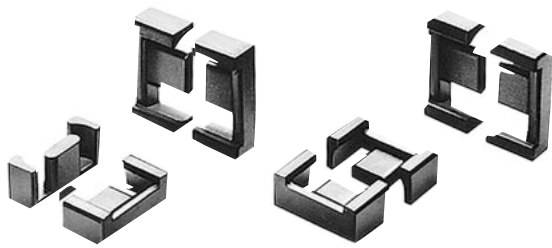
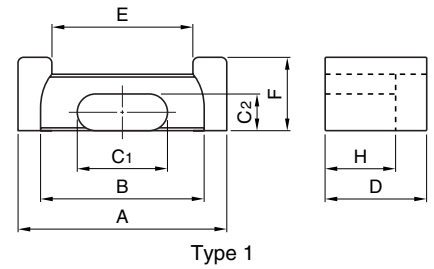


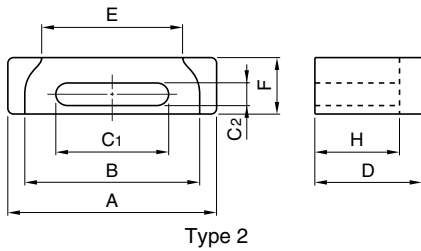
EPC CORES



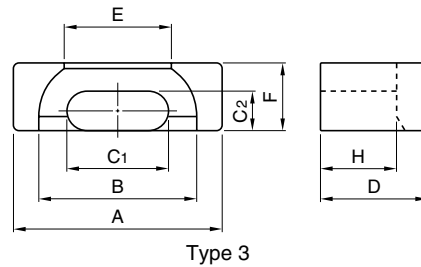
US. PAT. 4,760,366
EP. PAT. 245,083(DE, FR, GB, NL)
KS. UM 50,836
TW. UM 39,406
JP. PENDING



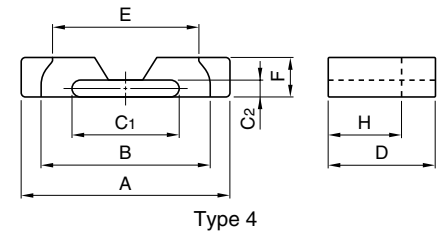
Type 1



Type 2



Type 3



Type 4

Part No.	Type	Dimensions in							
		mm		inches					
		A	B	C ₁	C ₂	D	E	F	H
			min.				min.		
PC44EPC10-Z	3	10.2±0.2	7.6	5.0±0.1	1.9±0.1	4.05±0.10	5.3	3.4±0.1	2.65±0.10
PC50EPC10-Z		.402±.008	.299	.197±.004	.075±.004	.159±.004	.209	.139±.004	.104±.004
PC44EPC13-Z	1	13.25±0.3	10.5	5.60±0.15	2.05±0.10	6.6±0.2	8.3	4.60±0.15	4.5±0.2
PC50EPC13-Z		.522±.012	.413	.220±.006	.081±.004	.026±.008	.327	.181±.006	.177±.008
PC44EPC17-Z	1	17.6±0.4	14.3	7.70±0.15	2.8±0.1	8.55±0.20	11.5	6.00±0.15	6.05±0.20
PC50EPC17-Z		.693±.016	.563	.303±.006	.110±.004	.337±.008	.453	.236±.006	.238±.008
PC44EPC19-Z	1	19.1±0.4	15.8	8.50±0.15	2.5±0.1	9.75±0.20	13.1	6.00±0.15	7.25±0.20
PC50EPC19-Z		.752±.016	.622	.335±.006	.098±.004	.384±.008	.516	.236±.006	.285±.008
PC44EPC25-Z	1	25.1±0.5	20.65	11.5±0.2	4.0±0.1	12.5±0.2	17.1	8.0±0.2	9.0±0.3
PC50EPC25-Z		.988±.020	.813	.453±.008	.157±.004	.492±.008	.673	.315±.008	.354±.012
PC44EPC25B-Z	2	25.1±0.5	20.4	13.8±0.2	2.50±0.15	11.43±0.15	16.5	6.5±0.2	8.78±0.15
PC50EPC25B-Z		.988±.020	.803	.543±.008	.098±.006	.450±.006	.650	.266±.008	.346±.006
PC44EPC27-Z	1	27.1±0.5	21.6	13.0±0.3	4.0±0.1	16.0±0.2	18.5	8.0±0.2	12.0±0.3
PC50EPC27-Z		1.067±.020	.850	.512±.012	.157±.004	.630±.008	.728	.315±.008	.472±.012
PC44EPC27N-Z	4	27.0±0.4	20.8	13.85±0.15	2.2±0.1	13.0±0.1	19.0	5.1±0.1	8.5±0.1
		1.063±.016	.819	.545±.006	.087±.004	.512±.004	.748	.201±.004	.335±.004
PC44EPC30-Z	1	30.1±0.5	23.6	15.0±0.3	4.0±0.1	17.5±0.2	20.0	8.0±0.2	13.0±0.3
PC50EPC30-Z		1.185±.020	.929	.591±.012	.157±.004	.689±.008	.787	.315±.008	.512±.012

