

Type BLS

DC Filter Capacitor

The BLS Series Film Capacitor is engineered for high-frequency, high-pulse, and high-AC voltage applications. Featuring a polypropylene film dielectric with double-sided metallized polyester film electrodes, this capacitor ensures exceptional reliability, stability, and efficiency. It is designed for electronic lighting, switching spike suppression in SMPS, snubber circuits, and other high-voltage applications. The self-healing property enhances longevity, while the uniform shape and high-density packaging optimize performance.

Features:

Polypropylene film dielectric film
 Double sided metallized polyester film electrodes
 Suit for high frequency, high pulse, high AC voltage applications
 Uniform shape and high density packaging
 Case impervious to known solvents
 Self-healing property
 Other dimension case is available on request

Applications:

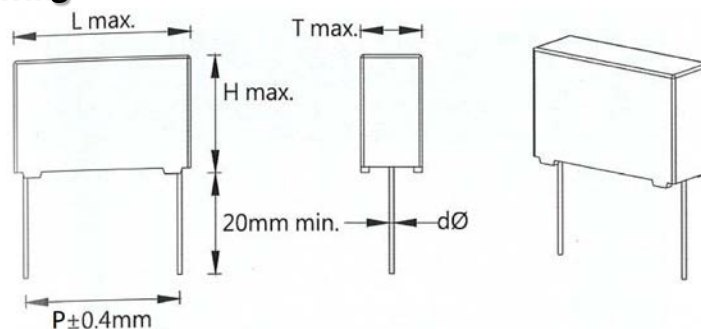
Electronic lighting, e.g. car headlamp and ballast
 Switching spikes suppression in SMPS
 Snubber and SCR commutating circuits
 High frequency and high voltage application

General Specifications

Parameter	Value
Rated Voltage	630VDC (400VAC), 1200VDC (600VAC) 1600VDC (650VAC), 2000VDC (700VAC)
Capacitance	0.0022 μ F to 3.3 μ F (other rating upon request)
Tolerance	$\pm 5\%$, $\pm 10\%$, $\pm 20\%$
Temperature Range (operational)	-40°C to +105°C Derate DC voltage 1.5% /°C above 85°C to 105°C
Dielectric Strength	160% of rated DC voltage for 2 sec
Construction	Non-inductive double metallized polypropylene
Insulation Resistance	$C < 0.33\mu F$, $R \geq 30,000 M\Omega$ at 20 $\pm 3^\circ C$ $C \geq 0.33\mu F$, $RC \geq 10,000 M\Omega \times \mu F$
Dissipation Factor	0.1% max at 1kHz 20 $\pm 3^\circ C$

	VDC \ S	15	22.5	27.5	37.5
Maximum pulse rise time (dv/dt) V/ μ sec	630V	2500	1500	900	450
	1200V	3300	2100	1000	500
	1600V	6000	3000	2000	1200
	2000V	9500	3500	2300	1500

Outline Drawing



630VDC (400VAC)					
CAP (MFD)	L (mm)	T (mm)	H (mm)	P (mm)	d (mm)
0.015	18.0	5.0	11.0	15.0	0.8
0.022	18.0	6.0	12.0	15.0	0.8
0.033	18.0	7.5	13.5	15.0	0.8
0.047	18.0	8.5	14.5	15.0	0.8
0.056	18.0	8.5	14.5	15.0	0.8
0.068	18.0	9.5	15.5	15.0	0.8
0.082	18.0	10.0	16.5	15.0	0.8
0.10	18.0	11.0	19.0	15.0	0.8
0.15	26.5	8.5	17.0	22.5	0.8
0.22	26.5	11.0	20.0	22.5	0.8
0.33	26.5	13.0	23.0	22.5	0.8
0.47	31.5	14.0	25.0	27.5	0.8
0.56	31.5	16.0	25.5	27.5	0.8
0.68	31.5	18.0	28.0	27.5	0.8
0.82	31.5	18.0	28.0	27.5	0.8
1.0	31.5	18.0	33.0	27.5	0.8
1.5	41.5	20.5	34.0	37.5	1.0
2.2	41.5	26.0	39.0	37.5	1.0
3.3	41.5	30.0	45.0	37.5	1.0

