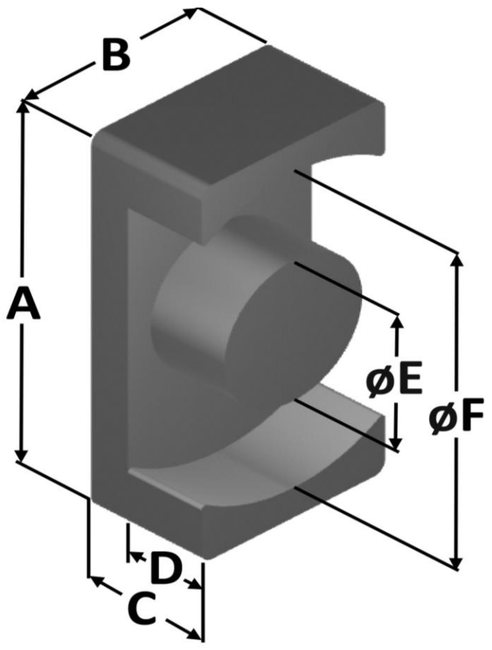
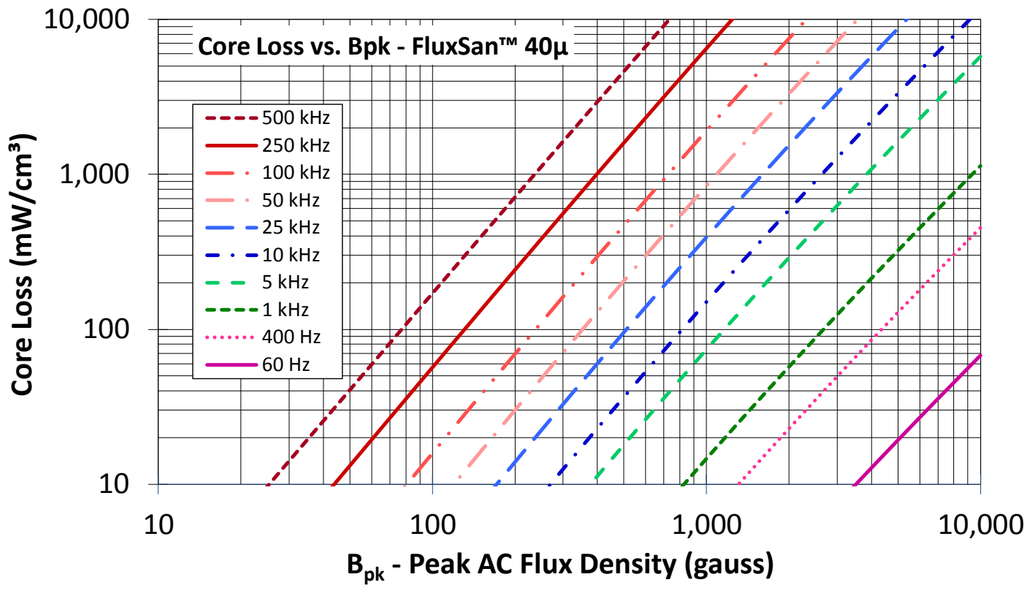
MICROMETALS™
POWDER CORE SOLUTIONS