Part No.	Effective parameter				Electrical characteristics			Wt (g)	Bobbin item
	C ₁ (mm ⁻¹)	A _e (mm ²)	∅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			
PC44EPC10-Z	1.89	9.39	17.8	167	1000±25%	40±7%	0.072	1.1	BEPC10-118GAFR
PC50EPC10-Z					660±25%	63±10%			
PC44EPC13-Z	2.45	12.5	30.6	382	870±25%	40±4%	0.14	2.1	BEPC13-1110CPHFR BEPC13-1110GAFR
PC50EPC13-Z					560±25%	63±5%			
PC44EPC17-Z	1.76	22.8	40.2	917	1150±25%	80±4%	0.35	4.5	BEPC17-1110CPHFR BEPC17-119GAFR
PC50EPC17-Z					740±25%	125±5%			
PC44EPC19-Z	2.03	22.7	46.1	1050	940±25%	80±4%	0.4	5.3	BEPC19-1111CPHFR BEPC19-1110GAFR
PC50EPC19-Z					680±25%	125±5%			
PC44EPC25-Z	1.28	46.4	59.2	2750	1560±25%	125±5%	1.11	13	BEPC25-1111CPHFR
PC50EPC25-Z					1080±25%	200±7%			
PC44EPC25B-Z	1.39	33.3	46.2	1540	1560±25%	80±5%	0.65	11	BEPC25B-1111GAFR
PC50EPC25B-Z					1080±25%	125±7%			
PC44EPC27-Z	1.34	54.6	73.1	4000	1540±25%	125±5%	1.56	18	BEPC27-1111CPHFR
PC50EPC27-Z					1030±25%	200±7%			
PC44EPC27N-Z	1.70	33.0	55.9	1840	1400±25%	80±5% 125±7%	0.73	10	BEPC27N-1114CPHFR
PC44EPC30-Z	1.34	61.0	81.6	4980	1570±25%	125±5%	2.03	23	BEPC30-1112CPHFR
PC50EPC30-Z					1060±25%	200±7%			

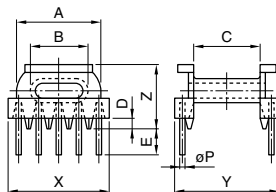
* AL-value: 1kHz, 0.5mA, 100Ts

** Core loss: 500kHz, 50mT, 100°C

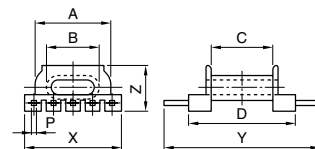
EPC BOBBINS



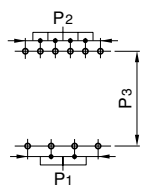
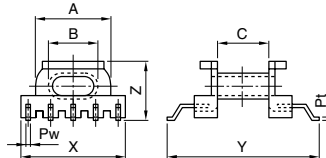
Lead through type



