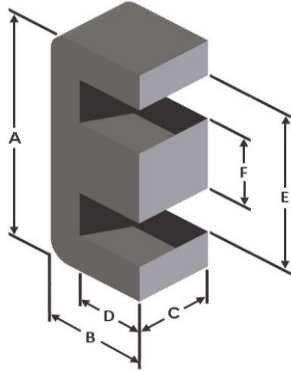




**Part Number:** EFS-0351415-014  
Revision 20180523 - Generated 2018-May-23



<b>A</b>	34.5 ± 0.51 mm	1.358 ± 0.020 in
<b>B</b>	14.1 ± 0.23 mm	0.555 ± 0.009 in
<b>C</b>	15 ± 0.18 mm	0.591 ± 0.007 in
<b>D</b>	9.6 mm (min.)	0.378 in (min.)
<b>E</b>	25.3 mm (min.)	0.996 in (min.)
<b>F</b>	9.3 ± 0.20 mm	0.366 ± 0.008 in

**Mass** (approximate) 27 grams/half

<b>Magnetic Dimensions</b>	$A_e$ - Eff. Mag. Cross Section	1.34 cm <sup>2</sup>
	$L_e$ - Eff. Mag. Path Length	6.94 cm
	$V_e$ - Eff. Core Volume	9.30 cm <sup>3</sup>
	WA - Min. Eff. Window Area	1.52 cm <sup>2</sup>
	sa - Surface Area	45.4 cm <sup>2</sup>
	mlt - mean length per turn	8.06 cm

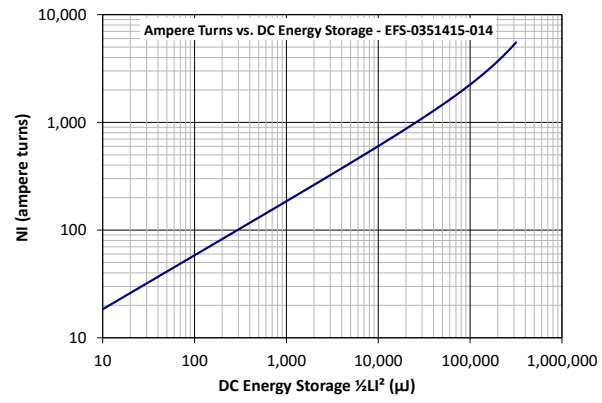
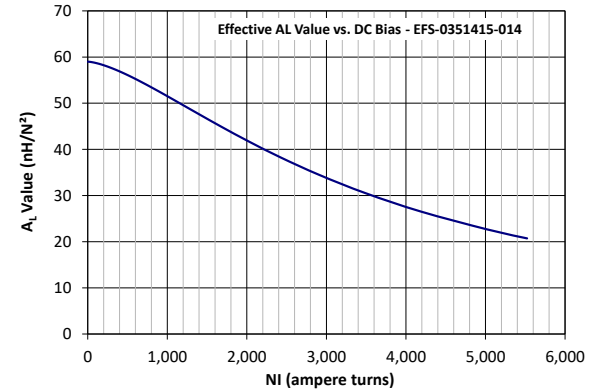
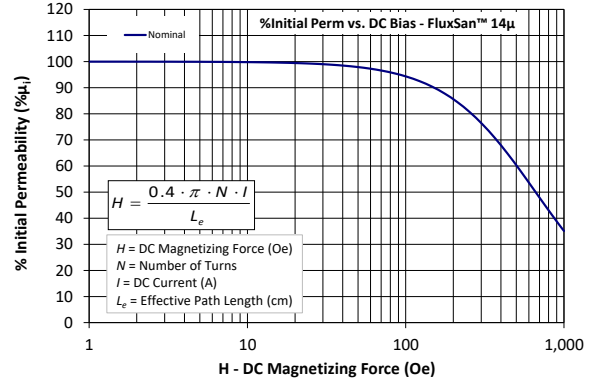
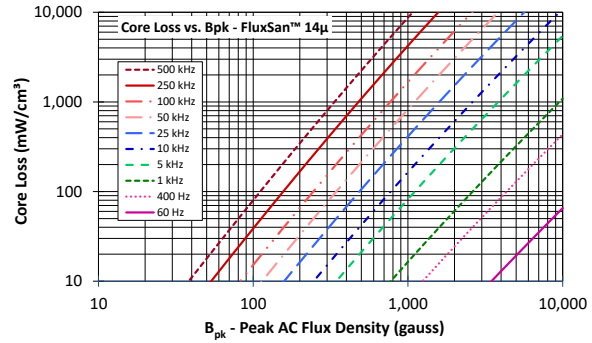
<b>Inductance</b>	$\mu_i$ (reference)	14
	$A_L$ value (nominal)	59 nH/N <sup>2</sup>
	Test Winding	N=100, #20 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	0.59 V
	$A_L$ tolerance	±8%

<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{a} + \frac{b}{B_{pk}^3} + \frac{c}{B_{pk}^{2.3}} + \frac{d}{B_{pk}^{1.65}} + d \cdot B_{pk}^2 \cdot f^2$	
	where $B_{pk}$ expressed in gauss, $f$ expressed in hertz, and: $a=1.00E+06$ , $b=2.03E+08$ , $c=3.14E+06$ , $d=2.04E-15$	
	$B_{pk}$	300 G
	frequency	100 kHz
	Core Loss (nominal)	152 mW/cm <sup>3</sup>
	Core Loss (maximum)	175 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: $a=0.01$ , $b=6.29E-07$ , $c=1.49$ , $d=0.00$	
	$H_{dc}$	200 Oe
	Percent Initial Perm(nom.)	85.6%
	Percent Initial Perm(min.)	81.9%

<b>Coating/Pkg</b>	Coating Type:	None
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	189 Halves/Box

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



**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).