

Metallized Polypropylene Film Capacitors

■ Structure

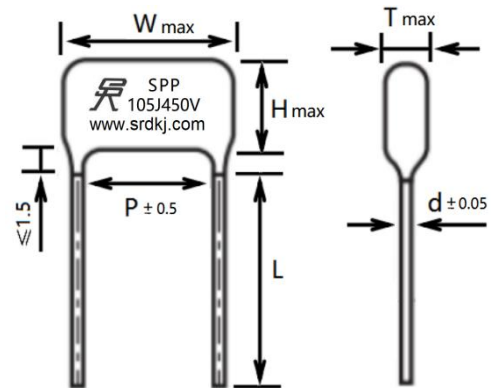
- Dielectric: Metallized Polypropylene film.
- Electrode: Special process metal vacuum evaporation layer.
- Encapsulate: Flame retardant epoxy resin coating, conforming to UL94 V-0.

■ 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	40/105/21	
Rated Temperature	85℃	
Operating Temperature Range	-40℃~105℃ (+85℃ to +105℃: Decreasing Factor 1.25% per °C for U_R)	
Rated Voltage	450Vdc、630Vdc	
Capacitance Range	0.15μF ~ 3.3μF	
Capacitance Tolerance	J (±5%)、K (±10%)	
Voltage Proof	1.6 U_R (5s)	
Dissipation Factor	≤ 0.0015 (1kHz)	20℃, 1V
Insulation Resistance	$C_R \leq 0.33\mu F, R \geq 25000 M\Omega$ $C_R > 0.33\mu F, RC \geq 7500S$	$U_R \leq 500V$, test voltage:100V $U_R > 500V$, test voltage:500V (20℃, 1min)
Note: Products capacitance can be customized. Details specific parameters are according to Approval Sheet.		

Part Number System

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
S	P	P	1	0	5	J	2	W	1	3	0	8	1	6	6	0	0

Digit 1 to 3	Series Code: SPP=CBB21 (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 15	Dimensions Code: See The Dimension Comparison Table
Digit 16	Lead-wire Diameter Code: 5=0.5、6=0.6、8=0.8
Digit 17 to 18	Internal Recognition Code

Dimensions (mm) (Rated Voltage: 450V)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.27	SPP274J2W130509500	13	5.4	9.7	10	0.5	1.0	SPP105J2W130815600	13	9.2	16.1	10	0.6
0.33	SPP334J2W130510500	13	5.6	10.7	10	0.5	1.0	SPP105J2W190712800	19	7.5	12.6	15	0.8
0.39	SPP394J2W130510500	13	6.1	11.2	10	0.5	1.2	SPP125J2W190712800	19	8.2	13.3	15	0.8
0.47	SPP474J2W130611600	13	6.6	11.7	10	0.6	1.5	SPP155J2W190815800	19	8.5	15.4	15	0.8
0.56	SPP564J2W130712600	13	7.4	12.5	10	0.6	1.8	SPP185J2W190815800	19	9.3	16.2	15	0.8
0.68	SPP684J2W130713600	13	7.5	14.2	10	0.6	2.0	SPP205J2W190916800	19	9.9	16.7	15	0.8
0.68	SPP684J2W190510600	19	6.1	11.2	15	0.6	2.2	SPP225J2W190917800	19	9.7	18.2	15	0.8
0.82	SPP824J2W130714600	13	8.3	15.2	10	0.6	2.7	SPP275J2W191018800	19	10.9	19.3	15	0.8
0.82	SPP824J2W190611600	19	6.6	11.7	15	0.6	3.3	SPP335J2W191121800	19	11.5	21.5	15	0.8

Dimensions (mm) (Rated Voltage: 630V)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.15	SPP154J2J130409500	13	5.1	9.4	10	0.5	0.56	SPP564J2J190611600	19	6.9	12.0	15	0.6
0.18	SPP184J2J130509500	13	5.5	9.9	10	0.5	0.68	SPP684J2J130916600	13	9.6	16.5	10	0.6
0.22	SPP224J2J130510500	13	5.8	10.9	10	0.5	0.68	SPP684J2J190712800	19	7.8	12.9	15	0.8
0.27	SPP274J2J130611600	13	6.4	11.5	10	0.6	0.82	SPP824J2J190714800	19	7.9	14.6	15	0.8
0.33	SPP334J2J130611600	13	7.2	12.3	10	0.6	1.0	SPP105J2J190815800	19	8.8	15.7	15	0.8
0.39	SPP394J2J130712600	13	7.8	12.9	10	0.6	1.2	SPP125J2J190916800	19	9.7	16.5	15	0.8
0.39	SPP394J2J190510600	19	5.8	10.9	15	0.6	1.5	SPP155J2J190918800	19	10.2	18.7	15	0.8
0.47	SPP474J2J130714600	13	7.9	14.6	10	0.6	1.8	SPP185J2J191019800	19	11.3	19.7	15	0.8
0.47	SPP474J2J190611600	19	6.4	11.5	15	0.6	2.0	SPP205J2J191120800	19	11.9	20.4	15	0.8
0.56	SPP564J2J130815600	13	8.7	15.6	10	0.6	2.2	SPP225J2J191121800	19	11.9	22.0	15	0.8