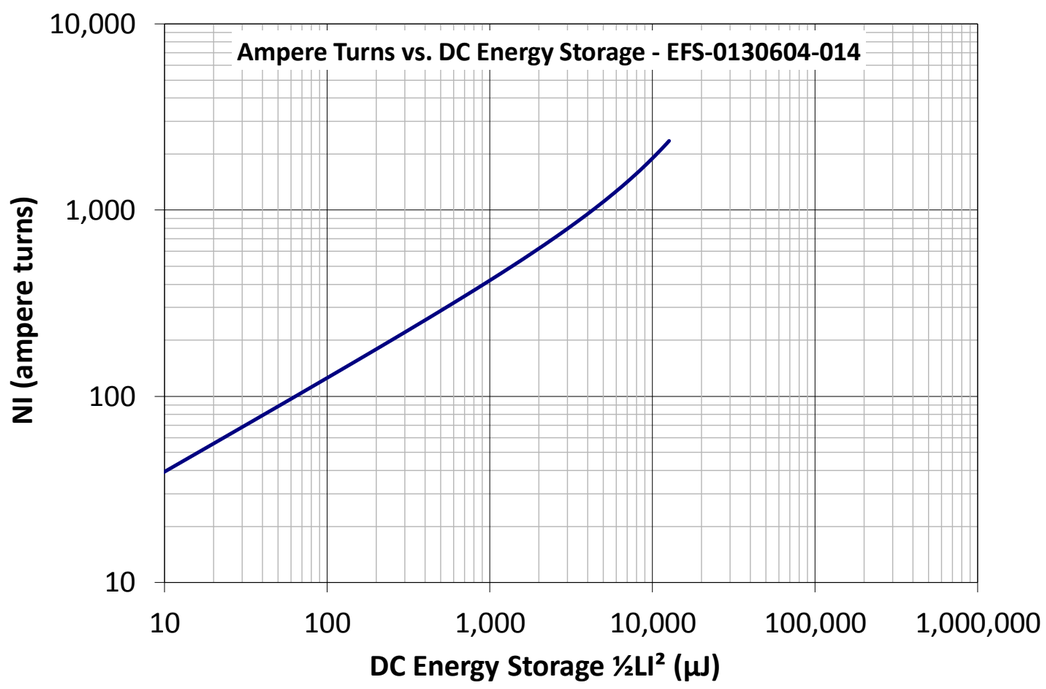


A	12.7 ± 0.25 mm	0.500 ± 0.010 in
B	6.4 ± 0.10 mm	0.252 ± 0.004 in
C	3.56 ± 0.15 mm	0.140 ± 0.006 in
D	4.42 mm (min.)	0.174 in (min.)
E	8.89 mm (min.)	0.350 in (min.)
F	3.56 ± 0.13 mm	0.140 ± 0.005 in
Mass	(approximate)	1.1 grams/half
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.130 cm²
	L_e - Eff. Mag. Path Length	2.96 cm
	V_e - Eff. Core Volume	0.385 cm³
	WA - Min. Eff. Window Area	0.230 cm²
	sa - Surface Area	6.01 cm²
	mlt - mean length per turn	2.49 cm
Inductance	μ_i(reference)	14
	A_L value (nominal)	13 nH/N²
	Test Winding	N=100, #28 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.058 V
	A_L tolerance	±8%
Core Loss	Core Loss(mW/cm³)= $\frac{f}{\frac{a}{Bpk^{3}}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}}+d\cdot Bpk^{2}\cdot f^{2}$	
	where B_{pk} expressed in gauss, f expressed in hertz, and:	
	a=1.00E+06, b=2.03E+08, c=3.14E+06, d=2.04E-15	
	B_{pk}	300 G
	frequency	100 kHz
	Core Loss (nominal)	152 mW/cm³
	Core Loss (maximum)	175 mW/cm³
DC Saturation	$\%\mu_i = \frac{1}{a + b\cdot H^{c}} + d$	
	where H expressed in oersteds, and:	
	a=0.01, b=6.29E-07, c=1.49, d=0.00	
	H_{DC}	200 Oe
	Percent Initial Perm(nom.)	85.6%
	Percent Initial Perm(min.)	81.9%
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	1,500 Halves/Box









Winding Table		AWG	20	22	24	26	28	30	32	34	36	38	40
	Wire Size	mm	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125	0.100	0.080
	Full Winding	Turns	17	26	41	63	98	151	234	363	561	869	1,345
		Rdc(Ω)	14.1 m	34.3 m	85.9 m	209.9 m	519.4 m	1.3	3.1	7.7	19.0	46.9	115.3

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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