

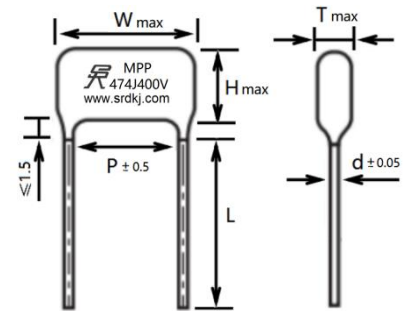
Metallized Polypropylene Film Capacitors

■ 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

- High frequency, DC, AC, Pulse high current occasions.
E.g.: Lamps, Power Suppl, etc.



■ Characteristics

- Small size, good self-healing performance. Low dissipation at high frequency, low temperature rise, high impact strength. Good withstand voltage performance at high frequency in AC occasion.

■ 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	400Vdc、450Vdc、630Vdc	
Capacitance Range	0.01μF ~ 4.7μF	
Capacitance Tolerance	J (±5%)、K (±10%)	
Voltage Proof	1.6 U_R (5s)	
Dissipation Factor	≤0.0010 (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.		

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■ 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
M	P	P	4	7	4	J	2	G	1	3	0	6	1	3	6	0	0

Digit 1 to 3	Series Code: MPP=CBB21
Digit 4 to 6	Rated Capacitance Value: 474=47x10 ⁴ pF=0.47μF
Digit 7	Capacitance Tolerance: J=±5%、K=±10%
Digit 8 to 9	D.C. Rated Voltage: 2G=400V; 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、1=1.0
Digit 17 to 18	Internal Recognition Code

■ Dimensions (mm) (Rated Voltage: 400V)

μ F	Part Number	W	T	H	P	d	μ F	Part Number	W	T	H	P	d
0.1	MPP104J2G100407500	10	4.9	8.2	7.5	0.5	0.68	MPP684J2G190714800	18	7	13.5	15	0.8
0.1	MPP104J2G130510500	13	5.2	10.5	10	0.5	0.82	MPP824J2G190712800	19	7.6	12.7	15	0.8
0.12	MPP124J2G100408500	10	5.2	8.8	7.5	0.5	1.0	MPP105J2G190714800	19	7.7	14.4	15	0.8
0.12	MPP124J2G130407500	13	4.5	7.8	10	0.5	1.0	MPP105J2G240611600	24	6.8	11.9	20	0.6
0.15	MPP154J2G100508500	10	5.8	9.3	7.5	0.5	1.2	MPP125J2G190814800	19	8.5	15.3	15	0.8
0.15	MPP154J2G130407500	13	4.9	8.2	10	0.5	1.2	MPP125J2G240712800	24	7.6	12.7	20	0.8
0.18	MPP184J2G100510500	10	5.6	10.8	7.5	0.5	1.5	MPP155J2G240714800	24	7.9	14.5	20	0.8
0.18	MPP184J2G130408500	13	5.3	8.8	10	0.5	1.8	MPP185J2G240815800	24	8.6	15.5	20	0.8
0.22	MPP224J2G100510500	10	6.2	11.3	7.5	0.5	1.8	MPP185J2G290713800	29	7.5	14.2	25	0.8
0.22	MPP224J2G130508500	13	5.8	9.3	10	0.5	2.2	MPP225J2G240817800	24	9	17.4	20	0.8
0.27	MPP274J2G130510500	13	5.7	10.8	10	0.5	2.2	MPP225J2G290714800	29	8.3	15.2	25	0.8
0.33	MPP334J2G130511500	13	6.3	11.4	10	0.5	2.7	MPP275J2G290815800	29	9.3	16.2	25	0.8
0.39	MPP394J2G130611600	13	6.8	11.9	10	0.6	3.3	MPP335J2G290917800	29	9.7	18.1	25	0.8
0.47	MPP474J2G130613600	13	6.9	13.6	10	0.6	3.3	MPP335J2G350816800	35	8.4	16.9	31	0.8
0.47	MPP474J2G190611600	18	6.5	11	15	0.6	3.9	MPP395J2G350817800	35	9.2	17.7	31	0.8
0.56	MPP564J2G190510600	19	6.1	11.2	15	0.6	4.7	MPP475J2G350918800	35	10.2	18.7	31	0.8

