

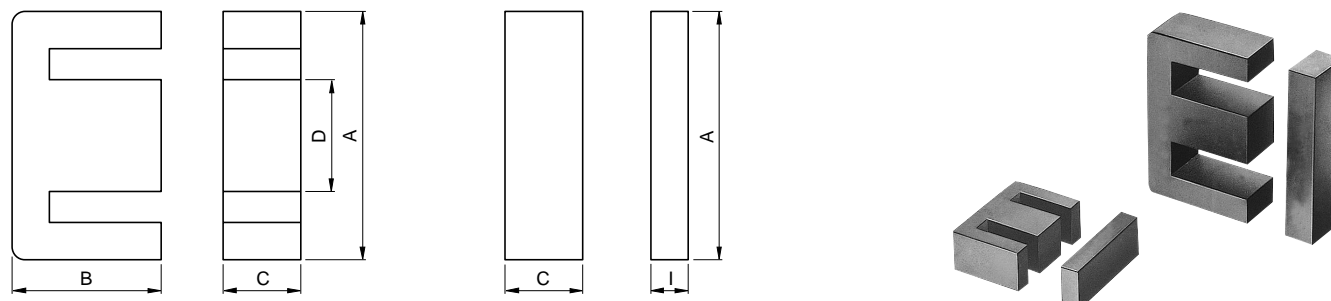
# Ferrite Cores

## For Power Supply

### EI Cores

## EI Series

### CORE SHAPES AND DIMENSIONS/CHARACTERISTICS



Type	Dimensions (mm)					Ae (mm <sup>2</sup> )	le (mm)	Weight (g)
	A	B	C	D	I			
EI12.5	12.4±0.3	7.4±0.1	4.85±0.15	2.4±0.1	1.5±0.1	14.4	21.3	1.9
EI16	16±0.3	12.2±0.2	4.8±0.2	4±0.2	2±0.2	19.8	34.6	3.3
EI19	20±0.3	13.55±0.25	5±0.2	4.55±0.15	2.3±0.1	24	39.6	5.1
EI22	22±0.3	14.55±0.25	5.75±0.25	5.75±0.25	4.5±0.2	42	39.3	9.8
EI22/19/6	22±0.4	14.7±0.2	5.75±0.25	5.75±0.25	4±0.2	37	41.8	8.5
EI25	25.3±0.5	15.55±0.25	6.75±0.25	6.5±0.3	2.7±0.2	41	47	9.8
EI28	28±0.5	16.75±0.25	10.6±0.2	7.2±0.3	3.5±0.3	86	48.2	22
EI30	30±0.4	21.25±0.25	10.7±0.3	10.7±0.3	5.5±0.2	111	58	34
EI33/29/13	33±0.5	23.75±0.25	12.7±0.3	9.7±0.3	5±0.3	118.5	67.5	41
EI35	35±0.5	24.25±0.25	10±0.3	10±0.3	4.6±0.3	101.4	67.1	36
EI40	40±0.5	27.25±0.25	11.65±0.35	11.65±0.35	7.5±0.3	148	77	60
EI50	50±0.7	33.35±0.35	14.6±0.4	14.6±0.4	9±0.3	230	94	115
EI60	60±0.8	35.85±0.35	15.6±0.4	15.6±0.4	8.5±0.3	247	109	139

### ELECTRICAL CHARACTERISTICS

#### WITHOUT AIR GAP

Part No.	AL-value (nH/N <sup>2</sup> ) [1kHz, 0.5mA, 100Ts]	Calculated output power* (W) [100kHz]
PC40EI12.5-Z	1200±25%	8.8
PC40EI16-Z	1100±25%	29
PC40EI19-Z	1400±25%	40
PC40EI22-Z	2400±25%	33
PC40EI22/19/6-Z	2000±25%	48
PC40EI25-Z	2140±25%	68
PC40EI28-Z	4300±25%	107
PC40EI30-Z	4690±25%	155
PC40EI33/29/13-Z	4400±25%	206
PC40EI135-Z	3800±25%	218
PC40EI140-Z	4860±25%	348
PC40EI150-Z	6110±25%	508
PC40EI160-Z	5670±25%	618

\*The values were obtained with forward converter mode.

