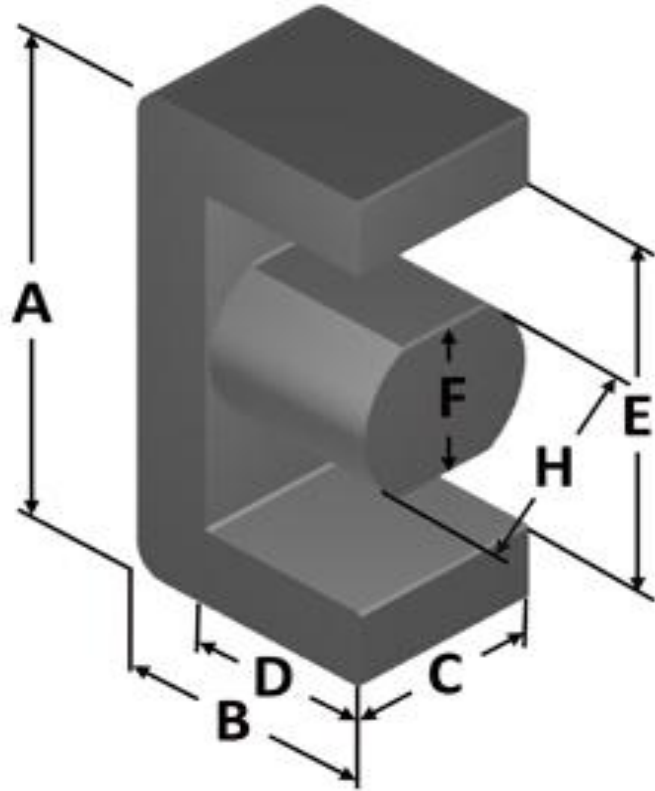




**Part Number:** **EM126-52**  
Revision 20190524 - Generated 2019-May-30



<b>A</b>	31.75 ± 0.38 mm	1.250 ± 0.015 in
<b>B</b>	15.88 ± 0.19 mm	0.625 ± 0.008 in
<b>C</b>	14.48 ± 0.18 mm	0.570 ± 0.007 in
<b>D</b>	11.63 mm (nom.)	0.458 in (nom.)
<b>E</b>	25.65 mm (nom.)	1.010 in (nom.)
<b>F</b>	11.13 ± 0.25 mm	0.438 ± 0.010 in
<b>H</b>	11.13 ± 0.13 mm	0.438 ± 0.005 in
<b>Mass</b>	(approximate)	26 grams/half
<b>Magnetic Dimensions</b>	A <sub>e</sub> - Eff. Mag. Cross Section	0.960 cm <sup>2</sup>
	L <sub>e</sub> - Eff. Mag. Path Length	7.46 cm
	V <sub>e</sub> - Eff. Core Volume	7.43 cm <sup>3</sup>
	WA - Min. Eff. Window Area	1.66 cm <sup>2</sup>
	sa - Surface Area	45.7 cm <sup>2</sup>
	mlt - mean length per turn	8.03 cm
<b>Inductance</b>	μ <sub>i</sub> (reference)	75
	A <sub>L</sub> value (nominal)	119 nH/N <sup>2</sup>
	Test Winding	N=0, #0 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	#DIV/0!
	A <sub>L</sub> tolerance	±10%
<b>Core Loss</b>	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B <sub>pk</sub> expressed in gauss, f expressed in hertz, and: a=1.00E+09, b=1.10E+08, c=2.10E+06, d=6.90E-14	
	B <sub>pk</sub>	140 G
	frequency	100 kHz
	Core Loss (nominal)	58 mW/cm <sup>3</sup>
	Core Loss (maximum)	67 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=1.00E-02, b=4.66E-06, c=1.84, d=0.00	
	H <sub>DC</sub>	50 Oe
	Percent Initial Perm(nom.)	61.6%
	Percent Initial Perm(min.)	53.4%
<b>Coating/Pkg</b>	Coating Type:	None, Green/Blue Stripes
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	576 Halves/Box

<b>Winding Table</b>	<b>Wire Size</b>	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
	<b>Full Winding</b>	Turns	14	21	33	51	80	123	190	295	456	706	1,093
		Rdc(Ω)	3.7 m	8.8 m	21.9 m	53.8 m	134.3 m	328.5 m	806.9 m	2.0	4.9	12.1	29.7

