

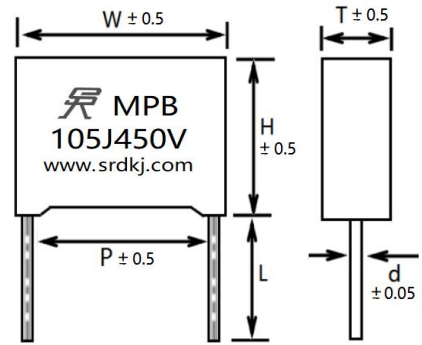
## Metallized Polypropylene Film Capacitors(Box-Type)

### ■ 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

- High frequency, DC, AC, Pulse high current occasions.  
E.g.: All CBB21 capacitor suitable occasions, such as Lamps, Power Supplies, 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	40/105/56	
Rated Temperature	85℃	
Operating Temperature Range	-40℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per ℃ for $U_R$ )	
Rated Voltage	450Vdc、630Vdc	
Capacitance Range	0.001μF ~ 12.0μF	
Capacitance Tolerance	J (±5%)、K (±10%)	
Voltage Proof	1.6 $U_R$ (5s)	
Dissipation Factor	$\leq 0.0010$ (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 15 digits part number is formed as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

M P B 1 0 5 J 2 W D G R 8 0 0

Digit 1 to 3	Series Code: MPB = CBB21B
Digit 4 to 6	Rated Capacitance Value: 105=10x10 <sup>5</sup> 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、1=1.0
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
0.1	MPB104J2WC2R600	13	5	11	10	0.6	1.5	MPB155J2WDKR800	17.5	8.2	18.5	15	0.8
0.15	MPB154J2WC2R600	13	5	11	10	0.6	1.5	MPB155J2WE2R800	26.5	7	16.5	22.5	0.8
0.18	MPB184J2WC2R600	13	5	11	10	0.6	1.8	MPB185J2WDNR800	17.5	9.2	19.5	15	0.8
0.22	MPB224J2WC2R600	13	5	11	10	0.6	1.8	MPB185J2WE3R800	26.5	8.5	17	22.5	0.8
0.27	MPB274J2WCDR600	12.5	5.2	13	10	0.6	2.2	MPB225J2WDRR800	17.5	10.2	22.5	15	0.8
0.33	MPB334J2WCDR600	12.5	5.2	13	10	0.6	2.2	MPB225J2WE3R800	26.5	8.5	17	22.5	0.8
0.39	MPB394J2WCGR600	12.5	6.2	15.5	10	0.6	2.7	MPB275J2WDUR800	17.5	11.2	23.5	15	0.8
0.47	MPB474J2WCGR600	12.5	6.2	15.5	10	0.6	2.7	MPB275J2WE4R800	26.5	10	19	22.5	0.8
0.47	MPB474J2WDBR600	17.5	5.2	13	15	0.6	3.3	MPB335J2WDXR800	17.5	12.2	24.5	15	0.8
0.56	MPB564J2WCKR600	12.5	7.2	17.5	10	0.6	3.3	MPB335J2WE5R800	26.5	11	20	22.5	0.8
0.56	MPB564J2WDBR600	17.5	5.2	13	15	0.6	3.3	MPB335J2WF1R800	31.5	10.8	19.5	27.5	0.8
0.68	MPB684J2WCKR600	12.5	7.2	17.5	10	0.6	3.9	MPB395J2WE6R800	26	12	21.5	22.5	0.8
0.68	MPB684J2WDDR800	17.5	6.2	15.5	15	0.8	3.9	MPB395J2WF1R800	31.5	10.8	19.5	27.5	0.8
0.82	MPB824J2WCNR600	12.5	8.2	18.5	10	0.6	4.7	MPB475J2WE7R800	26.5	13	23	22.5	0.8
0.82	MPB824J2WDDR800	17.5	6.2	15.5	15	0.8	4.7	MPB475J2WF2R800	31.5	13	21.5	27.5	0.8
1.0	MPB105J2WCRR600	12.5	9.2	19.5	10	0.6	5.6	MPB565J2WF2R800	31.5	13	21.5	27.5	0.8
1.0	MPB105J2WDGR800	17.5	7.2	17.5	15	0.8	6.8	MPB685J2WF3R800	31	14	25	27.5	0.8
1.0	MPB105J2WE2R800	26.5	7	16.5	22.5	0.8	8.2	MPB825J2WF4R800	31.5	16	25.5	27.5	0.8
1.2	MPB125J2WDGR800	17.5	7.2	17.5	15	0.8	10.0	MPB106J2WF5R800	31.5	16	30	27.5	0.8
1.2	MPB125J2WE2R800	26.5	7	16.5	22.5	0.8	12.0	MPB126J2WF6R800	31.5	18	33	27.5	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
0.001	MPB102J2JC2R600	13	5	11	10	0.6	0.22	MPB224J2JDBR600	17.5	5.2	13	15	0.6
0.0012	MPB122J2JC2R600	13	5	11	10	0.6	0.27	MPB274J2JCGR600	12.5	6.2	15.5	10	0.6
