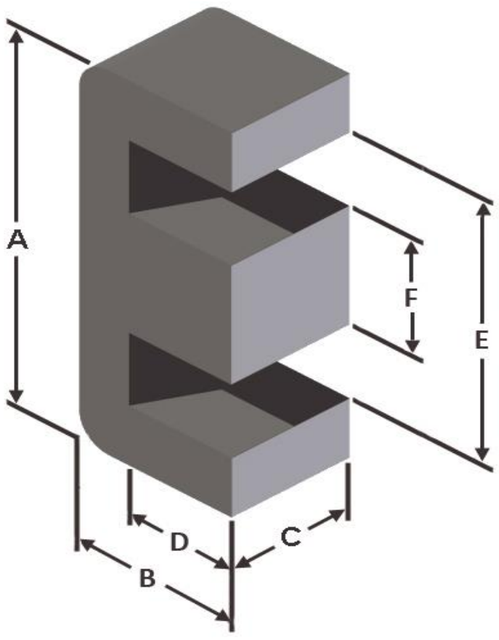
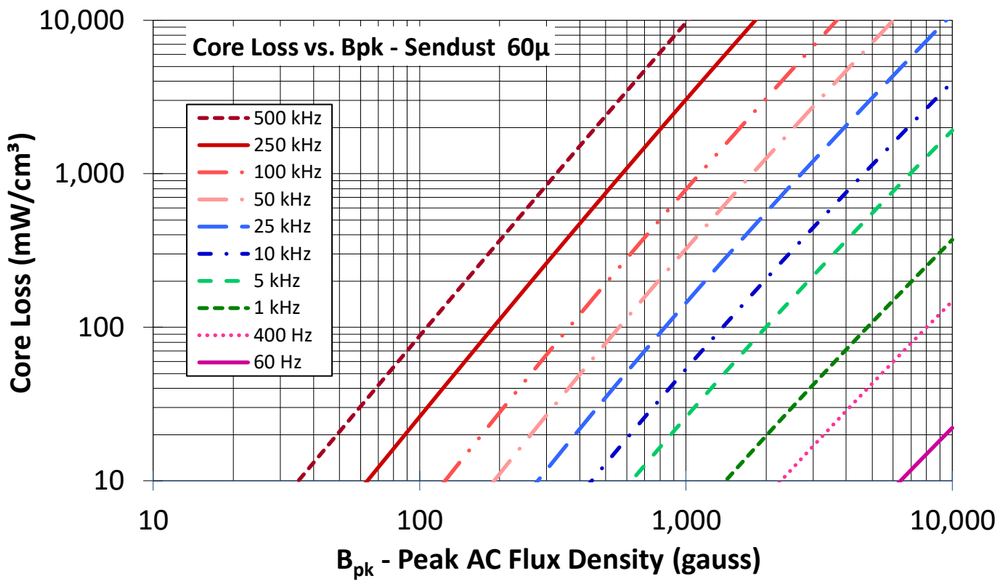
MICROMETALS
ALLOY POWDER CORES