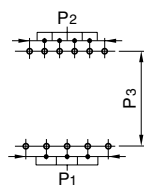
Drop in type



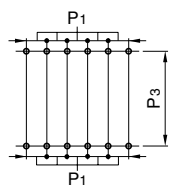
SMD type



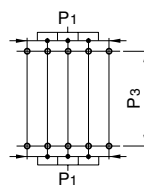
Type 1



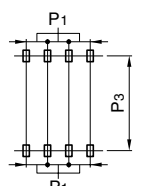
Type 2



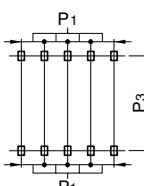
Type 3



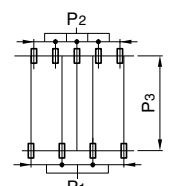
Type 4



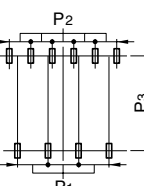
Type 6



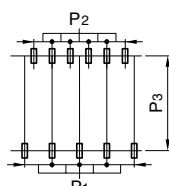
Type 7



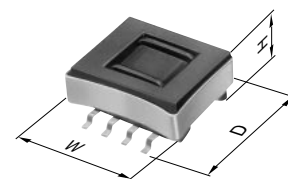
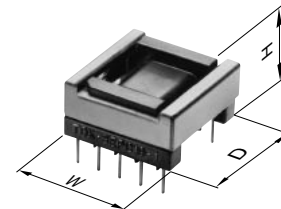
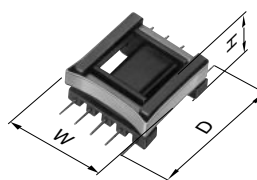
Type 8



Type 9



Type 10



• All specifications are subject to change without notice.

EPC BOBBINS

Lead through type

Part No.	Dimensions in								
	mm inches								
	A	B	C	D	E	X	Y	Z	t*
BEPC13-1110CPHFR	10.23 .403	6.93 .273	6.88 .271	0.9 .035	2.5 .098	13.2 .520	13.2 .520	7.5 .295	0.5 .020
BEPC17-1110CPHFR	14.07 .554	9.88 .389	9.55 .376	2.5 .098	4.5 .177	17.2 .677	17.5 .689	11.9 .469	0.9 .035
BEPC19-1111CPHFR	15.58 .613	10.68 .420	12.04 .474	2.5 .098	4.5 .177	18.7 .736	19.0 .748	11.9 .469	0.9 .035
BEPC25-1111CPHFR	20.39 .803	13.73 .541	14.7 .579	3.0 .118	4.5 .177	25.0 .984	25.0 .984	16.0 .630	0.9 .035
BEPC27-1111CPHFR	21.33 .840	15.33 .604	20.7 .815	3.0 .118	4.5 .177	27.0 1.063	32.0 1.260	16.0 .630	0.8 .031
BEPC27N-1114CPHFR	20.5 .807	15.9 .623	14.1 .555	0.3 .012	3.5 .138	28.2 1.110	29.8 1.173	8.7 .343	0.9 .035
BEPC30-1112CPHFR	23.33 .919	17.33 .682	22.7 .894	3.0 .118	4.5 .177	30.0 1.181	35.0 1.378	16.0 .630	0.9 .035

Part No.	Dimensions in mm						Parameter		Wt (g)	Connecting pin pattern
	øP (mm)	P ₁ (mm)	P ₂ (mm)	P ₃ (mm)	Terminal pins	W D (mm) H	Aw (mm ²)	ℓ w (mm)		
BEPC13-1110CPHFR	∅0.49	2.5	—	10.5	10	13.9 14.8 7.7	11.2	23.0	0.57	Type 4
BEPC17-1110CPHFR	∅0.49	3.75	2.5	15.0	10	18.2 19.1 12.1	20.1	32.1	1.5	Type 1
BEPC19-1111CPHFR	∅0.49	3.75	2.5	16.25	11	20.0 21.5 12.1	29.3	34.4	1.6	Type 2
BEPC25-1111CPHFR	0.8	5.0	3.75	20.0	11	26.1 27.0 16.2	54.4	45.0	3.9	Type 2
BEPC27-1111CPHFR	0.8	5.0	3.75	27.5	11	28.1 34.0 16.2	62.1	47.2	4.7	Type 2
BEPC27N-1114CPHFR	0.8	3.75	—	25.0	14	29.0 36.5 9.0	32.4	43.7	3.1	Type 3
BEPC30-1112CPHFR	1.0	5.0	—	30.0	12	31.1 37.0 16.2	68.1	51.1	6.0	Type 3

UL Grade: 94V-0, Material: FR phenol, Pin material: Steel wire (Solder plated), Phosphor bronze (Solder plated) for BEPC25B-1111GAFR only. 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.