1200VDC (600VAC)					
CAP (MFD)	L (mm)	T (mm)	H (mm)	P (mm)	d (mm)
0.0047	18.0	5.0	11.0	15.0	0.8
0.0056	18.0	5.0	11.0	15.0	0.8
0.0068	18.0	6.0	12.0	15.0	0.8
0.0082	18.0	6.0	12.0	15.0	0.8
0.01	18.0	7.5	13.5	15.0	0.8
0.015	18.0	8.5	14.5	15.0	0.8
0.022	18.0	10.0	16.5	15.0	0.8
0.033	26.5	7.0	16.5	22.5	0.8
0.047	26.5	8.5	17.0	22.5	0.8
0.056	26.5	10.0	19.0	22.5	0.8
0.068	26.5	11.0	20.0	22.5	0.8
0.082	26.5	13.0	23.0	22.5	0.8

1200VDC (600VAC)					
CAP (MFD)	L (mm)	T (mm)	H (mm)	P (mm)	d (mm)
0.10	26.5	14.0	23.0	22.5	0.8
0.15	31.5	14.0	25.0	27.5	0.8
0.22	31.5	18.0	28.0	27.5	0.8
0.33	41.5	18.0	31.5	37.5	1.0
0.47	41.5	20.5	34.0	37.5	1.0
0.56	41.5	22.0	37.0	37.5	1.0
0.68	41.5	26.0	39.0	37.5	1.0
0.82	41.5	28.0	43.0	37.5	1.0
1.0	41.5	30.0	45.0	37.5	1.0

1600VDC (650VAC)					
CAP (MFD)	L (mm)	T (mm)	H (mm)	P (mm)	d (mm)
0.0033	18.0	5.0	11.0	15.0	0.8
0.0047	18.0	6.0	12.0	15.0	0.8
0.0056	18.0	6.0	12.0	15.0	0.8
0.0068	18.0	7.5	13.5	15.0	0.8
0.0082	18.0	7.5	13.5	15.0	0.8
0.010	18.0	8.5	14.5	15.0	0.8
0.015	18.0	10.0	16.5	15.0	0.8
0.022	18.0	11.0	19.0	15.0	0.8
0.033	26.5	8.5	17.0	22.5	0.8
0.047	26.5	11.0	20.0	22.5	0.8
0.056	26.5	13.0	23.0	22.5	0.8
0.068	26.5	13.0	23.0	22.5	0.8
0.082	26.5	14.0	23.0	22.5	0.8
0.10	31.5	14.0	25.0	27.5	0.8
0.15	31.5	18.0	28.0	27.5	0.8
0.22	41.5	18.0	31.5	37.5	1.0
0.33	41.5	20.5	34.0	37.5	1.0
0.47	41.5	26.0	39.0	37.5	1.0
0.56	41.5	26.0	39.0	37.5	1.0
0.68	41.5	28.0	43.0	37.5	1.0

2000VDC (700VAC)					
CAP (MFD)	L (mm)	T (mm)	H (mm)	P (mm)	d (mm)
0.0022	18.0	5.0	11.0	15.0	0.8
0.0033	18.0	6.0	12.0	15.0	0.8
0.0047	18.0	7.5	13.5	15.0	0.8
0.0056	18.0	7.5	13.5	15.0	0.8
0.0068	18.0	8.5	14.5	15.0	0.8
0.0082	18.0	9.5	15.5	15.0	0.8
0.010	18.0	10.0	16.5	15.0	0.8
0.015	26.5	7.0	16.5	22.5	0.8
0.022	26.5	10.0	19.0	22.5	0.8
0.033	26.5	11.0	20.0	22.5	0.8
0.047	26.5	13.0	23.0	22.5	0.8
0.056	31.5	13.0	22.0	27.5	0.8
0.068	31.5	14.0	25.0	27.5	0.8
0.082	31.5	16.0	25.5	27.5	0.8
0.10	31.5	18.0	28.0	27.5	0.8
0.15	41.5	18.0	31.5	37.5	1.0
0.22	41.5	20.5	34.0	37.5	1.0
0.33	41.5	26.0	39.0	37.5	1.0
0.47	41.5	30.0	45.0	37.5	1.0

Order Code Information:

Type	Capacitance	Tolerance	Voltage
BLS	0.0022 ↓ 3.3	5 = ±5% 10 = ±10% 20 = ±20%	630 ↓ 2000

Examples:	Order Code
Type BLS, 0.15uF ±10%, 2000 VDC	BLS 0.15-10-2000
Type BLS, 0.068uF ±5%, 630 VDC	BLS 0.068-5-630