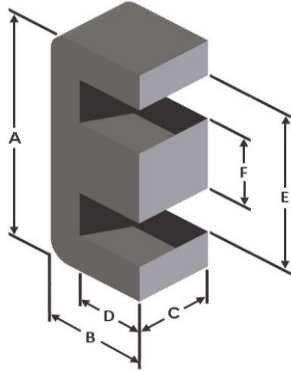
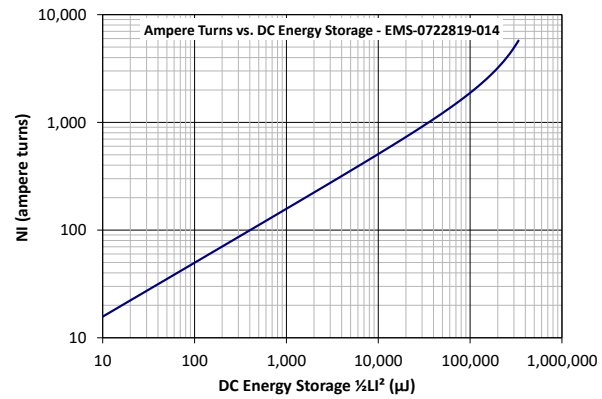
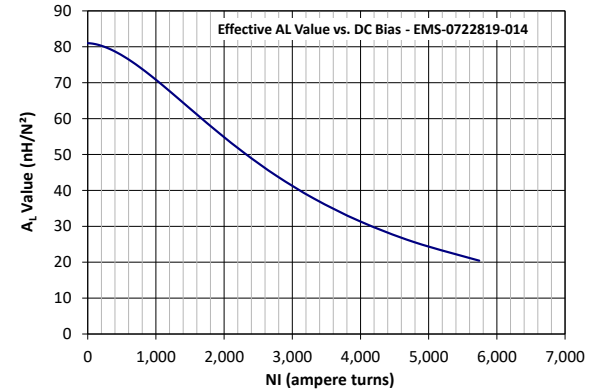
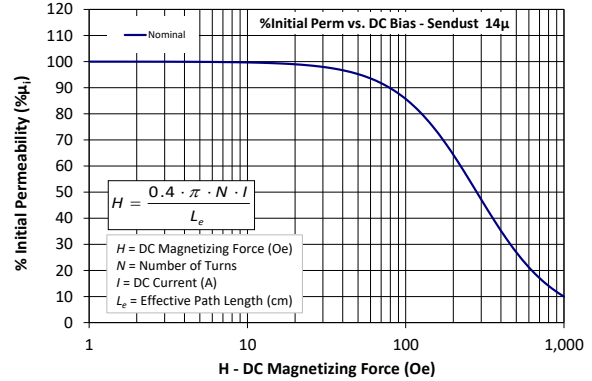
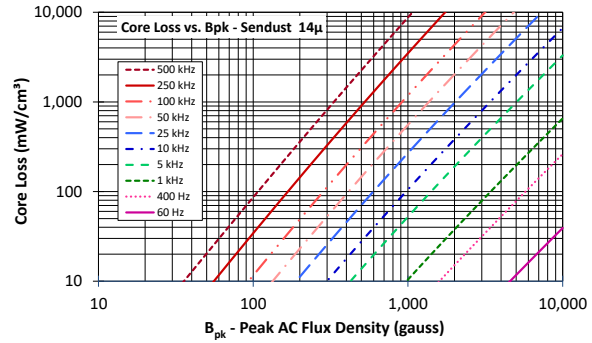




**Part Number:** EMS-0722819-014  
Revision 20180523 - Generated 2018-May-23



<b>A</b>	72.4 ± 0.09 mm	2.850 ± 0.043 in											
<b>B</b>	27.9 ± 0.41 mm	1.098 ± 0.016 in											
<b>C</b>	19.1 ± 0.38 mm	0.752 ± 0.015 in											
<b>D</b>	17.8 mm (min.)	0.701 in (min.)											
<b>E</b>	52.6 mm (min.)	2.071 in (min.)											
<b>F</b>	19.1 ± 0.38 mm	0.752 ± 0.015 in											
<b>Mass</b>	(approximate)	120 grams/half											
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	3.68 cm <sup>2</sup>											
	L <sub>e</sub> - Eff. Mag. Path Length	13.7 cm											
	V <sub>e</sub> - Eff. Core Volume	50.3 cm <sup>3</sup>											
	WA - Min. Eff. Window Area	5.90 cm <sup>2</sup>											
	sa - Surface Area	159 cm <sup>2</sup>											
	mlt - mean length per turn	14.3 cm											
<b>Inductance</b>	μ <sub>i</sub> (reference)	14											
	A <sub>i</sub> value (nominal)	81 nH/N <sup>2</sup>											
	Test Winding	N=100, #16 AWG											
	Frequency	10 kHz											
	Voltage on Agilent 4284A	1.6 V											
	A <sub>i</sub> tolerance	±8%											
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$												
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.00E+06, b=2.84E+08, c=5.38E+06, d=1.42E-14												
	B <sub>pk</sub>	300 G											
	frequency	100 kHz											
	Core Loss (nominal)	112 mW/cm <sup>3</sup>											
	Core Loss (maximum)	129 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=5.74E-07, c=1.73, d=0.00												
	H <sub>dc</sub>	200 Oe											
	Percent Initial Perm(nom.)	64.3%											
	Percent Initial Perm(min.)	56.8%											
<b>Coating/Pkg</b>	Coating Type:	None											
	Voltage Breakdown (min.)	N/A											
	Limit	N/A											
	Package Quantity	60 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	32	49	76	118	182	282	437	676	1,047	1,620	2,507
		Rdc(Ω)	9.4 m	23.0 m	56.7 m	140.0 m	343.3 m	846.0 m	2.1	5.1	12.6	31.1	76.5



**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](http://www.micrometalsapc.com).