EPC BOBBINS

SMD type

Part No.	Dimensions in								
	mm inches								
	A	B	C	D	E	X	Y	Z	t*
BEPC10-118GAFR	7.5 .295	5.95 .234	3.9 .154	—	—	10.8 .425	11.5 .453	4.85 .193	0.35 .014
BEPC13-1110GAFR	10.3 .406	6.93 .273	6.9 .272	—	—	14.0 .551	20.4 .803	7.02 .276	0.5 .020
BEPC17-119GAFR	14.1 .555	9.9 .390	9.6 .378	—	—	17.5 .689	23.0 .906	9.8 .386	0.8 .031
BEPC19-1110GAFR	15.4 .606	10.7 .421	12.0 .472	—	—	20.0 .787	25.0 .984	9.75 .384	0.8 .031
BEPC25B-1111GAFR	20.1 .791	15.7 .618	14.7 .579	—	—	25.0 .984	28.7 1.130	9.8 .386	0.8 .031

Part No.	Dimensions in mm						Parameter		Wt (g)	Connecting pin pattern
	Pt×Pw (mm)	P1 (mm)	P2 (mm)	P3 (mm)	Terminal pins	W D (mm) H	Aw (mm ²)	ℓ w (mm)		
BEPC10-118GAFR	0.3×0.5	2.0	—	10.8	8	11.0 11.7 5.2	3.2	17.5	0.14	Type 6
BEPC13-1110GAFR	0.4×0.7	3.0	—	18.5	10	14.2 20.6 7.3	11.6	23.1	0.6	Type 7
BEPC17-119GAFR	0.4×0.7	5.0	3.5	21.8	9	18.2 23.2 9.9	20.1	32.1	1.1	Type 8
BEPC19-1110GAFR	0.4×0.7	5.0	3.5	23.8	10	20.2 25.2 9.9	28.2	34.4	1.3	Type 9
BEPC25B-1111GAFR	0.4×0.8	5.0	3.5	27.5	11	26.1 28.9 9.9	32.3	44.3	1.9	Type 10

UL Grade: 94V-0, Material: FR phenol, Pin material: Steel wire (Solder plated), Phosphor bronze (Solder plated) for BEPC25B-1111GAFR only.
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.

Drop in type

Part No.	Dimensions in								
	mm inches								
	A	B	C	D	E	X	Y	Z	t*
BEPC19-1110SAFR	15.6 .611	10.7 .413	12.0 .480	18.6 .835	—	20.0 .768	26.0 1.228	9.55 .337	0.8 .031
BEPC25B-1111SFR	20.1 .791	15.7 .618	14.7 .579	21.7 .854	—	25.0 .984	37.7 1.484	9.60 .378	0.8 .031

Part No.	Dimensions in mm						Parameter		Wt (g)	Connecting pin pattern
	Pt×Pw (mm)	P1 (mm)	P2 (mm)	P3 (mm)	Terminal pins	W D (mm) H	Aw (mm ²)	ℓ w (mm)		
BEPC19-1110SAFR	0.4×0.7	5.0	3.5	22.3	10	20.2 26.2 9.8	28.2	34.4	1.3	Type 9
BEPC25B-1111SFR	0.4×0.7	5.0	3.5	29.7	11	26.0 37.9 9.5	30.9	50.5	2.1	Type 10

UL Grade: 94V-0, Material: FR phenol, Pin material: Steel wire (Solder plated), Phosphor bronze (Solder plated) for BEPC25B-1111GAFR only.
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.

EPC ACCESSORIES

Part No.	Dimensions in		C	D	E	t	Material
	A	B					
FEPC-10-A	10.8 .425	2.8 .110	1.5 .059	8.0 .315	0.8 .031	0.2 .008	Stainless steel
FEPC-13-A	13.7 .541	2.8 .110	2.9 .114	14.75 .581	2.65 .104	0.25 .010	Stainless steel
FEPC-17-A	18.1 .713	3.8 .150	2.9 .114	19.1 .752	3.0 .118	0.3 .012	Stainless steel
FEPC-19-A	19.9 .783	3.8 .150	2.9 .114	21.5 .846	3.0 .118	0.3 .012	Stainless steel
FEPC-25-A	26.0 1.024	5.6 .220	2.9 .114	27.0 1.063	3.0 .118	0.3 .012	Stainless steel
FEPC-25B-A	26.0 1.024	5.0 .197	2.9 .114	24.5 .965	3.0 .118	0.3 .012	Stainless steel
FEPC-27-A	28.0 1.102	5.6 .220	2.9 .114	34.0 1.339	3.0 .118	0.3 .012	Stainless steel
FEPC-30-A	31.0 1.220	5.6 .220	2.9 .114	37.0 1.457	3.0 .118	0.3 .012	Stainless steel

