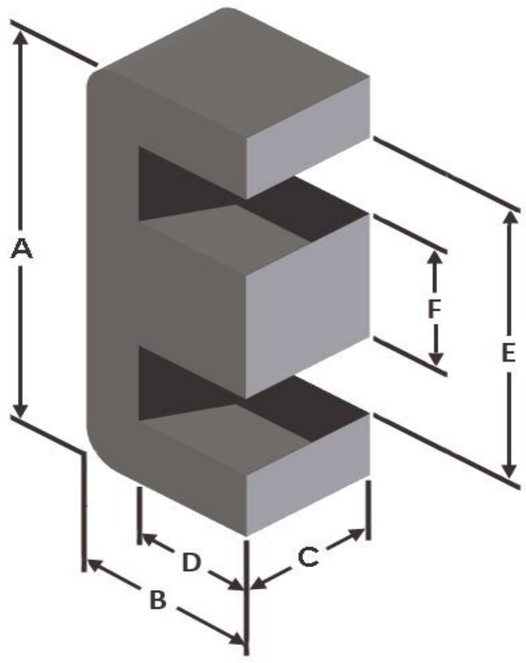
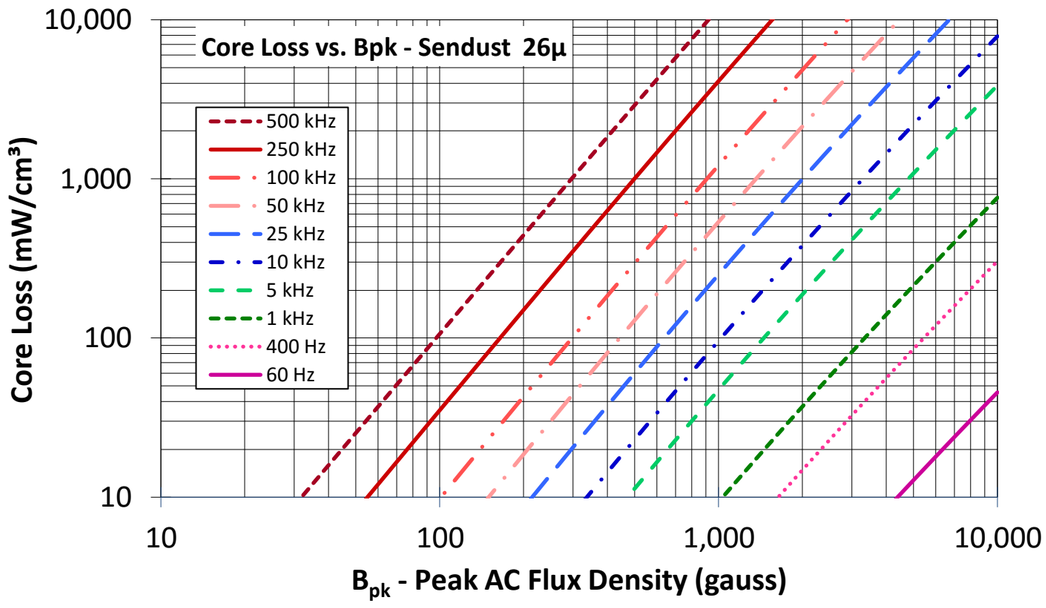
MICROMETALS
ALLOY POWDER CORES

