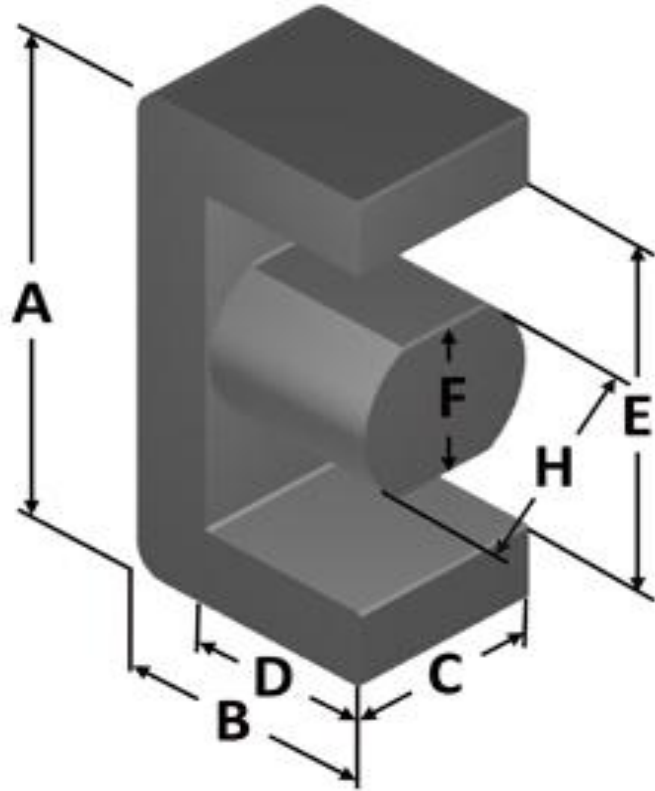




Part Number: **EM126-8**
Revision 20190524 - Generated 2019-May-30



A	31.75 ± 0.38 mm	1.250 ± 0.015 in
B	15.88 ± 0.19 mm	0.625 ± 0.008 in
C	14.48 ± 0.18 mm	0.570 ± 0.007 in
D	11.63 mm (nom.)	0.458 in (nom.)
E	25.65 mm (nom.)	1.010 in (nom.)
F	11.13 ± 0.25 mm	0.438 ± 0.010 in
H	11.13 ± 0.13 mm	0.438 ± 0.005 in
Mass	(approximate)	24 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	0.960 cm ²
	L _e - Eff. Mag. Path Length	7.46 cm
	V _e - Eff. Core Volume	7.43 cm ³
	WA - Min. Eff. Window Area	1.66 cm ²
	sa - Surface Area	45.7 cm ²
	mlt - mean length per turn	8.03 cm
Inductance	μ _i (reference)	35
	A _L value (nominal)	48.7 nH/N ²
	Test Winding	N=0, #0 AWG
	Frequency	10 kHz
	Voltage on Agilent 4284A	#DIV/0!
	A _L tolerance	±10%
Core Loss	$\text{Core Loss (mW/cm}^3\text{)} = \frac{f}{\frac{a}{B_{pk}^3} + \frac{b}{B_{pk}^{2.3}} + \frac{c}{B_{pk}^{1.65}}} + d \cdot B_{pk}^2 \cdot f^2$	
	where B _{pk} expressed in gauss, f expressed in hertz, and: a=1.90E+09, b=2.00E+08, c=9.00E+05, d=5.00E-15	
	B _{pk}	140 G
	frequency	100 kHz
	Core Loss (nominal)	32 mW/cm ³
	Core Loss (maximum)	36 mW/cm ³
DC Saturation	$\% \mu_i = \frac{1}{a + b \cdot H^c} + d$	
	where H expressed in oersteds, and: a=1.00E-02, b=3.49E-06, c=1.43, d=0.00	
	H _{DC}	200 Oe
	Percent Initial Perm(nom.)	60.1%
	Percent Initial Perm(min.)	53.7%
Coating/Pkg	Coating Type:	None, Yellow/Red Stripes
	Voltage Breakdown (min.)	N/A
	Limit	N/A
	Package Quantity	576 Halves/Box

Winding Table	Wire Size	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
	Full Winding	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

