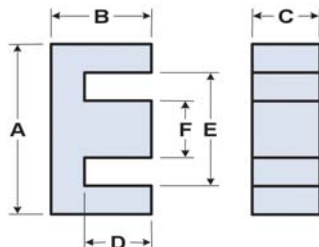


EF12.6, EF16, E 187, EF20, EF25, EF32, E33/13, E 375, E42/15, E42/20, E55/21, E65/27

The E core geometry offers an economical design approach for inductive applications in a variety of power designs.



- E cores can be supplied with the center post gapped to a mechanical dimension or an A_L value.
- A_L value is measured at 1 kHz, $B < 10$ gauss.
- Weight indicated is per pair or set.

Legend: Symbols & Definition

Dimensions (Top numbers are in millimeters, bottom numbers are in nominal inches.)

$\Sigma \ell/A$: Core Constant, ℓ_e : Effective Path Length, A_e : Effective Cross-Sectional Area, V_e : Effective Core Volume, A_L : Inductance Factor ($\frac{L}{N^2}$)

Explanation of part numbers: Digits 1 & 2 = product class, 3 & 4 = material grade.

Dimensions

Row #	Part Number	Generic Size	A	B	C	D	E	F	Wt. (g) per Set
(1)	9478102002 9498102002	EF12.6	12.70 ±0.35 0.500	6.35 ±0.15 0.250	3.60 ±0.2 0.142	4.65 ±0.15 0.183	8.80 min 0.346 min	3.60 ±0.2 0.142	1.80
(2)	9478101002 9498101002	EF16	16.10 ±0.6 0.634	8.05 ±0.2 0.317	4.50 ±0.2 0.177	5.90 ±0.2 0.232	11.30 min 0.445 min	4.55 ±0.15 0.179	4.00
(3)	9478103002 9498103002 9495103002	E19/5	19.00 ±0.4 0.748	8.00 ±0.3 0.315	4.80 ±0.3 0.189	5.75 ±0.25 0.226	13.80 min 0.543 min	4.50 ±0.3 0.177	4.60
(4)	9478104002 9498104002	EF20	20.00 ±0.6 0.787	9.90 ±0.2 0.390	5.65 ±0.25 0.222	7.20 ±0.2 0.283	14.10 min 0.555 min	5.70 ±0.2 0.224	7.40
(5)	9478105002 9498105002	EF25	25.05 ±0.65 0.986	12.55 ±0.25 0.494	7.20 ±0.3 0.283	8.95 ±0.25 0.352	17.50 min 0.689 min	7.25 ±0.25 0.285	16.00
(6)	9478110002 9498110002 9495110002	EF32	32.10 ±0.6 1.264	16.10 ±0.3 0.634	9.15 ±0.35 0.360	11.50 ±0.3 0.453	22.70 min 0.894 min	9.20 ±0.3 0.362	32.00
(7)	9478111002 9498111002 9495111002	E33/13	33.00 ±0.6 1.299	14.00 ±0.3 0.551	12.70 ±0.3 0.500	9.60 ±0.3 0.378	22.80 min 0.898 min	9.70 ±0.3 0.382	40.20
(8)	9478112002 9498112002 9495112002	E35/9	34.50 ±1 1.358	14.35 ±0.35 0.565	9.50 ±0.4 0.374	9.70 ±0.3 0.382	25.40 min 1.000 min	9.40 ±0.3 0.370	29.90
(9)	9478114002 9498114002	E42/15	42.00 ±0.7 1.654	21.20 ±0.3 0.835	14.90 ±0.3 0.587	15.15 ±0.3 0.596	29.50 min 1.161 min	11.90 ±0.3 0.469	88.00
(10)	9478115002 9498115002	E42/20	42.00 ±0.7 1.654	21.20 ±0.3 0.835	19.85 ±0.35 0.781	15.15 ±0.3 0.596	29.50 min 1.161 min	11.90 ±0.3 0.469	112.00
(11)	9478116002 9498116002	E55/21	55.15 ±1.05 2.171	27.50 ±0.3 1.083	20.60 ±0.4 0.811	18.80 ±0.3 0.740	37.50 min 1.476 min	16.95 ±0.25 0.667	216.00
(12)	9478117002 9498117002	E65/27	65.20 ±1.3 2.567	32.50 ±0.3 1.280	26.90 ±0.5 1.059	22.55 ±0.35 0.888	44.20 min 1.740 min	19.65 ±0.35 0.774	410.00

Magnetic Core Parameters

Table Continued ...

Row #	Part Number	$\sum lA(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_{\min}(\text{cm}^2)$	$A_L(\text{nH})$
(1)	9478102002 9498102002	23.40	2.96	0.127	0.376	0.122	800 ±25% 800 ±25%
(2)	9478101002 9498101002	19.30	3.77	0.196	0.739	0.189	950 ±25% 1000 ±25%
(3)	9478103002 9498103002 9495103002	18.10	3.99	0.22	0.878	0.216	1150 ±25% 1200 ±25% 1400 ±25%
(4)	9478104002 9498104002	15.00	4.63	0.309	1.43	0.30	1400 ±25% 1450 ±25%
(5)	9478105002 9498105002	11.40	5.79	0.509	2.95	0.49	1800 ±25% 1900 ±25%
(6)	9478110002 9498110002 9495110002	9.07	7.45	0.821	6.11	0.79	2600 ±25% 2800 ±25% 3350 ±25%
(7)	9478111002 9498111002 9495111002	5.60	6.65	1.19	7.90	1.12	4000 ±25% 4200 ±25% 5000 ±25%
(8)	9478112002 9498112002 9495112002	8.10	6.97	0.86	5.99	0.79	2800 ±25% 2900 ±25% 3500 ±25%
(9)	9478114002 9498114002	5.53	9.79	1.77	17.30	1.74	4300 ±25% 4600 ±25%
(10)	9478115002 9498115002	4.17	9.79	2.35	23.10	2.31	5200 ±25% 5200 ±25%
(11)	9478116002 9498116002	3.50	12.40	3.49	43.10	3.42	6500 ±25% 6500 ±25%
(12)	9478117002 9498117002	2.80	14.70	5.31	78.10	5.29	7600 ±25% 7900 ±25%