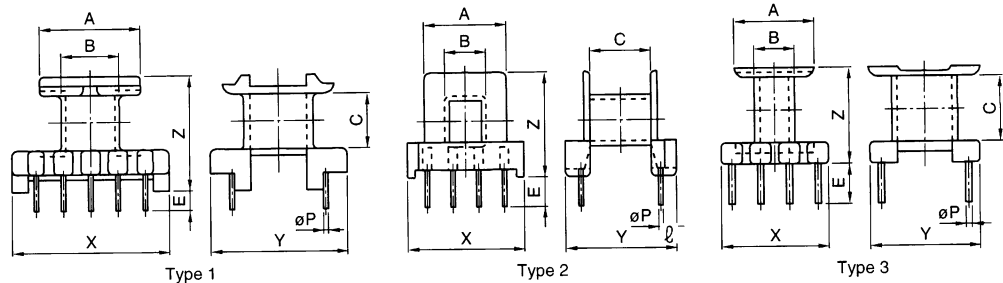
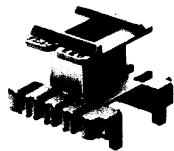


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For Switching Power Supplies

E Cores

EE and EI Bobbins

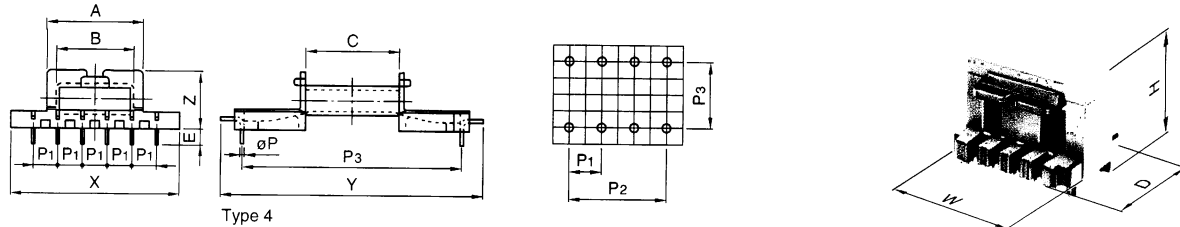


Part No.	Type	Dimensions in						
		A	B	C	E	X	Y	Z
BE8-116CPHFR	2	5.8 .228	3.0 .118	4.78 .188	2.7 .106	8.0 .315	8.8 .346	8.4 .331
BE10-118CPSFR	3	7.2 .283	3.5 .138	6.6 .260	3.85 .152	10.2 .402	10.2 .402	9.0 .354
BE12.5-1110CPFR	1	8.5 .335	3.6 .142	3.5 .138	3.25 .128	12.35 .486	12.35 .486	8.3 .327
BE13-1110CPSFR	3	10.0 .394	4.0 .157	7.4 .291	3.7 .146	12.1 .476	12.5 .492	10.4 .409
BE16-116CPFR	3	11.5 .453	5.15 .203	8.5 .335	3.8 .150	11.5 .453	13.0 .512	11.5 .453
BE16-118CPHFR	2	11.4 .449	5.15 .203	8.6 .339	4.0 .157	15.0 .591	13.4 .528	13.4 .528
BE16-1110CPNFR	1	11.35 .447	5.65 .222	8.15 .321	3.8 .150	16.0 .630	13.0 .512	13.85 .545
BES-16-1110CPSFR	3	12.2 .480	4.6 .181	8.7 .343	5.0 .197	15.9 .426	14.0 .551	11.7 .461
BE19-116CPFR	3	13.8 .543	5.8 .228	9.1 .358	5.0 .197	13.8 .543	16.5 .650	12.0 .472
BE19-118CPHFR	2	14.0 .551	6.65 .262	9.0 .354	6.0 .236	20.0 .787	16.2 .638	18.6 .732
BE22-118CPFR	1	12.5 .492	7.9 .311	8.45 .332	6.0 .236	22.0 .866	17.0 .669	17.5 .689
BE22/19/6-118CPFR	1	15.2 .598	7.9 .311	8.45 .332	6.0 .236	22.0 .866	17.0 .669	17.3 .681
BE25-118CPFR	1	18.1 .713	9.1 .358	9.8 .386	6.0 .236	25.0 .984	18.0 .709	19.3 .760
BE28-1110CPLFR	1	18.1 .713	9.9 .390	9.6 .378	7.0 .276	28.0 1.102	25.0 .984	20.6 .811
BE30-1110CPFR	1	19.2 .756	13.1 .516	13.7 .539	7.0 .276	30.0 1.181	25.0 .984	25.6 1.008
BE30-1112CPFR	1	19.4 .764	13.1 .516	13.7 .539	7.0 .276	30.0 1.181	25.0 .984	25.6 1.008
BE33-1112CPLFR	1	23.1 .909	12.4 .488	16.6 .654	7.0 .276	33.0 1.299	28.0 1.102	28.6 1.126
BE35-1112CPLFR	1	24.0 .945	12.7 .500	15.7 .618	7.0 .276	35.0 1.378	25.0 .984	28.7 1.130
BE40-1112CPFR	1	26.5 1.043	14.0 .551	17.3 .681	7.0 .276	36.0 1.417	30.0 1.181	30.5 1.201
BE40-1112CPNFR	1	26.5 1.043	14.0 .551	17.3 .681	7.0 .276	36.0 1.417	30.0 1.181	30.5 1.201
BE50-1112CPFR	1	33.2 1.307	17.2 .677	21.3 .839	9.0 .354	50.0 1.969	36.0 1.417	36.65 1.443
BE60-1112CPFR	1	43.3 1.705	18.5 .728	23.8 .937	10.0 .394	56.0 2.205	45.0 1.772	38.9 1.531
BE50.3-1112CPHFR	4	29.1 1.146	22.3 .878	28.25 1.112	4.5 .177	51.0 2.008	74.79 2.944	16.2 .638
BE62.3-1112CPHFR	4	35.1 1.382	28.3 1.114	33.85 1.333	4.5 .177	63.0 2.480	85.6 3.370	16.2 .638

