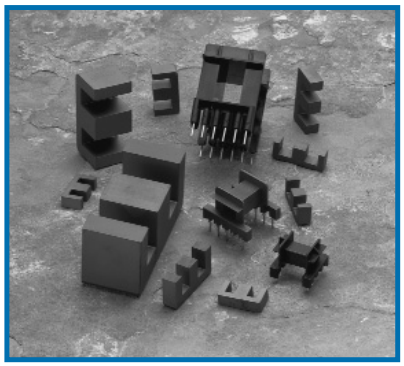
E Cores

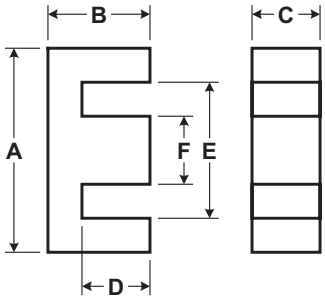
E cores were one of the first ferrite cores to be manufactured, being derived from their respective steel lamination size. MMG's range reflects a selection of cores that have become, over many years, worldwide standards through continued use. E cores are particularly suitable for power transformers and filters at low frequencies.



The below range of E cores can also be supplied gapped to a specific inductance value. Additional materials and sizes are available upon request. Please contact our applications engineering department for further details.

Description	Dimmensions [mm]						Magnetic Core Constants			
	A	B	C	D	E	F	C_1 [mm^{-1}]	L_e [mm]	A_e [mm^2]	V_e [mm^3]
E 5/2	5.25	2.66	1.95	1.98	3.8	1.35	4.70	12.50	2.7	33
E 10/5	10.20	5.70	4.75	4.20	7.70	2.45	2.13	26.00	12.0	323
EF 12.6	12.60	6.50	3.70	4.50	8.90	3.70	2.28	29.60	13.0	384
E 13/3	12.70	6.60	3.18	5.11	9.73	3.18	3.27	31.70	9.7	307
EF 16	16.10	8.05	8.05	5.90	11.30	4.55	1.87	37.60	20.1	754
E 19/5 (E187)	19.30	8.08	4.75	5.72	14.55	4.75	1.78	40.00	22.5	900
E 20/5	20.00	10.10	5.30	6.50	13.10	5.00	1.37	43.00	25.5	1330
EF 20	20.40	9.95	5.90	7.00	14.10	5.90	1.34	44.90	33.5	1500
EF 25	24.85	12.55	7.20	8.95	17.90	7.25	1.09	57.50	52.5	3020
E 25/6 (E250)	25.40	9.53	6.27	6.49	19.56	6.27	1.28	48.70	38.1	1860
E 30/7	30.00	15.20	7.30	9.70	19.50	7.20	1.12	67.00	60.0	4000
EF 32	32.10	16.10	9.15	11.5	23.2	8.75	0.89	74.31	83.2	6180
E 34/8	34.14	13.11	7.87	8.49	24.59	11.12	0.81	62.50	77.4	4840
E 34/14 (E375)	34.68	14.4	9.27	9.65	25.02	9.40	0.79	69.17	88.0	6084
E 41/9	41.00	22.28	8.78	16.72	28.58	11.76	0.97	102.00	105.0	10600

E Cores



Description	Typical A_L Values [nH/N^2]								
	F49	F47	F44	F5	F48	F5A	F9	F9C	F10
E 5/2	-	-	250	280	-	-	-	-	-
E 10/5	-	-	-	-	-	940	-	1500	-
EF 12.6	-	-	760	-	-	830	1400	1660	-
E 13/6.6/3	-	-	-	550	-	-	-	-	-
EF 16	-	-	1000	-	-	1100	-	1950	-
E 19/8/5 (E187)	-	-	970	-	1250	1300	2160	2240	2650
E 20/10/5	-	-	1390	1500	-	-	2500	-	-
EF 20	-	-	1450	-	-	1570	2500	2920	-
EF 25	-	1550	1710	-	1900	2000	3100	3750	4500
E 25/9.5/6 (E250)	-	-	1480	2000	-	1830	-	-	4000
E 30/15/7	-	-	1800	1800	-	-	3300	-	-
EF 32	-	-	3215	-	-	-	-	-	-
E 34/13/8	-	-	2360	2240	-	-	4100	-	-
E 34/14/9 (E375)	-	-	2380	-	-	2890	-	4800	-
E 41/22/9	-	-	2000	-	-	-	3750	-	-

E Cores

Description	Dimmensions [mm]						Magnetic Core Constants			
	A	B	C	D	E	F	C_1 [mm^{-1}]	L_e [mm]	A_e [mm^2]	V_e [mm^3]
E 41/16 (E21)	40.64	16.48	12.45	10.54	28.58	12.45	0.50	77.23	153.0	11841
E 42/15	42.00	21.20	15.20	14.80	29.50	12.20	0.54	97.00	181.0	17600
E 42/20	42.00	21.20	20.00	14.80	29.50	12.20	0.41	97.00	240.0	23300
E 55/21	55.00	27.80	21.00	18.50	27.50	17.20	0.35	123.00	355.0	43700
E 55/25	55.00	27.80	24.70	18.50	27.50	17.20	0.29	123.00	420.0	52000
E 65/27	65.00	32.80	26.80	22.20	44.20	20.00	0.28	147.00	532.0	78200
E 70/32	70.00	32.25	31.75	21.48	48.38	22.13	0.21	146.00	697.0	101922

E Cores

Description	Typical A_L Values [nH/N^2]								
	F49	F47	F44	F5	F48	F5A	F9	F9C	F10
E 41/16 (E21)	-	-	3585	-	-	4375	-	7700	-
E 42/15	-	-	3500	3500	-	-	-	-	-
E 42/20	-	-	4560	4750	-	-	-	-	-
E 55/21	-	-	5570	5800	-	6366	10000	-	-
E 55/25	-	-	6875	-	-	7600	-	-	-
E 65/27	-	-	7430	-	-	10250	-	-	-
E 70/32	-	-	9060	-	-	11125	-	-	-