

**Metallized Polypropylene Film Capacitors**

**Reference Standard**

IEC384-16  
GB10190

**Structures**

Material: Polypropylene film  
Electrode: Metallized Vacuum Evaporated Layer  
Enveloped with Fire-proof Epoxy Resin

**Using area**

High Frequency, DC, AC and Impulsion High Current conditions. E.g. Lamps , Lanterns, power etc

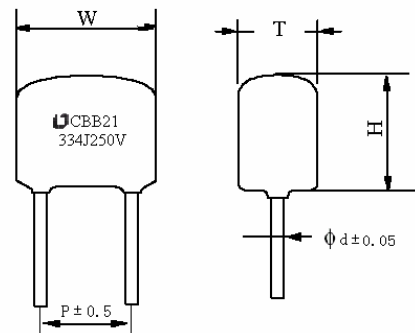
**Features:**

Small Size with good self-healing effect .Very low loss at high frequency, the low temperature in changing with high impact.Have well voltageproof features under the high frequency AC current.

**Specifications**

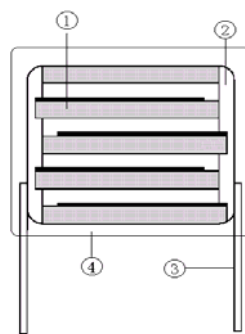
Climate Conditions	-40--+85°C/110°C					
Rated Voltage	100V、250V、400V、630V、1000V					
Capacitance Range	0.0010μF-8.2μF					
Cap.Tolerance	±5% ±10%					
DC Testing Voltage	1.6U (5S)					
IR and Time Consistence	≤0.33μF		≥25000MΩ			
	>0.33μF		≥7500S			
Dissipation Factor	<1.0μF		≤0.0015 10kHz			
	≥1.0μF		≤0.0010 1kHz			
Climate Category	Temperature: 40±2°C Humidity: 93%RH Lasting Time: 21 Days There is no visible damage with the clearly mark. Capacitance: ΔC/C≤5% Dissipation Factor (1KHz): Increasing≤0.002 IR Insulation Resistance: ≥50% of Rated					
Endurance Test	+85°C/110°C, 1000h Applying Voltage:1.25*Rate Voltage Capacitance: ΔC/C≤10% IR: ≥50% Insulation Resistance: ≥50% of Rated					
dv/dt (v/μs)	Pitch	10	15	20	25/27.5	31
	dv/dt	400	200	150	100	100

**Out drawings**



Pitch mm	10	15	20	25/27.5	31
The Diameters of Pins mm	0.6	0.6/0.8	0.8	0.8	0.8

**Structures**



**Explanations:**

- ① Metallized Polypropylene Film
- ② Metal Spray Layer
- ③ CP Leads
- ④ Red Epoxy Resin
- ⑤ ROHS Compliant