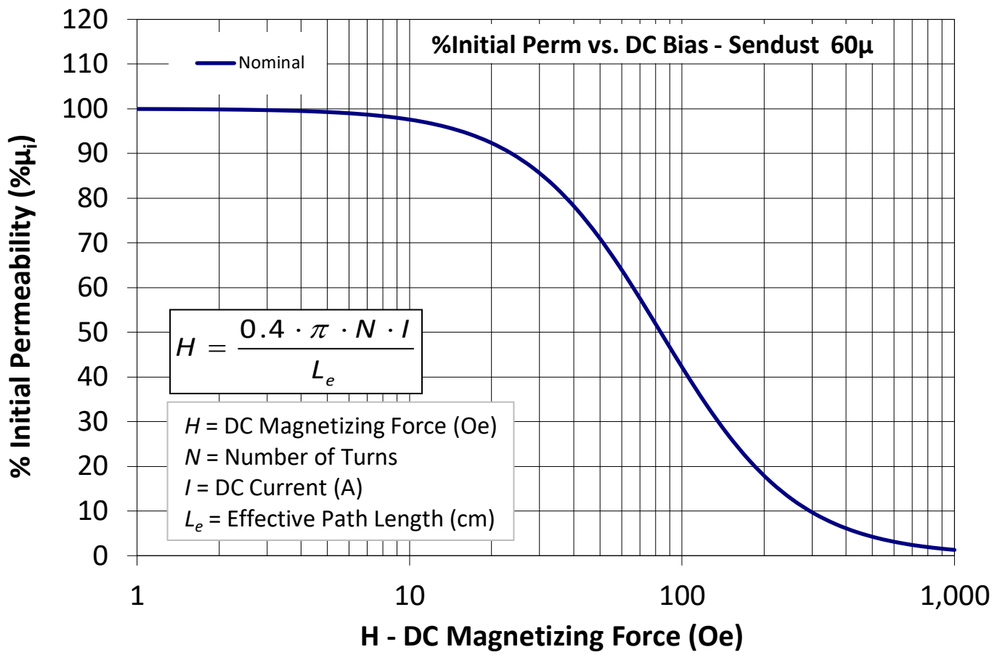
Part Number:	EMS-0351415-060

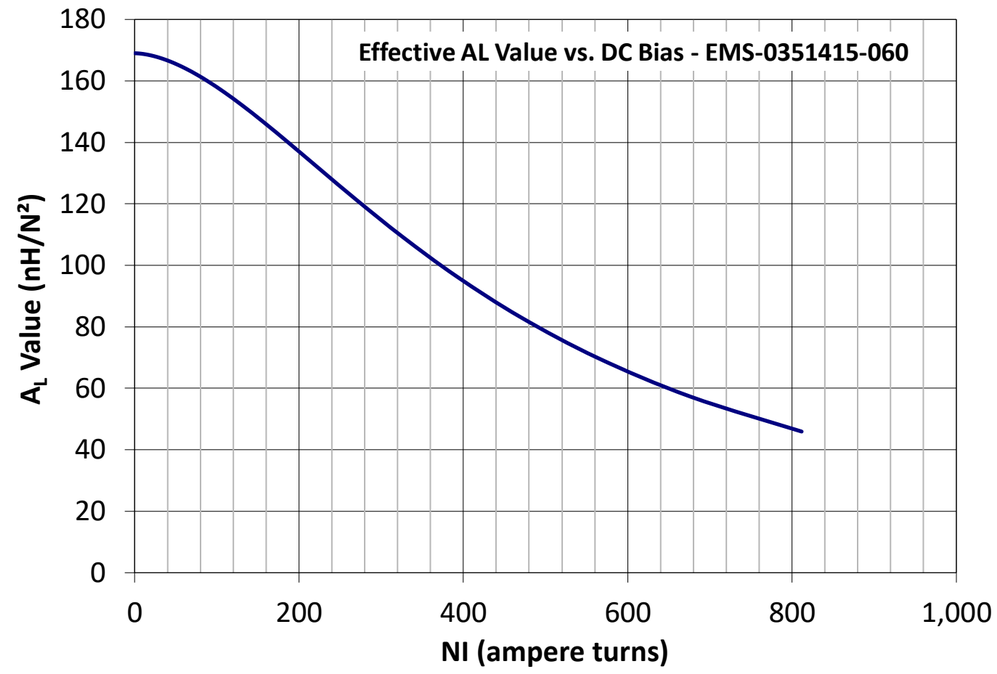
Revision 20161027 - Generated 2016-Nov-02

