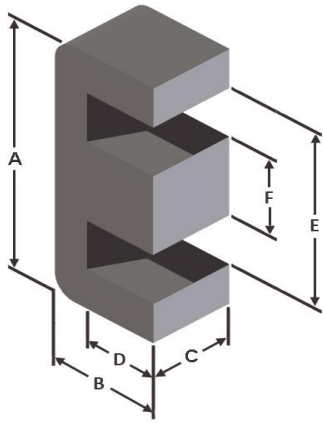


19.3 mm/0.760 in. E-Core



Typical Part Number: E MS - 019 08 05 - 090

Geometry _____
 Material Type _____
 "A" Dimension in XXXmm _____
 "B" Dimension in XXmm _____
 "C" Dimension in XXmm _____
 Reference Permeability _____
 Standard Industrial Size: LAM EI-187

Physical Dimensions

A	19.3 ± 0.30 mm	0.760 ± 0.012 in
B	8.1 ± 0.18 mm	0.319 ± 0.007 in
C	4.78 ± 0.15 mm	0.188 ± 0.006 in
D	5.54 mm (min.)	0.218 in (min.)
E	13.9 mm (min.)	0.547 in (min.)
F	4.78 ± 0.13 mm	0.188 ± 0.005 in

Magnetic Dimensions

Ae	Effective Magnetic Cross Section	0.228 cm ²
Le	Effective Magnetic Path Length	4.01 cm
Ve	Effective Core Volume	0.914 cm ³
WA	Minimum Effective Window Area	0.498 cm ²
SA	Surface Area	11.9 cm ²
MLT	Mean Length Per Turn	3.74 cm

Permeability

Part Numbers

Reference Permeability	A _L Value (nH/N ²)	MS Sendust	FluxSan™ Silicon Iron
14μ	17	EMS-0190805-014	EFS-0190805-014
26μ	26	EMS-0190805-026	EFS-0190805-026
40μ	35	EMS-0190805-040	EFS-0190805-040
60μ	48	EMS-0190805-060	EFS-0190805-060
75μ	61	EMS-0190805-075	
90μ	69	EMS-0190805-090	
Approximate Unit Weight:		2.5 g/half	3.0 g/half

Test Conditions

Winding	N=100, #26 AWG
Frequency	10 kHz
Voltage	0.10 V
A_L Tolerance	±8%

Coating/Packaging Information

Coating Type	None
Voltage Breakdown	N/A
Limit	N/A
Package Quantity	1,080 Halves/Box

Winding Table

Wire Size	AWG	16	18	20	22	24	26	28	30	32	34	36
	mm	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250	0.200	0.160	0.125
Full Winding	Turns	15	24	37	57	88	137	212	328	508	786	1,216
	Rdc(Ω)	7.4 m	18.8 m	46.0 m	112.7 m	276.7 m	685.0 m	1.7	4.1	10.2	25.1	61.9