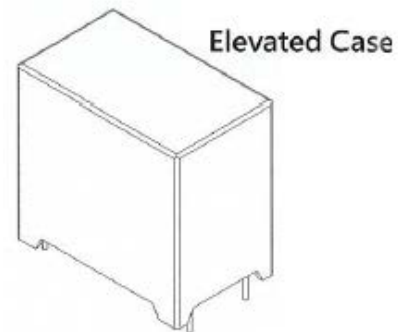
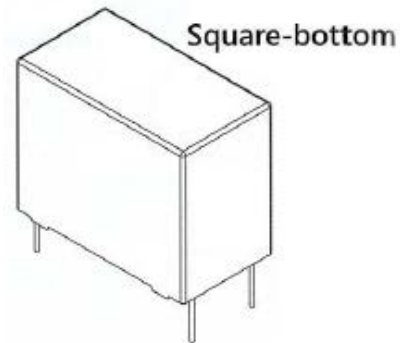


Type BLF AC Output Filter Capacitor

The BLF Series Film Capacitor is specifically designed for AC output filtering applications, making it ideal for systems such as Uninterruptible Power Supplies (UPS) and solar photovoltaic DC/AC inverters with LCL filters. This capacitor delivers high reliability and features excellent self-healing characteristics, ensuring long-term stability and performance. Its design minimizes energy loss with low ESR (Equivalent Series Resistance) and low losses, enhancing overall system efficiency.



Key Features

- High reliability and excellent self-healing characteristics

Applications

- AC output filter, e.g., UPS, Solar Photovoltaic DC/AC inverter with LCL filter

General Specifications

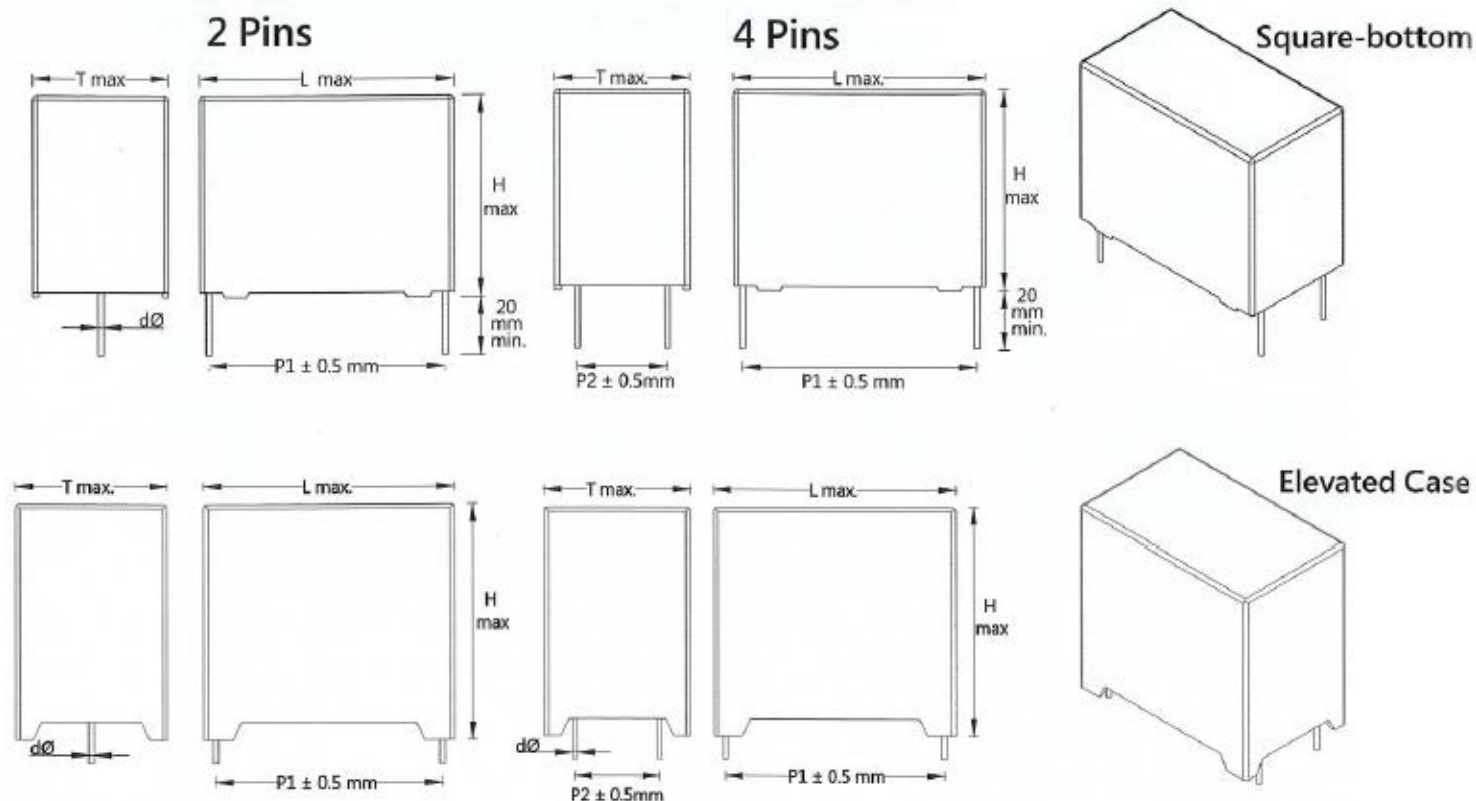
Parameter	Value
Capacitance	1μF – 60μF (other rating upon request)
Tolerance	±5% (J), ±10% (K), ±20% (M)
Rated Voltage	180VAC, 250VAC, 300VAC, 350VAC, 400VAC, and 440VAC
Temperature Range (operational)	-40°C to 105°C Derate DC voltage 1.5% / °C above 85°C to 105°C
Standards	UL Rated
Construction	Non-inductive wound metallized polypropylene film
Case	Flame retardant encased
Dielectric Strength	160% of rated voltage for 2 sec
Insulation Resistance	C < 0.33μF, R ≥ 30,000 MΩ at 20±3°C C ≥ 0.33μF, RC ≥ 10,000 MΩ x μF
Dissipation Factor	0.1% max at 1kHz 20±3°C

