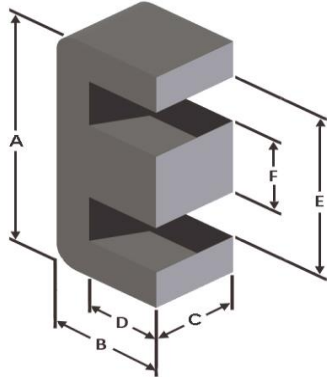




**Part Number:** EMS-0804520-026

Revision 2021-Dec-02 - Generated 2021-Dec-02



<b>A</b>	80 ± 1.19 mm	3.150 ± 0.047 in
<b>B</b>	44.6 ± 0.58 mm	1.756 ± 0.023 in
<b>C</b>	19.8 ± 0.41 mm	0.780 ± 0.016 in
<b>D</b>	34.4 mm (min.)	1.354 in (min.)
<b>E</b>	59.3 mm (min.)	2.335 in (min.)
<b>F</b>	19.8 ± 0.41 mm	0.780 ± 0.016 in

<b>Mass</b>	(approximate)	190 grams/half
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<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section	3.89 cm <sup>2</sup>
	$L_e$ - Eff. Mag. Path Length	19.8 cm
	$V_e$ - Eff. Core Volume	77.0 cm <sup>3</sup>
	WA - Min. Eff. Window Area	13.4 cm <sup>2</sup>
	sa - Surface Area	260 cm <sup>2</sup>
	mlt - mean length per turn	15.8 cm

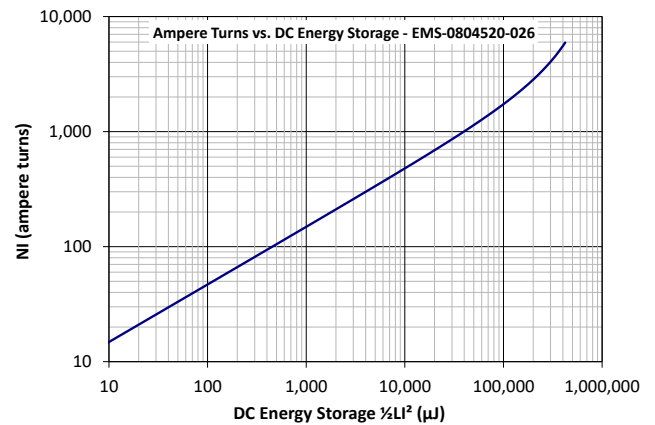
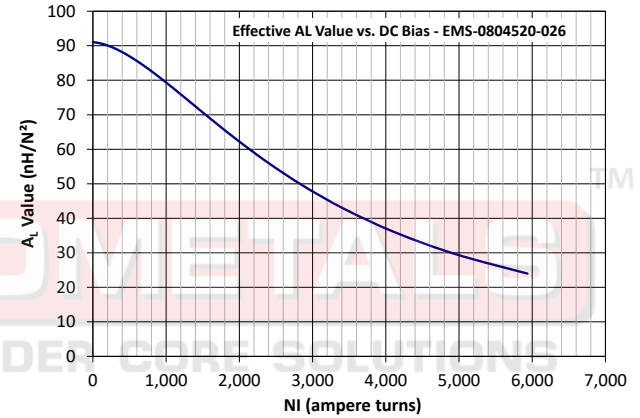
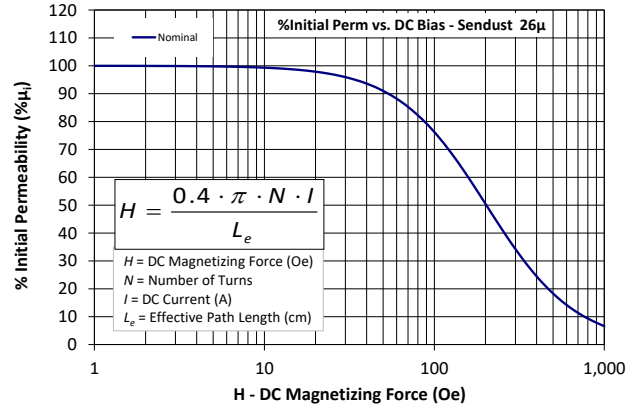
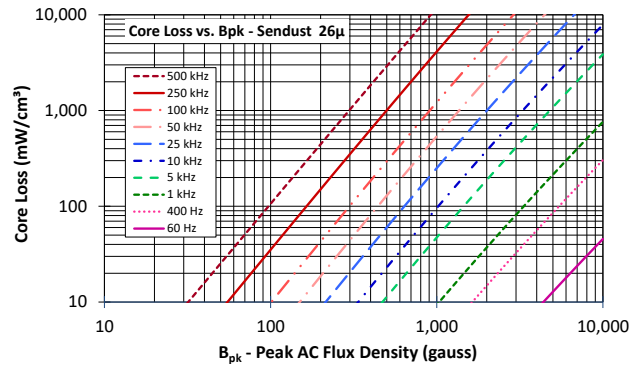
<b>Inductance</b>	$\mu_i$ (reference)	26
	$A_L$ value (nominal)	91 nH/N <sup>2</sup>
	Test Winding	N=100, #14 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	1.7 V
	$A_L$ tolerance	±8%

<b>Core Loss</b>	Core Loss(mW/cm <sup>3</sup> )= $\frac{f}{B_{pk}^3} + \frac{f}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$	
	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/cm <sup>3</sup>
	Core Loss (maximum)	339 mW/cm <sup>3</sup>

<b>DC Saturation</b>	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	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%

<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	48 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Full Winding</b>	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



**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.micrometals.com](http://www.micrometals.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.Micrometals.com](http://www.Micrometals.com)