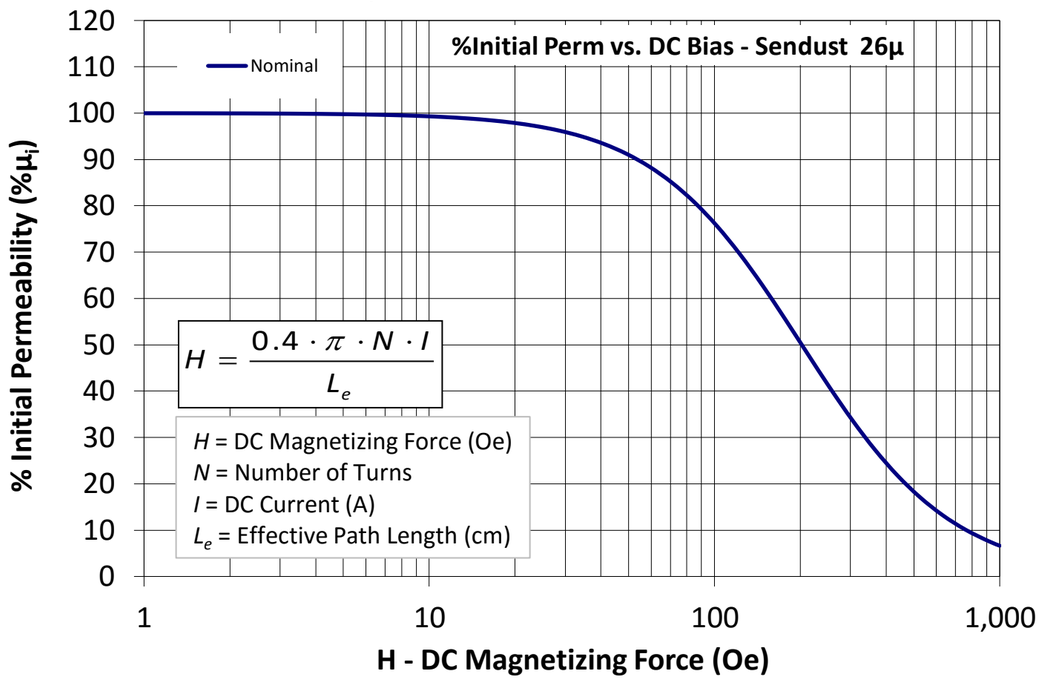
Part Number:	EMS-0411713-026

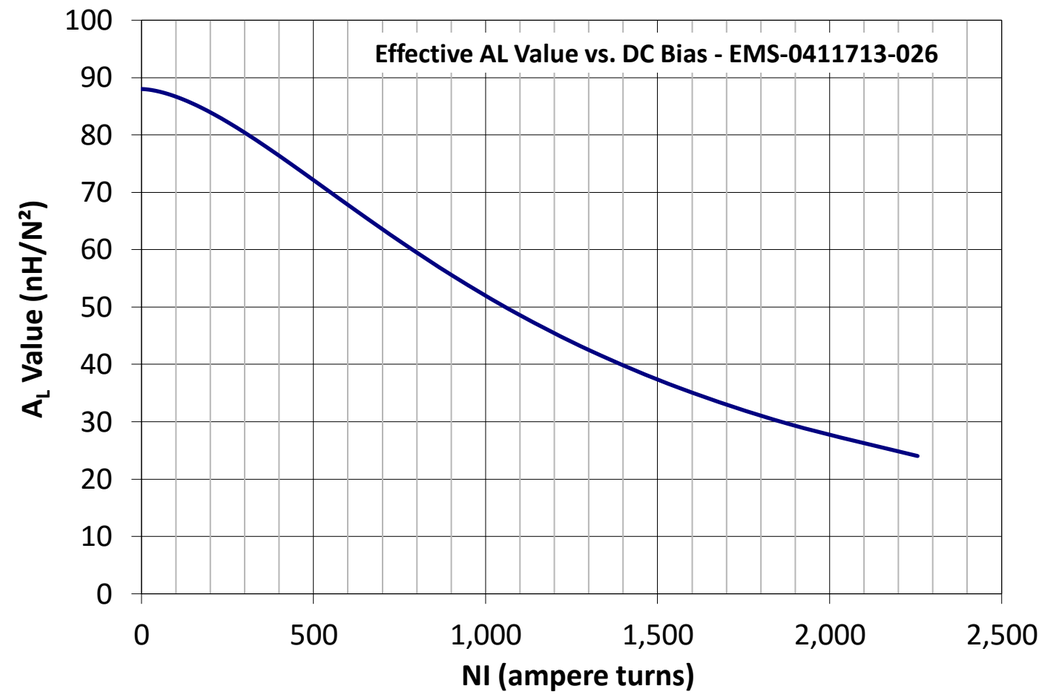
Revision 20160816 - Generated 2016-Aug-16