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EE and EI Bobbins

For Switching Power Supplies
E Cores



* Please see the former page additionally.

t*	øP (mm)	P1 (mm)	P2 (mm)	P3 (mm)	Terminal pins	Parameter			Wt (g)	Accessory item
						w D (mm) H	Aw (mm ²)	ℓ w (mm)		
0.35 .014	0.6	2.5	5.0	7.0	6	8.3 8.0 8.0	5.3	19.9	0.26	—
0.40 .016	0.5	2.5	7.7	8.0	8	10.4 10.2 11.2	12.2	23.8	0.34	—
0.325 .013	0.6	(2.5, 2.6)	10.0	7.5	10	12.7 12.5 9.1	8.6	27.2	0.64	—
0.40 .016	0.6	2.5	10.0	8.5	10	13.2 12.7 12.3	22.2	31.3	0.63	—
0.375 .015	0.6	3.1	6.2	9.2	6	16.3 13.1 14.6	27.3	32.5	0.63	—
0.325 .013	0.6	3.0	9.0	11.0	8	16.5 14.6 13.6	26.7	33.1	0.84	—
0.55 .022	0.6	3.25	13.0	10.5	10	16.3 13.1 15.6	23.2	33.0	1.2	—
0.40 .016	0.6	3.3	13.2	11.0	10	16.3 14.1 16.3	33.1	37.1	1.0	—
0.35 .014	0.5	4.0	8.0	12.5	6	20.3 16.7 16.2	36.4	36.8	0.95	—
0.80 .031	0.8	5.08	15.24	12.7	8	20.3 18.2 15.8	33.1	39.1	2.4	—
0.80 .031	0.8	5.0	15.0	12.5	8	22.3 17.1 20.1	20.0	38.6	2.3	—
0.80 .031	0.8	5.0	15.0	12.5	8	22.4 17.1 19.1	31.5	42.8	2.7	—
0.75 .030	0.8	5.0	15.0	12.5	8	25.8 18.1 20.5	42.5	49.4	3.5	—
0.80 .031	0.8	5.0	20.0	17.5	10	28.5 25.1 22.7	39.4	59.1	5.0	—
0.80 .031	0.8	5.0	20.0	20.0	10	30.4 25.1 28.6	44.5	61.0	4.9	FE-30-F FE-30-G
0.80 .031	0.8	5.0	25.0	20.0	12	30.4 25.1 28.6	43.2	58.0	6.2	—
0.80 .031	0.8	5.0	25.0	22.5	12	33.5 28.1 31.2	88.8	72.3	6.8	—
0.80 .031	0.8	5.0	25.0	20.0	12	35.5 25.1 30.9	88.7	68.5	7.7	—
0.80 .031	1.0	5.0	25.0	25.0	12	40.5 30.2 35.8	108.0	76.0	9.7	FE-40-F FE-40-G
0.80 .031	1.0	5.0	25.0	22.5	12	40.5 30.2 35.7	108.1	75.6	9.8	—
0.80 .031	1.0	7.5	37.5	27.5	12	50.7 36.2 43.6	170.0	94.0	17	FE-50-F FE-50-G
0.80 .031	1.0	7.5	37.5	35.0	12	50.8 45.2 45.1	294.0	113.0	29	FE-60-F FE-60-G
0.80 .031	0.9	7.5	37.5	60	12	52 16.2	96.05	76	16	—
0.80 .031	0.9	7.5	37.5	72.5	12	64 88 16.2	115.09	88	22	—