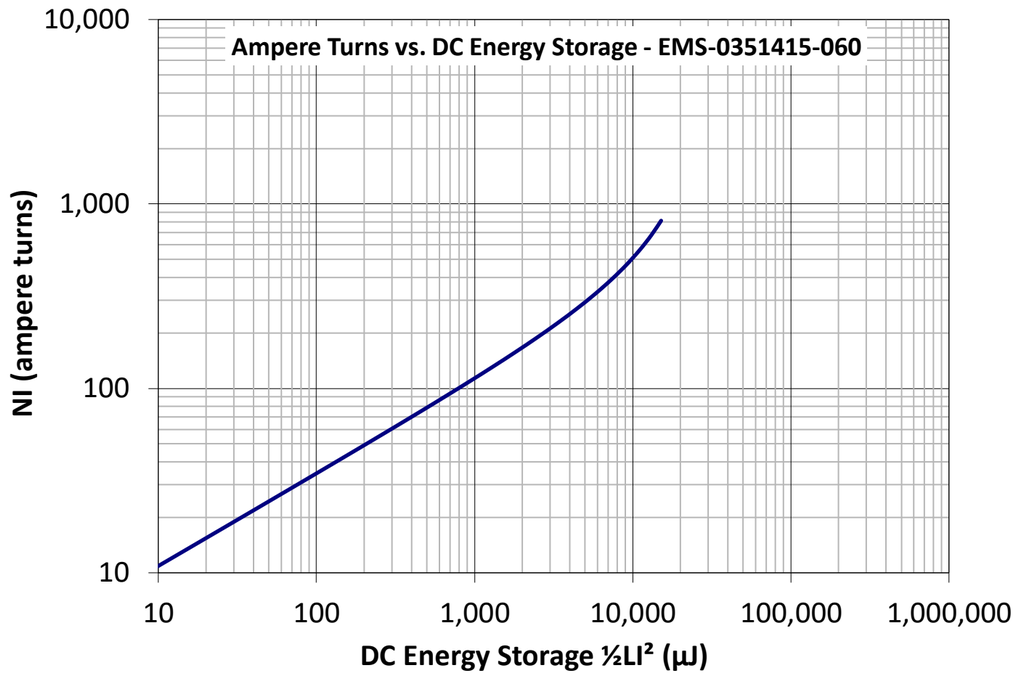


A	34.5 ± 0.51 mm	1.358 ± 0.020 in
B	14.1 ± 0.23 mm	0.555 ± 0.009 in
C	15 ± 0.18 mm	0.591 ± 0.007 in
D	9.6 mm (min.)	0.378 in (min.)
E	25.3 mm (min.)	0.996 in (min.)
F	9.3 ± 0.20 mm	0.366 ± 0.008 in
Mass	(approximate)	27 grams/half
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.34 cm²
	L_e - Eff. Mag. Path Length	6.94 cm
	V_e - Eff. Core Volume	9.30 cm³
	WA - Min. Eff. Window Area	1.52 cm²
	sa - Surface Area	45.4 cm²
	mlt - mean length per turn	8.06 cm
Inductance	μ_i(reference)	60
	A_L value (nominal)	169 nH/N²
	Test Winding	N=100, #20 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.59 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=7.89E+09, b=7.11E+08, c=8.98E+06, d=2.85E-14*	
	B_{pk}	1000 G
	frequency	50 kHz
	Core Loss (nominal)	323 mW/cm³
	Core Loss (maximum)	372 mW/cm³
DC Saturation	$\%\mu_i = \frac{1}{a + b\cdot H^{c}} + d$	
	where H expressed in oersteds, and: *a=0.01, b=4.47E-06, c=1.74, d=0.00*	
	H_{DC}	100 Oe
	Percent Initial Perm(nom.)	42.2%
	Percent Initial Perm(min.)	34.7%
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	189 Halves/Box









Winding Table	**Wire Size**	AWG	12	14	16	18	20	22	24	26	28	30	32
		mm	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200
	Full Winding	Turns	20	30	47	73	112	174	269	417	645	998	1,545
		Rdc(Ω)	8.4 m	20.0 m	49.8 m	123.1 m	300.3 m	742.1 m	1.8	4.5	11.1	27.2	67.0

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