# CBB21 (MPP) Metallized Polypropylene Film Capacitors

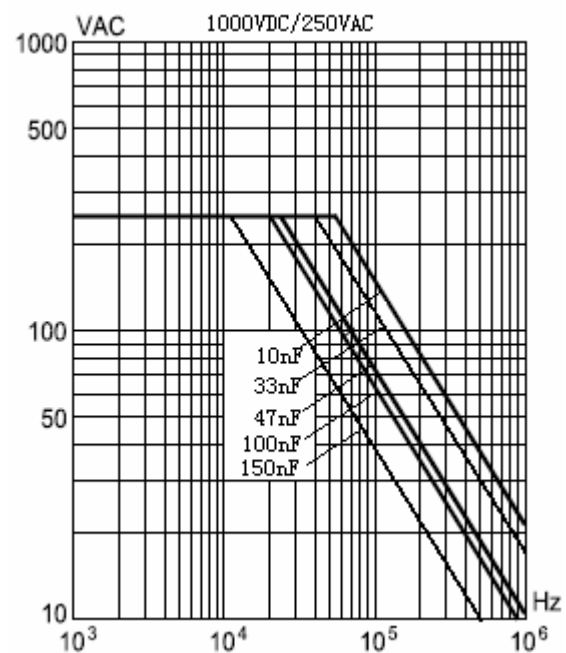
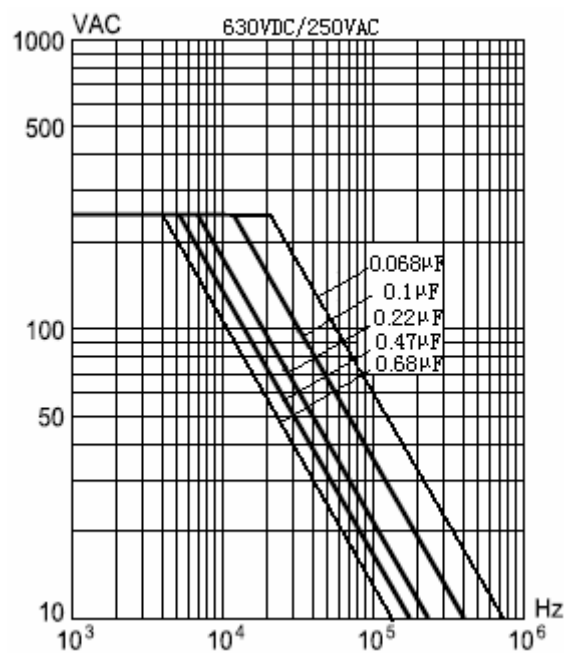
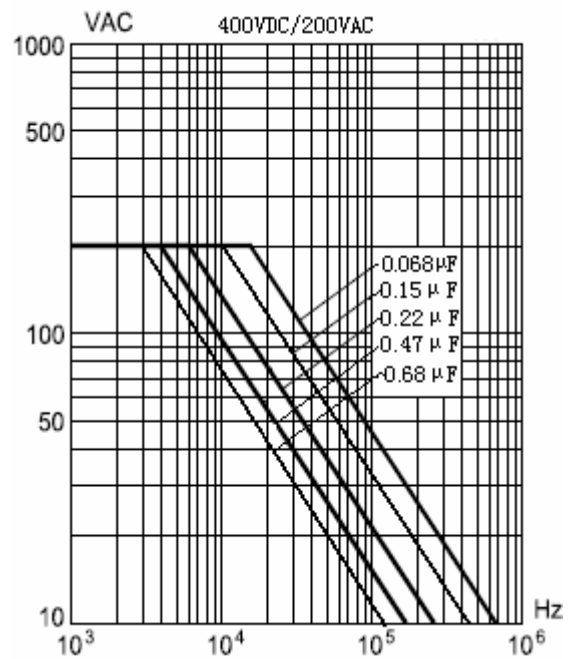
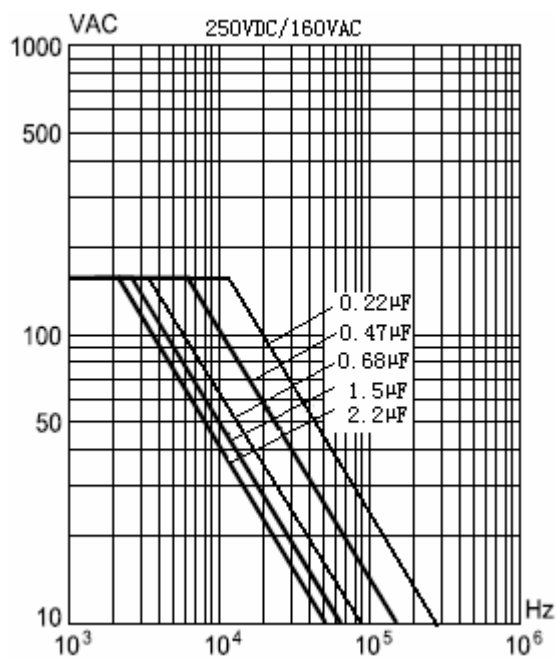
RoHS COMPLIANT



## ■The exchanging of AC and DC

Direct Current	100VDC	250VDC	400VDC	630VDC	1000VDC
Alternate Current	63VAC	160VAC	200VAC	250VAC	250VAC