UL Grade: 94V-0. Material: FR phenol. Pin material: Steel wire (Solder plated)

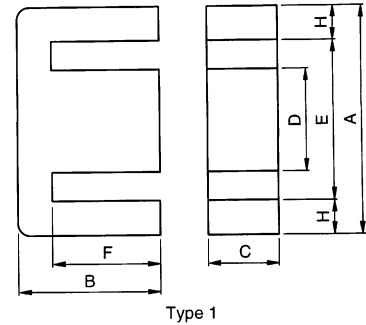
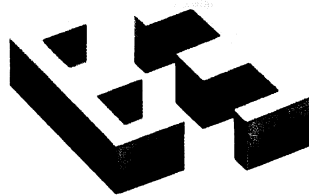
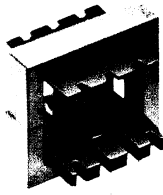
Maximum number of turns N that can be wound on bobbins, see section of "Maximum number of Turns on Bobbins".

* Minimum thickness of bobbin inside which core is placed, including flanges.

• All specifications are subject to change without notice.

Ferrite**EE and EF Series**

For Switching Power Supplies
E Cores



Part No.	U.S. lam. cores, DIN standard JIS		Type	Dimensions in mm inches						
	A	B		C	D	E min.	F	H		
PC40EF32-Z	DIN 41985		1	32.1±0.8 1.264±.031	16.1±0.3 .634±.012	9.15±0.35 .360±.014	9.2±0.3 .362±.012	22.7 .894	11.6±0.3 .457±.012	4.4 .173
PC40EE35/28B-Z	U.S. EE-375		1	34.6±0.5 1.362±.020	14.27±0.37 .562±.014	9.31±0.30 .367±.012	9.4±0.3 .370±.012	25.0 .984	9.78±0.25 .385±.010	4.5 .177
PC40EE35-Z	JIS FEE35B		1	34.54±1.0 1.360±.039	14.35±0.35 .564±.014	9.53±0.38 .375±.015	9.39±0.27 .370±.011	24.89 .980	9.71±0.28 .382±.011	4.75 .187
PC40EE40-Z	JIS FEE40A		1	40.0±0.5 1.575±.020	17.0±0.3 .669±.012	10.7±0.3 .421±.012	10.7±0.3 .421±.012	27.4 1.079	10.25±0.25 .404±.010	6.0 .236
PC40EE41/33C-Z	U.S. EE-21		1	41.07±0.8 1.617±.031	16.78±0.4 .661±.016	12.57±0.38 .495±.015	12.64±0.45 .498±.018	28.55 1.124	10.38±0.3 .409±.012	6.0 .236
PC40EE42/42/15-Z	DIN 41295	JIS FEE42A	1	42.15±0.85 1.659±.033	21.0±0.2 .827±.008	14.95±0.25 .589±.010	11.95±0.25 .470±.010	29.5 1.161	15.15±0.35 .596±.014	6.025 .237
PC40EE42/42/20-Z	DIN 41295	JIS FEE42B	1	42.15±0.85 1.659±.033	21.0±0.2 .827±.008	19.7±0.3 .776±.012	11.95±0.25 .470±.010	29.5 1.161	15.15±0.35 .596±.014	6.025 .237
PC40EE47/39-Z	U.S. EE-625		1	47.12±0.48 1.855±.019	19.63±0.2 .773±.008	15.62±0.25 .615±.010	15.62±0.25 .615±.010	31.72 1.249	12.2±0.13 .480±.005	7.49 .295
PC40EE50-Z	JIS FEE50A		1	50.0 ^{+1.0} _{-0.7} 1.969 ^{-.039} _{-.026}	21.3±0.3 .839±.012	14.6±0.4 .575±.016	14.6±0.4 .575±.016	34.2 1.346	12.75±0.25 .502±.010	7.5 .295