0.0015	MPB152J2JC2R600	13	5	11	10	0.6	0.27	MPB274J2JD2R800	18	6	12	15	0.8
0.0018	MPB182J2JC2R600	13	5	11	10	0.6	0.27	MPB274J2JDBR600	17.5	5.2	13	15	0.6
0.0022	MPB222J2JC2R600	13	5	11	10	0.6	0.33	MPB334J2JCKR600	12.5	7.2	17.5	10	0.6
0.0027	MPB272J2JC2R600	13	5	11	10	0.6	0.33	MPB334J2JDDR800	17.5	6.2	15.5	15	0.8
0.0033	MPB332J2JC2R600	13	5	11	10	0.6	0.39	MPB394J2JCNR600	12.5	8.2	18.5	10	0.6
0.0039	MPB392J2JC2R600	13	5	11	10	0.6	0.39	MPB394J2JDDR800	17.5	6.2	15.5	15	0.8
0.0047	MPB472J2JC2R600	13	5	11	10	0.6	0.47	MPB474J2JCRR600	12.5	9.2	19.5	10	0.6
0.0056	MPB562J2JC2R600	13	5	11	10	0.6	0.47	MPB474J2JDDR800	17.5	6.2	15.5	15	0.8
0.0068	MPB682J2JC2R600	13	5	11	10	0.6	0.47	MPB474J2JE2R800	26.5	7	16.5	22.5	0.8
0.0082	MPB822J2JC2R600	13	5	11	10	0.6	0.56	MPB564J2JDGR800	17.5	7.2	17.5	15	0.8
0.01	MPB103J2JC2R600	13	5	11	10	0.6	0.56	MPB564J2JE2R800	26.5	7	16.5	22.5	0.8
0.012	MPB123J2JC2R600	13	5	11	10	0.6	0.68	MPB684J2JDGR800	17.5	7.2	17.5	15	0.8
0.015	MPB153J2JC2R600	13	5	11	10	0.6	0.68	MPB684J2JE2R800	26.5	7	16.5	22.5	0.8
0.018	MPB183J2JC2R600	13	5	11	10	0.6	0.82	MPB824J2JDKR800	17.5	8.2	18.5	15	0.8
0.022	MPB223J2JC2R600	13	5	11	10	0.6	0.82	MPB824J2JE3R800	26.5	8.5	17	22.5	0.8
0.027	MPB273J2JC2R600	13	5	11	10	0.6	1.0	MPB105J2JDNR800	17.5	9.2	19.5	15	0.8
0.033	MPB333J2JC2R600	13	5	11	10	0.6	1.0	MPB105J2JE3R800	26.5	8.5	17	22.5	0.8
0.039	MPB393J2JC2R600	13	5	11	10	0.6	1.0	MPB105J2JF1R800	31.5	10.8	19.5	27.5	0.8
0.047	MPB473J2JC2R600	13	5	11	10	0.6	1.2	MPB125J2JDRR800	17.5	10.2	22.5	15	0.8
0.056	MPB563J2JC2R600	13	5	11	10	0.6	1.2	MPB125J2JE4R800	26.5	10	19	22.5	0.8
0.068	MPB683J2JC2R600	13	5	11	10	0.6	1.2	MPB125J2JF1R800	31.5	10.8	19.5	27.5	0.8
0.082	MPB823J2JC2R600	13	5	11	10	0.6	1.5	MPB155J2JDUR800	17.5	11.2	23.5	15	0.8
0.1	MPB104J2JC2R600	13	5	11	10	0.6	1.5	MPB155J2JE4R800	26.5	10	19	22.5	0.8
0.1	MPB104J2JD2R800	18	6	12	15	0.8	1.5	MPB155J2JF1R800	31.5	10.8	19.5	27.5	0.8
0.1	MPB104J2JDBR600	17.5	5.2	13	15	0.6	1.8	MPB185J2JDXR800	17.5	12.2	24.5	15	0.8
0.12	MPB124J2JC2R600	13	5	11	10	0.6	1.8	MPB185J2JE5R800	26.5	11	20	22.5	0.8
0.12	MPB124J2JD2R800	18	6	12	15	0.8	1.8	MPB185J2JF1R800	31.5	10.8	19.5	27.5	0.8
0.12	MPB124J2JDBR600	17.5	5.2	13	15	0.6	2.2	MPB225J2JE6R800	26	12	21.5	22.5	0.8
0.15	MPB154J2JCGR600	12.5	5.2	13	10	0.6	2.2	MPB225J2JF2R1A0	31.5	13	21.5	27.5	1.0
0.15	MPB154J2JD2R800	18	6	12	15	0.8	2.7	MPB275J2JE7R800	26.5	13	23	22.5	0.8
0.15	MPB154J2JDBR600	17.5	5.2	13	15	0.6	2.7	MPB275J2JF2R1A0	31.5	13	21.5	27.5	1.0
0.18	MPB184J2JCGR600	12.5	5.2	13	10	0.6	3.3	MPB335J2JF3R1A0	31	14	25	27.5	1.0
0.18	MPB184J2JD2R800	18	6	12	15	0.8	3.9	MPB395J2JF3R1A0	31	14	25	27.5	1.0
0.18	MPB184J2JDBR600	17.5	5.2	13	15	0.6	4.7	MPB475J2JF4R1A0	31.5	16	25.5	27.5	1.0
0.22	MPB224J2JCGR600	12.5	6.2	15.5	10	0.6	5.6	MPB565J2JF5R1A0	31.5	16	30	27.5	1.0
0.22	MPB224J2JD2R800	18	6	12	15	0.8	6.8	MPB685J2JF6R1A0	31.5	18	33	27.5	1.0