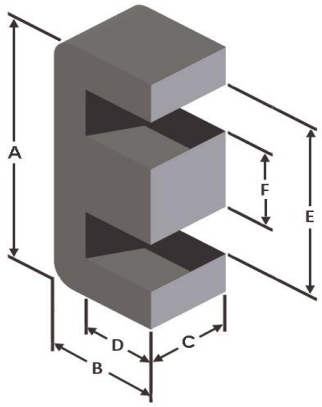
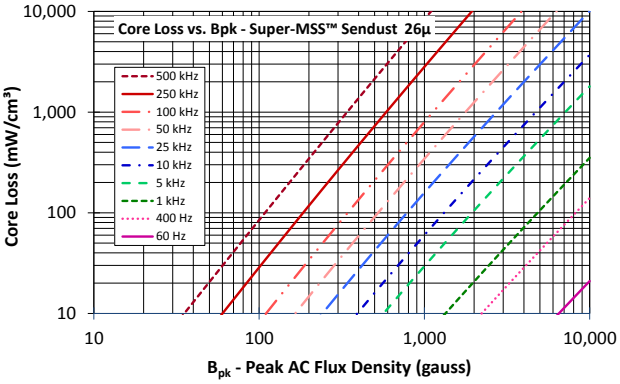
MICROMETALS
ARNOLD POWDER CORES

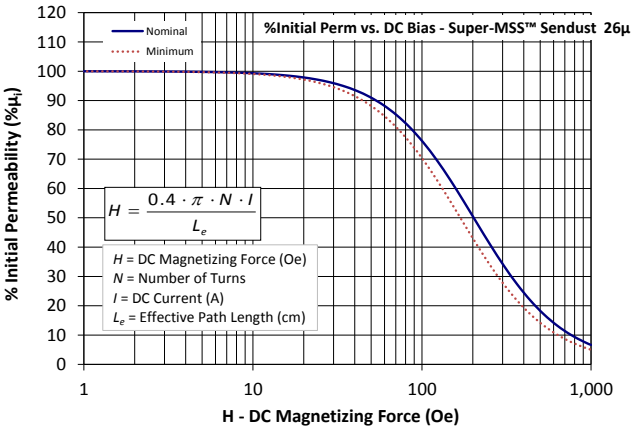
Part Number:	EMS-0804520-026

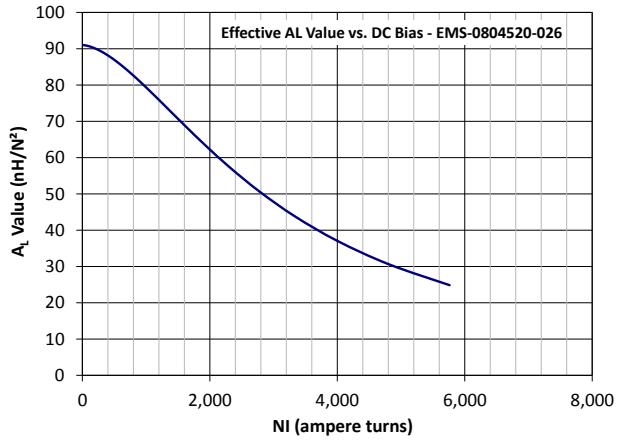
Revision 20140225 - Generated 12-Mar-2014

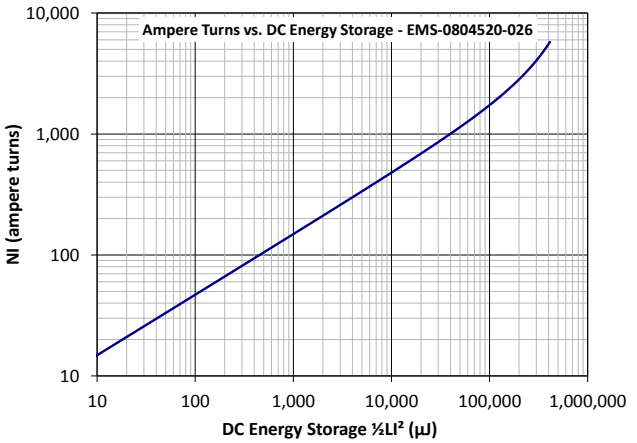


A	80 ± 1.19 mm	3.150 ± 0.047 in
B	44.6 ± 0.58 mm	1.756 ± 0.023 in
C	19.8 ± 0.41 mm	0.780 ± 0.016 in
D	34.4 mm (min.)	1.354 in (min.)
E	59.3 mm (min.)	2.335 in (min.)
F	19.8 ± 0.41 mm	0.780 ± 0.016 in
Mass	(approximate)	200 grams/half
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	3.89 cm²
	L_e - Eff. Mag. Path Length	19.8 cm
	V_e - Eff. Core Volume	77.0 cm³
	WA - Min. Eff. Window Area	13.4 cm²
	sa - Surface Area	260 cm²
	mlt - mean length per turn	15.8 cm
Inductance	μ_i(reference)	26
	A_L value (nominal)	91 nH/N²
	Test Winding	N=100, #14 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	1.7 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=4.60E+08, c=1.02E+07, d=2.19E-14	
	B_{pk}	500 G
	frequency	100 kHz
	Core Loss (nominal)	210 mW/cm³
	Core Loss (maximum)	241 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	48 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	73	112	174	269	416	644	997	1,543	2,388	3,695	5,720
	Rdc(Ω)	23.7 m	57.9 m	143.2 m	352.0 m	865.7 m	2.1	5.2	12.9	31.8	78.2	192.6

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