BLF

ASC Capacitors for Power Electronics



Outline Drawing



BLF Specifications

180VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
2.2	31.5	11.0	20.0	27.5		0.8	30
3.3	31.5	13.0	22.0	27.5		0.8	30
4.0	31.5	13.0	22.0	27.5		0.8	30
4.7	31.5	14.0	25.0	27.5		0.8	30
5.0	31.5	14.0	28.0	27.5		0.8	30
5.6	31.5	16.0	25.5	27.5		0.8	30
5.6	31.5	16.0	33.0	27.5		0.8	30
6.8	31.5	18.0	28.0	27.5		0.8	30
6.8	31.5	18.0	33.0	27.5		0.8	30
10.0	31.5	18.0	33.0	27.5		0.8	30
10.0	31.5	22.0	31.0	27.5		0.8	30
12.0	41.5	18.0	31.5	37.5		1.0	20
15.0	41.5	20.5	34.0	37.5		1.0	20
15.0	41.5	22.0	37.0	37.5		1.0	20
18.0	41.5	22.5	35.5	37.5		1.0	20
20.0	41.5	26.0	39.0	37.5	10.2	1.0	20

180VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
22.0	41.5	27.5	41.0	37.5		1.0	20
25.0	41.5	27.5	41.0	37.5		1.0	20
25.0	41.5	27.5	41.0	37.5	10.2	1.0	20
30.0	41.5	30.0	45.0	37.5	20.3	1.0	20
36.0	41.5	33.0	45.0	37.5		1.0	20
35.0	58.0	28.0	38.0	52.5	20.3	1.2	15
40.0	58.0	29.5	43.5	52.5	20.3	1.2	15
50.0	58.0	35.0	50.0	52.5	20.3	1.2	15
60.0	58.0	35.0	50.0	52.5	20.3	1.2	15

ASC Capacitors for Power Electronics

250VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
1.0	31.5	9.0	18.0	27.5		0.8	80
1.5	31.5	11.0	20.0	27.5		0.8	80
2.0	31.5	13.0	22.0	27.5		0.8	80
2.2	31.5	13.0	22.0	27.5		0.8	80
2.5	31.5	13.0	22.0	27.5		0.8	80
3.0	31.5	15.0	24.5	27.5		0.8	80
3.3	31.5	15.0	24.5	27.5		0.8	80
3.5	31.5	14.0	28.0	27.5		0.8	80
4.0	31.5	18.0	33.0	27.5		0.8	80
4.5	31.5	18.0	33.0	27.5		0.8	80
5.0	31.5	18.0	33.0	27.5		0.8	80
6.8	31.5	22.0	37.0	27.5		0.8	80
6.8	41.5	18.5	33.5	37.5		1.0	55
6.8	41.5	22.5	35.5	37.5		1.0	55
8.0	41.5	22.0	37.0	37.5		1.0	55
10.0	41.5	22.0	37.0	37.5		1.0	55
12.0	41.5	26.0	41.0	37.5		1.0	55
15.0	41.5	26.0	41.0	37.5		1.0	55
20.0	41.5	30.0	45.0	37.5		1.0	55
25.0	58.0	39.5	43.5	52.5	20.3	1.2	35
30.0	58.0	30.0	45.0	52.5	20.3	1.2	35
35.0	58.0	35.0	50.0	52.5	20.3	1.2	35
40.0	58.0	35.0	50.0	52.5	20.3	1.2	35
55.0	58.0	45.0	58.0	52.5	20.3	1.2	35

300VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
1.0	31.5	11.0	20.0	27.5		0.8	90
1.5	31.5	13.0	22.0	27.5		0.8	90
2.0	31.5	15.0	24.5	27.5		0.8	90
2.2	31.5	15.0	24.5	27.5		0.8	90
2.2	31.5	15.0	30.0	27.5		0.8	90
2.5	31.5	14.0	28.0	27.5		0.8	90
3.0	31.5	18.0	33.0	27.5		0.8	90
3.3	31.5	18.0	28.0	27.5		0.8	90
3.3	31.5	18.0	33.0	27.5		0.8	90
3.3	31.5	22.0	31.0	27.5		0.8	90
3.5	31.5	18.0	33.0	27.5		0.8	90
4.0	31.5	18.0	33.0	27.5		0.8	90
4.7	31.5	22.0	37.0	27.5		0.8	90
5.0	31.5	22.0	37.0	27.5		0.8	90
6.8	31.5	22.0	37.0	27.5		0.8	65

300VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
4.7	41.5	18.0	31.5	37.5		1.0	65
4.7	41.5	20.5	34.0	37.5	10.2	1.0	65
5.0	41.5	18.5	33.5	37.5		1.0	65
6.0	41.5	18.5	33.5	37.5		1.0	65
6.8	41.5	20.5	34.0	37.5	10.2	1.0	65
6.8	41.5	22.0	37.0	37.5		1.0	65
8.0	41.5	22.0	37.0	37.5		1.0	65
10.0	41.5	26.0	39.0	37.5	10.2	1.0	65
10.0	41.5	27.5	41.0	37.5		1.0	65
10.0	41.5	30.0	45.0	37.5		1.0	65
4.7	51.0	22.0	37.0	47.5		1.0	60
20.0	51.0	31.0	41.0	42.0	10.2	1.0	60
18.0	58.0	29.5	43.5	52.5	20.3	1.2	45
20.0	58.0	30.0	45.0	52.5	20.3	1.2	45
20.0	58.0	33.0	43.0	52.5	20.3	1.2	45
20.0	58.0	35.0	50.0	52.5	20.3	1.2	45
20.0	58.0	45.0	58.0	52.5	20.3	1.2	45
22.0	58.0	29.5	43.5	52.5	20.3	1.2	45
25.0	58.0	35.0	50.0	52.5	20.3	1.2	45
25.0	58.0	35.0	60.0	52.5	20.3	1.2	45
25.0	58.0	45.0	65.0	52.5	20.3	1.2	45
27.0	58.0	35.0	50.0	52.5	20.3	1.2	45
28.0	58.0	35.0	50.0	52.5	20.3	1.2	45
30.0	58.0	33.0	43.0	52.5	20.3	1.2	45
30.0	58.0	35.0	50.0	52.5	20.3	1.2	45
30.0	58.0	40.0	50.0	52.5	20.3	1.2	45
30.0	58.0	49.0	29.0	52.5	20.3	1.2	45
30.0	58.0	45.0	31.5	52.5	20.3	1.2	45
40.0	58.0	43.0	53.0	52.5	20.3	1.2	45
40.0	58.0	45.0	58.0	52.5	20.3	1.2	45
55.0	58.0	55.0	47.5	52.5	20.3	1.2	45

350VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
0.47	26.5	8.5	17.0	22.5		0.8	120
0.33	31.5	9.0	18.0	27.5		0.8	100
0.39	31.5	9.0	18.0	27.5		0.8	100
0.47	31.5	9.0	18.0	27.5		0.8	100
0.68	31.5	11.0	20.0	27.5		0.8	100
0.82	31.5	13.0	22.0	27.5		0.8	100
1.0	31.5	11.0	20.0	27.5		0.8	100
1.0	31.5	13.0	22.0	27.5		0.8	100

350VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
1.5	31.5	15.0	24.5	27.5		0.8	100
1.5	31.5	14.0	25.0	27.5		0.8	100
2.0	31.5	16.0	30.0	27.5		0.8	100
2.2	31.5	15.0	30.0	27.5		0.8	100
2.2	31.5	16.0	30.0	27.5		0.8	100
2.2	31.5	18.0	28.0	27.5		0.8	100
2.5	31.5	18.0	33.0	27.5		0.8	100
3.0	31.5	22.0	37.0	27.5		0.8	100
3.3	31.5	22.0	31.0	27.5		0.8	100
3.3	31.5	22.0	37.0	27.5		0.8	100
3.5	31.5	22.0	37.0	27.5		0.8	100
4.0	31.5	22.0	37.0	27.5		0.8	100
2.5	41.5	16.0	30.0	37.5		1.0	70
3.0	41.5	16.0	30.0	37.5		1.0	70
4.0	41.5	18.5	33.5	37.5		1.0	70
4.5	41.5	22.0	37.0	37.5		1.0	70
4.7	41.5	20.5	34.0	37.5	10.2	1.0	70
4.7	41.5	22.5	35.5	37.5		1.0	70
4.7	41.5	22.5	35.5	37.5	10.2	1.0	70
4.7	41.5	22.0	37.0	37.5		1.0	70
5.0	41.5	22.0	37.0	37.5		1.0	70
5.0	41.5	26.0	39.0	37.5		1.0	70
5.5	41.5	22.0	37.0	37.5		1.0	70
6.0	41.5	26.0	41.0	37.5		1.0	70
6.5	41.5	22.5	35.5	37.5		1.0	70
6.5	41.5	26.0	41.0	37.5		1.0	70
6.8	41.5	26.0	39.0	37.5	10.2	1.0	70
7.0	41.5	26.0	41.0	37.5		1.0	70
7.5	41.5	26.0	41.0	37.5		1.0	70
8.0	41.5	26.0	41.0	37.5		1.0	70
8.2	41.5	27.5	41.0	37.5	10.2	1.0	70
9.0	41.5	30.0	45.0	37.5	20.3	1.0	70
10.0	41.5	26.0	39.0	37.5		1.0	70
10.0	41.5	27.5	41.0	37.5		1.0	70
10.0	41.5	30.0	45.0	37.5		1.0	70
10.0	41.5	33.0	45.5	37.5		1.0	70
16.0	47.0	30.0	44.0	42.0		1.0	65
10.0	51.0	22.0	37.0	42.0		1.0	65
10.0	51.0	22.0	37.0	46.0		1.0	65
20.0	51.0	31.0	41.0	37.5		1.0	65
20.0	51.0	31.0	41.0	42.5		1.0	65
20.0	47.0	37.0	45.0	42.5		1.0	65
4.7	51.0	22.0	37.0	47.5		1.0	65
12.0	58.0	29.5	43.5	52.5	20.3	1.2	45
12.0	58.0	33.0	43.0	52.5	20.3	1.2	45

350VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
12.0	58.0	35.0	45.0	52.5	20.3	1.2	45
15.0	58.0	30.0	45.0	52.5	20.3	1.2	45
15.0	58.0	35.0	45.0	52.5	20.3	1.2	45
15.0	58.0	35.0	50.0	52.5	20.3	1.2	45
16.0	58.0	35.0	45.0	52.5	20.3	1.2	45
18.0	58.0	35.0	50.0	52.5	20.3	1.2	45
20.0	58.0	33.0	43.0	52.5	20.3	1.2	45
20.0	58.0	35.0	50.0	52.5	20.3	1.2	45
22.0	58.0	40.0	50.0	52.5	20.3	1.2	45
24.0	58.0	35.0	50.0	52.5	20.3	1.2	45
26.0	58.0	35.0	60.0	52.5	20.3	1.2	45
26.0	58.0	45.0	58.0	52.5	20.3	1.2	45
27.0	58.0	45.0	58.0	52.5	20.3	1.2	45
30.0	58.0	45.0	58.0	52.5	20.3	1.2	45
40.0	58.0	43.0	53.0	52.5	20.3	1.2	45
40.0	58.0	52.0	65.0	52.5	20.3	1.2	45

400VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
0.68	31.5	14.0	28.0	27.5		0.8	110
4.7	41.5	30.0	45.0	37.5		1.0	80
5.0	41.5	33.0	45.5	37.5	20.3	1.0	80
8.0	41.5	33.0	45.5	37.5	20.3	1.0	80
8.0	58.0	35.0	50.0	52.5	20.3	1.2	50
16.0	58.0	38.0	54.0	52.5	20.3	1.2	50

440VAC							
CAP (MFD)	L	T	H	P1 (mm)	P2 (mm)	d (mm)	dV/dt (V/μs)
3.0	31.5	18.0	33.0	27.5		0.8	120
2.2	41.5	17.0	31.0	37.5		1.0	85

Ordering Information:

Type	Lead Style	Capacitance	Tolerance	Voltage
BLF	(SL) = Single Lead (2 pins)	1.0	5 = $\pm 5\%$	180
	(DL) = Dual Lead (4 pins)	$\updownarrow$	10 = $\pm 10\%$	$\updownarrow$
		60	20 = $\pm 20\%$	440

Examples:	Order Code
Type BLF, Single Lead, 10uF $\pm 5\%$, 250 VAC	BLF(SL) 10-5-250
Type BLF, Dual Lead, 25uF $\pm 10\%$, 300 VAC	BLF(DL) 25-10-300