

Metallized Polypropylene Safety Film Capacitors(Box-Type)

■ Structure

- Dielectric: Metallized Polypropylene film.
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulate: Plastic case (UL94 V-0), Flame retardant epoxy resin sealing.

■ Typical Application

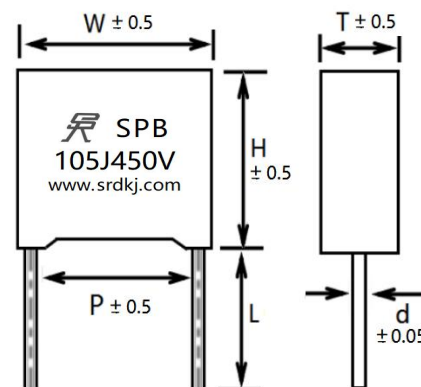
- For intermediate circuits such as switching power supplies, electronic rectifiers and frequency converters.
E.g. DC Filter, DC-Link, PFC, etc.

■ Characteristics

- Small size, good self-healing performance.
High impact strength, good withstand voltage performance.

■ Conform to RoHS standards

■ Technical Parameter



Reference Standards	GB/T10190 (IEC 60384-16)	
Climatic Category	40/105/56	
Rated Temperature	85°C	
Operating Temperature Range	-40°C~105°C (+85°C to +105°C: Decreasing Factor 1.25% per °C for U _R)	
Rated Voltage	450Vdc、630Vdc	
Capacitance Range	0.22μF ~ 6.8μF	
Capacitance Tolerance	J (±5%)、K (±10%)	
Voltage Proof	1.6U _R (5s)	
Dissipation Factor	≤0.0015 (1kHz)	20°C, 1V
Insulation Resistance	C _R ≤0.33μF, R ≥25000 MΩ C _R >0.33μF, RC ≥7500S	U _R ≤500V, test voltage:100V U _R >500V, test voltage:500V (20°C, 1min)
Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.		

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Part Number System

The 15 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
S P B 1 0 5 J 2 W D G R 8 0 0

Digit 1 to 3	Series Code: SPB=CBB21B (Safety Film)
Digit 4 to 6	Rated Capacitance Value: 105=10x10 ⁵ pF=1.0μF
Digit 7	Capacitance Tolerance: J=±5%; K=±10%
Digit 8 to 9	D.C. Rated Voltage: 2W=450V; 2J=630V
Digit 10 to 11	Dimensions Code: See The Dimension Comparison Table
Digit 12	Color Code: R - Gray; X - Yellow
Digit 13	Lead-wire Diameter Code: 6=0.6; 8=0.8
Digit 14 to 15	Internal Recognition Code

Dimensions (mm) (Rated Voltage: 450V)

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.22	SPB224J2WCBR600	12.5	4.2	11	10	0.6	1.5	SPB155J2WE2R800	26.5	7	16.5	22.5	0.8
0.27	SPB274J2WCDR600	12.5	5.2	13	10	0.6	1.8	SPB185J2WDKR800	17.5	8.2	18.5	15	0.8
0.33	SPB334J2WCDR600	12.5	5.2	13	10	0.6	1.8	SPB185J2WE2R800	26.5	7	16.5	22.5	0.8
0.39	SPB394J2WCDR600	12.5	5.2	13	10	0.6	2.2	SPB225J2WDNR800	17.5	9.2	19.5	15	0.8
0.47	SPB474J2WCDR600	12.5	5.2	13	10	0.6	2.2	SPB225J2WE3R800	26.5	8.5	17	22.5	0.8
0.56	SPB564J2WCGR600	12.5	6.2	15.5	10	0.6	2.7	SPB275J2WDRR800	17.5	10.2	22.5	15	0.8
0.68	SPB684J2WCGR600	12.5	6.2	15.5	10	0.6	2.7	SPB275J2WE3R800	26.5	8.5	17	22.5	0.8
0.68	SPB684J2WDBR600	17.5	5.2	13.0	15	0.6	3.3	SPB335J2WDUR800	17.5	11.2	23.5	15	0.8
0.82	SPB824J2WCKR600	12.5	7.2	17.5	10	0.6	3.3	SPB335J2WE4R800	26.5	10	19	22.5	0.8
0.82	SPB824J2WDDR800	17.5	6.2	15.5	15	0.8	3.9	SPB395J2WDXR800	17.5	12.2	24.5	15	0.8
1.0	SPB105J2WCKR600	12.5	7.2	17.5	10	0.6	3.9	SPB395J2WE4R800	26.5	10	19	22.5	0.8
1.0	SPB105J2WDDR800	17.5	6.2	15.5	15	0.8	4.7	SPB475J2WE5R800	26.5	11	20	22.5	0.8
1.2	SPB125J2WDGR800	17.5	7.2	17.5	15	0.8	5.6	SPB565J2WE6R800	26.0	12	21.5	22.5	0.8
1.5	SPB155J2WDGR800	17.5	7.2	17.5	15	0.8	6.8	SPB685J2WE7R800	26.5	13	23	22.5	0.8

