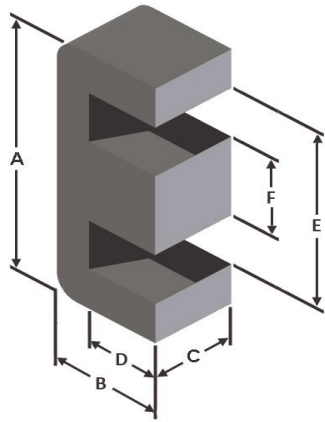


34.5 mm/1.358 in. E-Core



Typical Part Number: **E MS - 035 14 15 - 090**

Geometry → E
 Material Type → MS
 "A" Dimension in XXXmm → 035
 "B" Dimension in XXmm → 14
 "C" Dimension in XXmm → 15
 Reference Permeability → 090

Physical Dimensions

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

Magnetic Dimensions

Ae	Effective Magnetic Cross Section	1.34 cm ²
Le	Effective Magnetic Path Length	6.94 cm
Ve	Effective Core Volume	9.30 cm ³
WA	Minimum Effective Window Area	1.52 cm ²
SA	Surface Area	45.4 cm ²
MLT	Mean Length Per Turn	8.06 cm

Permeability

Part Numbers

Reference Permeability	A _L Value (nH/N ²)	MS Sendust	FluxSan™ Silicon Iron
14μ	59	EMS-0351415-014	EFS-0351415-014
26μ	88	EMS-0351415-026	EFS-0351415-026
40μ	121	EMS-0351415-040	EFS-0351415-040
60μ	169	EMS-0351415-060	EFS-0351415-060
75μ	N/A		
90μ	N/A		
Approximate Unit Weight:		26 g/half	30 g/half

Test Conditions

Winding	N=100, #20 AWG
Frequency	10 kHz
Voltage	0.59 V
A_L Tolerance	±8%

Coating/Packaging Information

Coating Type	None
Voltage Breakdown	N/A
Limit	N/A
Package Quantity	189 Halves/Box

Winding Table

Wire Size	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
Full Winding	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