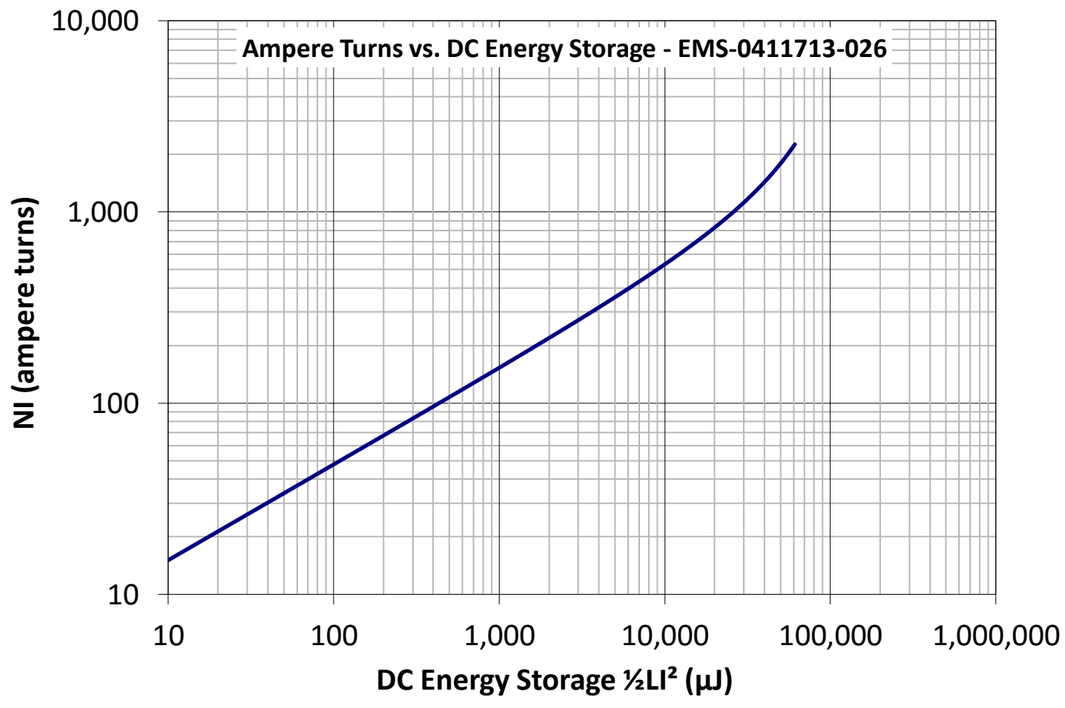


A	40.9 ± 0.61 mm	1.610 ± 0.024 in
B	16.5 ± 0.28 mm	0.650 ± 0.011 in
C	12.5 ± 0.18 mm	0.492 ± 0.007 in
D	10.4 mm (min.)	0.409 in (min.)
E	28.3 mm (min.)	1.114 in (min.)
F	12.5 ± 0.20 mm	0.492 ± 0.008 in
Mass	(approximate)	30 grams/half
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.52 cm²
	L_e - Eff. Mag. Path Length	7.75 cm
	V_e - Eff. Core Volume	11.8 cm³
	WA - Min. Eff. Window Area	1.62 cm²
	sa - Surface Area	53.2 cm²
	mlt - mean length per turn	8.16 cm
Inductance	μ_i(reference)	26
	A_L value (nominal)	88 nH/N²
	Test Winding	N=100, #20 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.67 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=4.97E+08, c=3.99E+06, d=2.87E-14	
	B_{pk}	500 G
	frequency	100 kHz
	Core Loss (nominal)	295 mW/cm³
	Core Loss (maximum)	339 mW/cm³
DC Saturation	$\%\mu_i = \frac{1}{a + b\cdot H^{c}} + d$	
	where H expressed in oersteds, and:	
	a=0.01, b=1.53E-06, c=1.65, d=0.00	
	H_{DC}	200 Oe
	Percent Initial Perm(nom.)	50.5%
	Percent Initial Perm(min.)	43.0%
Coating/Pkg	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	175 Halves/Box









Winding Table													
Wire Size	AWG	10	12	14	16	18	20	22	24	26	28	30
	mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
Full Winding	Turns	14	21	32	50	78	120	186	288	446	690	1,068
	Rdc(Ω)	3.7 m	8.9 m	21.6 m	53.7 m	133.2 m	325.8 m	803.1 m	2.0	4.9	12.0	29.5

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