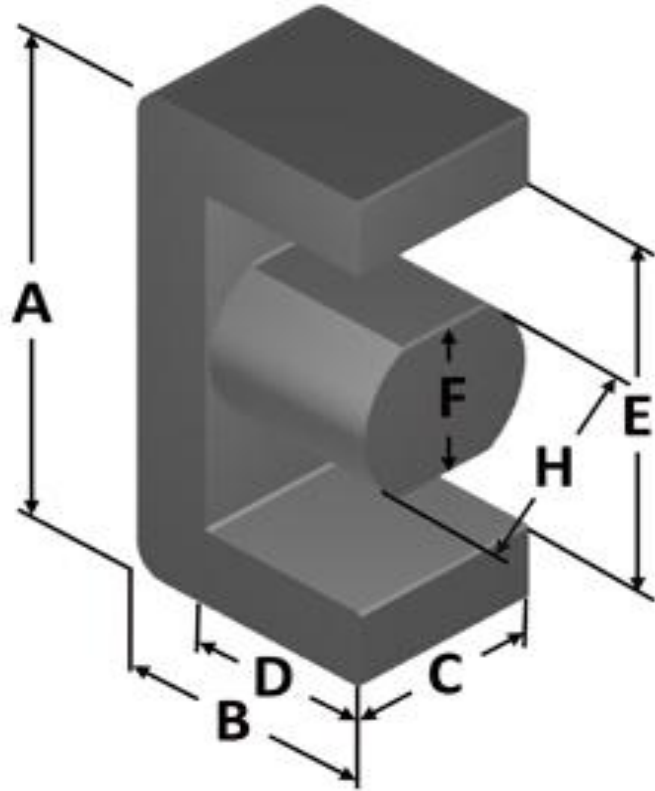




Part Number: **EM150-8**
Revision 20190524 - Generated 2019-May-30



A	38.10 ± 0.38 mm	1.500 ± 0.015 in
B	19.05 ± 0.19 mm	0.750 ± 0.008 in
C	19.05 ± 0.25 mm	0.750 ± 0.010 in
D	15.24 mm (nom.)	0.600 in (nom.)
E	30.23 mm (nom.)	1.190 in (nom.)
F	13.61 ± 0.25 mm	0.536 ± 0.010 in
H	13.61 ± 0.38 mm	0.536 ± 0.015 in
Mass	(approximate)	45 grams/half
Magnetic Dimensions	A _e - Eff. Mag. Cross Section	1.45 cm ²
	L _e - Eff. Mag. Path Length	9.46 cm
	V _e - Eff. Core Volume	13.7 cm ³
	WA - Min. Eff. Window Area	2.49 cm ²
	sa - Surface Area	68.1 cm ²
	mlt - mean length per turn	9.86 cm
Inductance	μ _i (reference)	35
	A _L value (nominal)	63.7 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	240 Halves/Box

Winding Table	Wire Size	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
	Full Winding	Turns	13	21	32	50	77	119	185	286	443	685	1,060
		Rdc(Ω)	2.6 m	6.8 m	16.4 m	40.8 m	99.8 m	245.3 m	606.6 m	1.5	3.7	9.0	22.2