PC40EE55/55/21-Z	DIN 41295	JIS FEE55	1	55.15±1.05 2.17±.041	27.5±0.3 1.083±.012	20.7±0.3 .815±.012	16.95±0.25 .667±.010	37.5 1.476	18.8±0.3 .740±.012	8.53 .336
PC40EE57/47-Z	U.S. EE-75		1	56.57±1.00 2.227±.039	23.60±0.23 .929±.009	18.8±0.25 .740±.010	18.80±0.25 .740±.010	38.1 1.500	14.63±0.15 .576±.006	9.02 .355
PC40EE60-Z	JIS FEE60A		1	60.0 ^{+1.1} _{-0.8} 2.362 ^{+.043} _{-.031}	22.3±0.3 .878±.012	15.6±0.4 .614±.016	15.6±0.4 .614±.016	43.8 1.724	14.05±0.25 .553±.010	7.7 .303
PC40EE50.3/51/6-Z			1	50.3±0.8 1.980±.031	25.6±0.25 1.008±.010	6.1 ^{-0.4} _{-0.2} .240 ^{-.016} _{-.008}	19.9±0.35 .783±.014	29.5 1.161	15.9±0.25 .626±.010	10 .394
PC40EE62.3/62/6-Z			1	62.3±1.2 2.453±.047	31.0±0.25 1.220±.010	6.1 ^{-0.4} _{-0.2} .240 ^{-.016} _{-.008}	25.3±0.5 .996±.020	35.9 1.413	18.7±0.25 .736±.010	12.6 .496

* Please see the next page additionally.

Ferrite

For Switching Power Supplies

E Cores

EE and EF Series

* Please see the former page additionally.

Effective parameter				Electrical characteristics			Wt (g)	Bobbin item
C ₁ (mm ⁻¹)	A _e (mm ²)	ℓ _e (mm)	V _e (mm ³)	AL-value (nH/N ²) [*]		Core loss (W) max. 100kHz, 200mT, 100°C		
				Without air gap	With air gap			
0.893	83.2	74.3	6180	2590±25%	160±5% 250±7%	2.90	32	—
0.819	84.9	69.6	5907	2950±25%	200±5% 400±7%	2.33	28	—
0.774	89.3	69.2	6179	3170±25%	200±5% 400±7%	3.00	33	—
0.606	128	77.3	9890	4150±25%	200±5% 400±7%	4.20	50	BE40-1112CPFR BE40-1112CPNFR BE-40-5112
0.495	157	77.6	12165	5060±25%	200±5% 400±7%	5.80	64	—
0.547	178	97.4	17400	4700±25%	250±5% 400±7%	8.00	80	—
0.415	235	97.4	22900	6100±25%	250±5% 400±7%	10.4	116	—
0.374	242	90.6	21930	6660±25%	250±5% 400±7%	9.70	108	—
0.425	226	95.8	21600	6110±25%	250±5% 400±7%	9.40	116	BE50-1112CPFR BE-50-5112
0.348	354	123	43700	7100±25%	250±5% 400±7%	11.0**	234	—
0.297	344	102	35100	8530±25%	250±5% 400±7%	8.5**	190	—
0.446	247	110	27100	5670±25%	250±5% 500±7%	12.5	135	BE60-1112CPFR BE-60-5112
0.868	121	105	12700	2900±25%	200±5% 400±7%	5.83	68	BE50.3-1112CPHFR
0.823	153	126	19300	3100±25%	200±5% 400±7%	8.85	102	BE62.3-1112CPHFR

^{*} AL-value: 1kHz, 0.5mA, 100Ts

^{**} Core loss: 100kHz, 150mT, 100°C