#### WITH AIR GAP

Part No.	AL-value (nH/N <sup>2</sup> ) [1kHz, 0.5mA, 100Ts]
PC40EI12.5AXXX*	63±7%, 100±10%
PC40EI16AXXX	80±7%, 160±10%
PC40EI19AXXX	80±7%, 160±10%
PC40EI22AXXX	125±7%, 250±10%
PC40EI22/19/6AXXX	125±7%, 250±10%
PC40EI25AXXX	125±7%, 250±10%
PC40EI28AXXX	200±5%, 400±7%
PC40EI30AXXX	200±5%, 400±7%
PC40EI33/29/13AXXX	200±5%, 400±7%
PC40EI35AXXX	200±5%, 400±7%
PC40EI40AXXX	200±5%, 400±7%
PC40EI50AXXX	250±5%, 500±7%
PC40EI60AXXX	250±5%, 500±7%

\*XXX: AL-value

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### BOBBINS

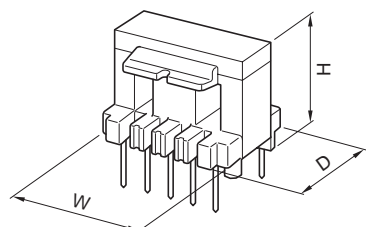


Fig. 1

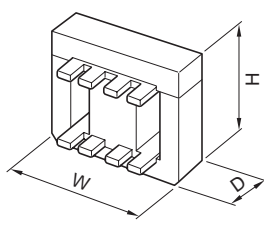


Fig. 2

#### WITH PIN TERMINAL (Fig. 1)

Part No.	No. of pin terminal	Dimensions (mm)			Clamp
		W	D	H	
BE-12.5-1110CP	10	12.7	12.5	9.1	
BE-16-116CP	6	16.3	13.1	14.6	
BE-16-118CPH	8	16.5	14.6	13.6	
BE-16-1110CPN	10	16.3	13.1	15.6	
BE-19-116CP	6	20.3	16.7	16.2	
BE-19-118CPH	8	20.3	16.2	18.8	
BE-22-118CP	8	22.3	17.1	20.1	
BE-22/19/6-118CP	8	22.4	17.1	19.1	
BE-25-118CP	8	25.8	18.1	20.5	
BE-28-1110CPL	8	28.5	25.1	22.7	
BE-30-1110CP	10	30.4	25.1	28.6	FE-30-F, FE-30-G
BE-30-1112CP	12	30.4	25.1	28.6	FE-30-F, FE-30-G
BE-33/29/13-1112CPL	12	33.5	28.1	31.2	
BE-35-1112CPL	12	35.5	25.1	30.9	
BE-40-1112CP	12	40.5	30.2	35.8	FE-40-F, FE-40-G
BE-40-1112CPN	12	40.5	30.2	35.7	
BE-50-1112CP	12	50.7	36.2	43.6	FE-50-F, FE-50-G
BE-60-1112CP	12	60.8	45.2	45.1	FE-60-F, FE-60-G

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

#### WITHOUT PIN TERMINAL (Fig. 2)

Part No.	Dimensions (mm)			Material [UL Grade]	Clamp
	W	D	H		
BE-19-5116	20.3	14.9	16.2	6-Nylon[94V-0]	
BE-22-5116	22.3	13.1	19.5	6-Nylon[94V-0]	
BE-25-5116	25.8	19.2	18.7	6-Nylon[94V-0]	
BE-30-5112	30.4	21.1	27.2	6-Nylon[94V-0]	FE-30-F, FE-30-G
BE-40-5112	40.5	29.4	35.3	6-Nylon[94V-0]	FE-40-F, FE-40-G
BE-50-5112	50.7	35.8	43	6-Nylon[94V-0]	FE-50-F, FE-50-G
BE-60-5112	60.8	46	45	6-Nylon[94V-0]	FE-60-F, FE-60-G

• Material: 6-Nylon, UL Grade: 94V-0