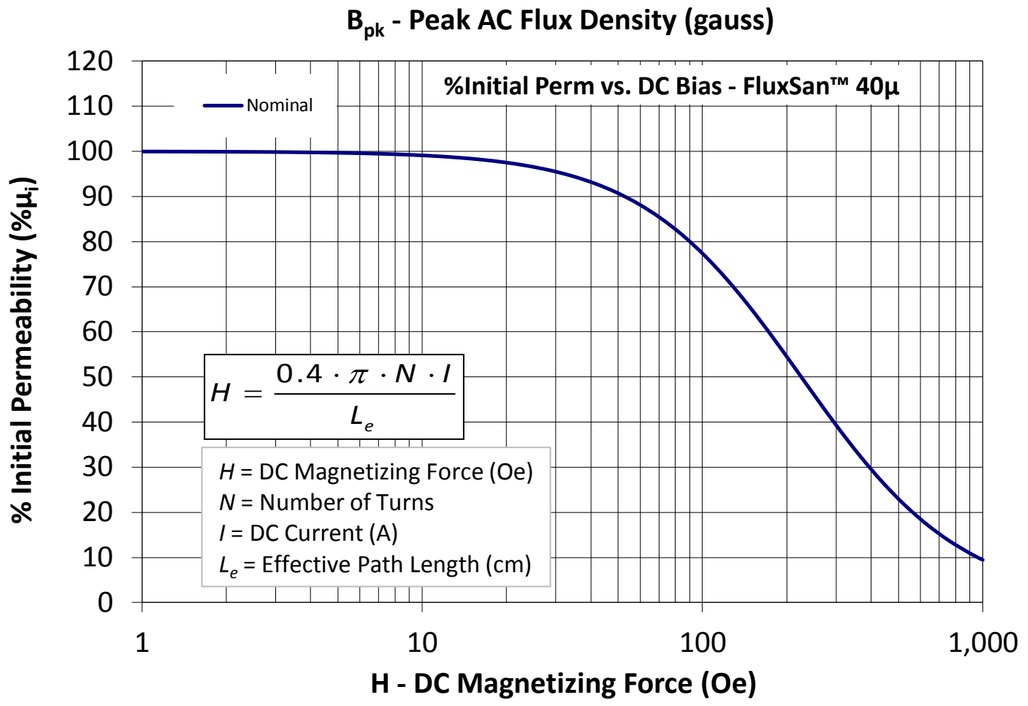
Part Number:	EQFS-265190101-040

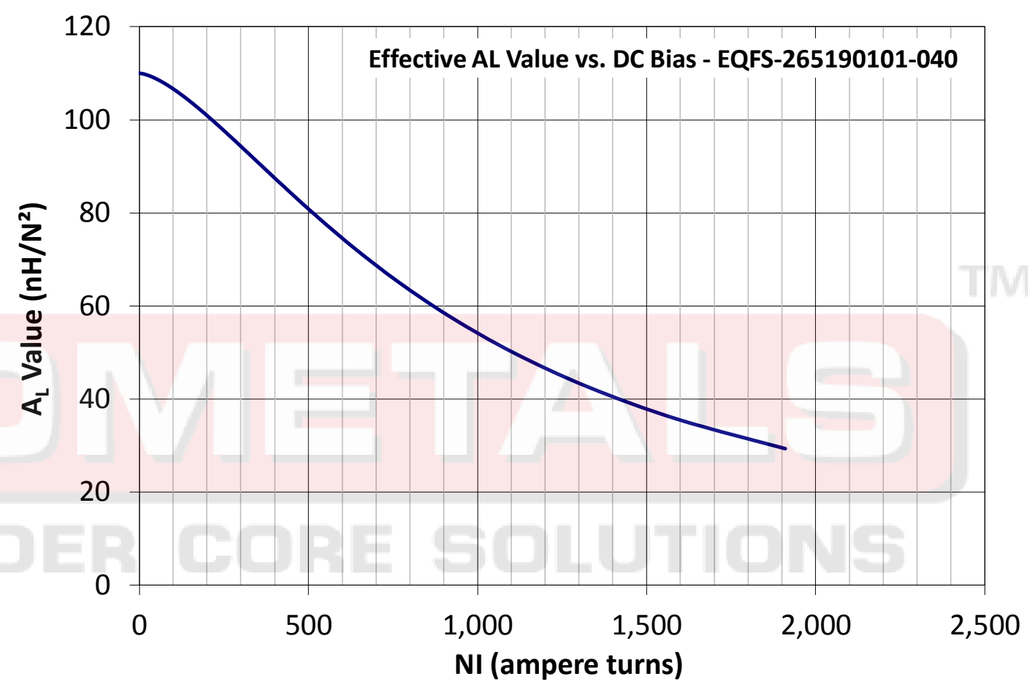
Revision 20190529 - Generated 2019-May-29