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

μF	Part Number	W	T	H	P	d	μF	Part Number	W	T	H	P	d
0.01	MPP103J2J100407500	10	4.5	7.9	7.5	0.5	0.15	MPP154J2J130510500	13	5.8	10.9	10	0.5
0.01	MPP103J2J130508500	13	5.5	8.5	10	0.5	0.18	MPP184J2J130611600	13	6.4	11.5	10	0.6
0.012	MPP123J2J100407500	10	4.9	8.2	7.5	0.5	0.22	MPP224J2J130612600	13	6.4	13.1	10	0.6
0.012	MPP123J2J130409500	13	5.1	10.2	10	0.5	0.22	MPP224J2J190611600	19	5.3	10.4	15	0.6
0.015	MPP153J2J100407500	10	4.5	7.8	7.5	0.5	0.27	MPP274J2J130613600	13	7.3	14	10	0.6
0.015	MPP153J2J130510500	13	6	11	10	0.5	0.27	MPP274J2J190510600	19	5.8	10.9	15	0.6
0.018	MPP183J2J100407500	10	4.8	8.1	7.5	0.5	0.33	MPP334J2J130714600	13	8.1	14.8	10	0.6
0.018	MPP183J2J130510500	13	6	11	10	0.5	0.33	MPP334J2J190512600	19	5.9	12.6	15	0.6
0.022	MPP223J2J100407500	10	4.5	7.8	7.5	0.5	0.39	MPP394J2J190612600	19	6.4	13.1	15	0.6
0.022	MPP223J2J130407500	13	4.5	7.8	10	0.5	0.47	MPP474J2J190613600	19	7.2	13.9	15	0.6
0.027	MPP273J2J100407500	10	4.9	8.2	7.5	0.5	0.47	MPP474J2J240815800	24	8	14.5	20	0.8
0.027	MPP273J2J130407500	13	4.8	8.2	10	0.5	0.56	MPP564J2J190714800	19	7.9	14.6	15	0.8
0.033	MPP333J2J100407500	10	4.7	8	7.5	0.5	0.56	MPP564J2J240611800	24	7	12.1	20	0.6
0.033	MPP333J2J130407500	13	4.5	7.9	10	0.5	0.56	MPP564J2J240815800	24	8.5	15.5	20	0.8
0.039	MPP393J2J100407500	10	5	8.3	7.5	0.5	0.68	MPP684J2J190716800	19	8.2	16.4	15	0.8
0.039	MPP393J2J130407500	13	4.9	8.2	10	0.5	0.68	MPP684J2J240613800	24	7.3	13.9	20	0.6
0.047	MPP473J2J100407500	10	4.6	8	7.5	0.5	0.82	MPP824J2J240714800	24	8	14.7	20	0.8
0.047	MPP473J2J130407500	13	4.6	7.9	10	0.5	1.0	MPP105J2J240716800	24	8.2	16.7	20	0.8
0.056	MPP563J2J100407500	10	5	8.3	7.5	0.5	1.2	MPP125J2J240817800	24	9.1	17.5	20	0.8
0.056	MPP563J2J130407500	13	5	8.3	10	0.5	1.2	MPP125J2J290814800	29	8.4	15.3	25	0.8
0.068	MPP683J2J100508500	10	5.4	8.9	7.5	0.5	1.5	MPP155J2J240918800	24	10.3	18.7	20	0.8
0.068	MPP683J2J130407500	13	4.6	7.9	10	0.5	1.5	MPP155J2J290816800	29	8.9	17.3	25	0.8
0.082	MPP823J2J100410500	10	5.3	10.4	7.5	0.5	1.8	MPP185J2J290917800	29	9.8	18.2	25	0.8
0.082	MPP823J2J130407500	13	5	8.3	10	0.5	1.8	MPP185J2J350816800	35	8.6	17	31	0.8
0.1	MPP104J2J100510500	10	5.8	10.9	7.5	0.5	2.2	MPP225J2J2910191A0	29	10.9	19.4	25	1.0
0.1	MPP104J2J130409500	13	4.8	9.7	10	0.5	2.2	MPP225J2J3509171A0	35	9.5	18	31	1.0
0.1	MPP104J2J190613600	18	6.5	13	15	0.6	2.7	MPP275J2J3509191A0	35	10.1	20.1	31	1.0
0.12	MPP124J2J130410500	13	5.3	10.4	10	0.5	3.3	MPP335J2J3510201A0	35	11.3	21.3	31	1.0