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■ Dimensions (mm) (Rated Voltage: 630V)

μF	Part Number	W	T	H	P	d
0.22	SPB224J2JCDR600	12.5	5.2	13.0	10	0.6
0.27	SPB274J2JCDR600	12.5	5.2	13.0	10	0.6
0.33	SPB334J2JCGR600	12.5	6.2	15.5	10	0.6
0.33	SPB334J2JDDBR600	17.5	5.2	13.0	15	0.6
0.39	SPB394J2JCGR600	12.5	6.2	15.5	10	0.6
0.39	SPB394J2JDDBR600	17.5	5.2	13.0	15	0.6
0.47	SPB474J2JCKR600	12.5	7.2	17.5	10	0.6
0.47	SPB474J2JDDBR600	17.5	5.2	13.0	15	0.6
0.56	SPB564J2JCKR600	12.5	7.2	17.5	10	0.6
0.56	SPB564J2JDDR800	17.5	6.2	15.5	15	0.8
0.68	SPB684J2JCNR600	12.5	8.2	18.5	10	0.6
0.68	SPB684J2JDDR800	17.5	6.2	15.5	15	0.8
0.82	SPB824J2JCRR600	12.5	9.2	19.5	10	0.6
0.82	SPB824J2JDGR800	17.5	7.2	17.5	15	0.8
1.0	SPB105J2JDGR800	17.5	7.2	17.5	15	0.8

μF	Part Number	W	T	H	P	d
1.0	SPB105J2JE2R800	26.5	7	16.5	22.5	0.8
1.2	SPB125J2JDKR800	17.5	8.2	18.5	15	0.8
1.2	SPB125J2JE2R800	26.5	7	16.5	22.5	0.8
1.5	SPB155J2JDNR800	17.5	9.2	19.5	15	0.8
1.5	SPB155J2JE3R800	26.5	8.5	17	22.5	0.8
1.8	SPB185J2JDRR800	17.5	10.2	22.5	15	0.8
1.8	SPB185J2JE3R800	26.5	8.5	17	22.5	0.8
2.0	SPB205J2JDRR800	17.5	10.2	22.5	15	0.8
2.2	SPB225J2JDUR800	17.5	11.2	23.5	15	0.8
2.2	SPB225J2JE4R800	26.5	10	19	22.5	0.8
2.5	SPB255J2JDXR800	17.5	12.2	24.5	15	0.8
2.7	SPB275J2JDXR800	17.5	12.2	24.5	15.0	0.8
2.7	SPB275J2JE5R800	26.5	11	20	22.5	0.8
3.3	SPB335J2JE6R800	26.0	12	21.5	22.5	0.8
3.9	SPB395J2JE7R800	26.5	13	23	22.5	0.8