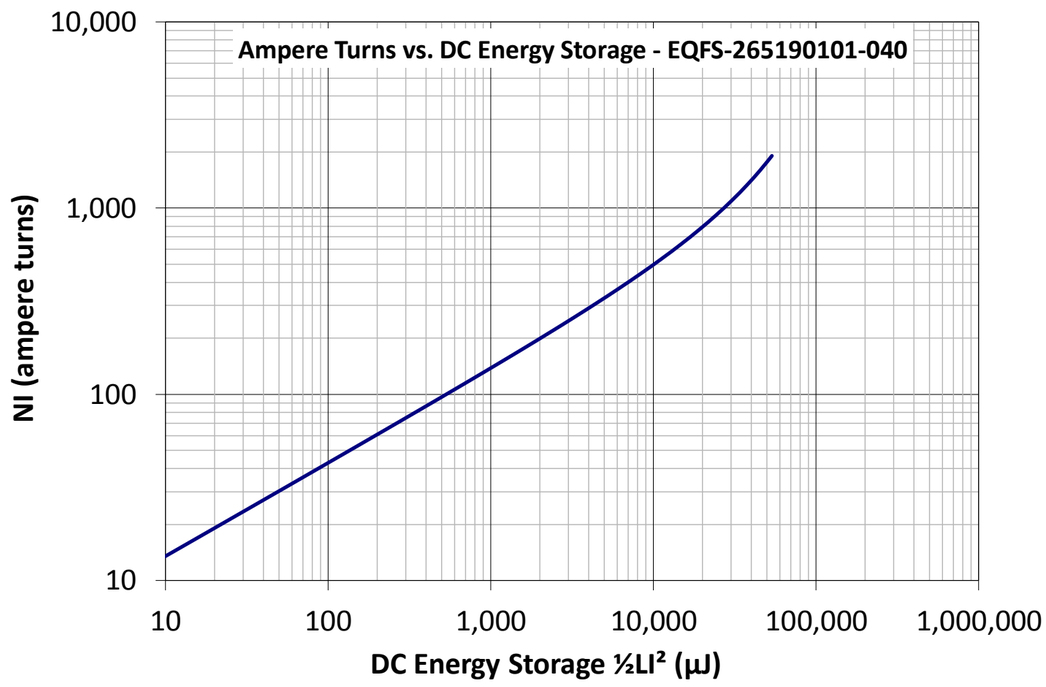


A	26.5 ± 0.30 mm	1.043 ± 0.012 in
B	19 ± 0.20 mm	0.748 ± 0.008 in
C	10.1 ± 0.20 mm	0.398 ± 0.008 in
D	6.5 mm (min.)	0.256 in (min.)
E	12 ± 0.20 mm	0.472 ± 0.008 in
F	22.3 mm (min.)	0.878 in (min.)
Mass	(approximate)	19 grams/half
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.20 cm²
	L_e - Eff. Mag. Path Length	5.47 cm
	V_e - Eff. Core Volume	6.55 cm³
	WA - Min. Eff. Window Area	0.656 cm²
	sa - Surface Area	26.4 cm²
	mlt - mean length per turn	5.39 cm
Inductance	μ_i(reference)	40
	A_L value (nominal)	110 nH/N²
	Test Winding	N=20, #24 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.11 V
	A_L tolerance	±12%
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=2.97E+08, c=2.78E+06, d=4.56E-14	
	B_{pk}	1000 G
	frequency	50 kHz
	Core Loss (nominal)	843 mW/cm³
	Core Loss (maximum)	969 mW/cm³
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	640 Halves/Box









Winding Table													
Wire Size	AWG	14	16	18	20	22	24	26	28	30	32	34	
	mm	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	
Full Winding	Turns	13	20	31	49	75	117	180	279	432	669	1,035	
	Rdc(Ω)	5.8 m	14.2 m	34.9 m	87.8 m	213.8 m	530.5 m	1.3	3.2	7.9	19.4	47.7	

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.

Micrometals Alloy Powder Cores, A Division of Micrometals, Inc. - 5615 E. La Palma Ave., Anaheim, California 92807 USA
Ph: +1-714-970-9400, Toll Free in USA: +1-800-356-5977, Asia Pacific Sales: +852 3106 3736
www.MicrometalsAPC.com