## ■The Relationship of AC Voltage Proof and Frequency





**CBB21 (MPP) Dimension Lists**

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
<b>250VDC</b>					
102	MPP102K(J)213030700	13	3.5	7	10
122	MPP122K(J)213030700	13	3.5	7	10
152	MPP152K(J)213040700	13	4	8	10
182	MPP182K(J)213040800	13	4	8	10
222	MPP222K(J)213040800	13	4.5	8	10
272	MPP272K(J)213050900	13	4.5	9	10
332	MPP332K(J)213051000	13	5	10	10
392	MPP392K(J)213051000	13	5.5	11	10
472	MPP472K(J)213061100	13	6	11	10
562	MPP562K(J)213051000	13	5	10	10
682	MPP682K(J)213051000	13	5.5	10.5	10
822	MPP822K(J)213040900	13	4	9	10
103	MPP103K(J)213040900	13	0	9	10
123	MPP123K(J)213051000	13	4.5	10	10
153	MPP153K(J)213051000	13	5	10.5	10
183	MPP183K(J)213051000	13	5.5	11	10
223	MPP223K(J)213040900	13	4	8.5	10
223	MPP223K(J)219051000	18	5	10	15
273	MPP273K(J)213040900	13	4.5	9.5	10
273	MPP273K(J)219051000	18	5.5	10.5	15
333	MPP333K(J)213051000	13	4.5	9.5	10
333	MPP333K(J)219061100	18	5.5	10.5	15
393	MPP393K(J)213061100	13	5	10	10
393	MPP393K(J)219061100	18	6	11	15
473	MPP473K(J)213040900	13	4.5	9.5	10
473	MPP473K(J)219051000	18	5	10	15
563	MPP563K(J)213051000	13	5	10	10
563	MPP563K(J)219051000	18	5.5	10.5	15
683	MPP683K(J)213051000	13	5.5	10.5	10
683	MPP683K(J)219051000	18	5.5	10.5	15
823	MPP823K(J)213051000	13	5	10	10
823	MPP823K(J)219061300	18	6	13	15
104	MPP104K(J)213051000	13	5.5	10.5	10
104	MPP104K(J)219061300	18	6	13	15
124	MPP124K(J)213061100	13	6	11	10
124	MPP124K(J)219071300	18	7	13	15
154	MPP154K(J)213071200	13	6.5	11.5	10
154	MPP154K(J)219061100	18	6	11	15
184	MPP184K(J)213061100	13	6	11	10
184	MPP184K(J)219061200	18	6	12	15
224	MPP224K(J)213061100	13	6.5	11.5	10
224	MPP224K(J)219071300	18	7	13	15
274	MPP274K(J)219081500	18	8	15	15
274	MPP274K(J)224071400	23	7	14	20
334	MPP334K(J)219061300	18	7	13.5	15
394	MPP394K(J)219081500	18	7.5	14.5	15
394	MPP394K(J)224071400	23	7	14	20
474	MPP474K(J)219061300	18	6.5	13	15
474	MPP474K(J)219081500	18	8.5	15.5	15
474	MPP474K(J)224081500	23	8	15	20
564	MPP564K(J)219071300	18	7	13.5	15
564	MPP564K(J)219101600	18	9.5	16.5	15
564	MPP564K(J)224091500	23	9.5	15	20
684	MPP684K(J)219081500	18	7.5	14.5	15

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
<b>400VDC</b>					
102	MPP102K(J)413030700	13	3.5	7	10
122	MPP122K(J)413030700	13	3.5	7	10
152	MPP152K(J)413040700	13	4	8	10
182	MPP182K(J)413040800	13	4	8	10
222	MPP222K(J)413040800	13	4.5	8	10
272	MPP272K(J)413050900	13	4.5	9	10
332	MPP332K(J)413051000	13	5	10	10
392	MPP392K(J)413051000	13	5.5	11	10
472	MPP472K(J)413061100	13	6	11	10
562	MPP562K(J)413051000	13	5	10	10
682	MPP682K(J)413051000	13	5.5	10.5	10
822	MPP822K(J)413040900	13	4	9	10
103	MPP103K(J)413040900	13	4	9	10
123	MPP123K(J)413051000	13	4.5	10	10
153	MPP153K(J)413051000	13	5	10.5	10
183	MPP183K(J)413051000	13	5.5	11	10
223	MPP223K(J)413040900	13	4	8.5	10
223	MPP223K(J)419051000	18	5	10	15
273	MPP273K(J)413040900	13	4.5	9.5	10
273	MPP273K(J)419051000	18	5.5	10.5	15
333	MPP333K(J)413051000	13	4.5	9.5	10
333	MPP333K(J)419061100	18	5.5	10.5	15
393	MPP393K(J)413061100	13	5	10	10
393	MPP393K(J)419061100	18	6	11	15
473	MPP473K(J)413040900	13	4.5	9.5	10
473	MPP473K(J)419051000	18	5	10	15
563	MPP563K(J)413051000	13	5	10	10
563	MPP563K(J)419051000	18	5.5	10.5	15
683	MPP683K(J)413051000	13	5.5	10.5	10
683	MPP683K(J)419051000	18	5.5	10.5	15
823	MPP823K(J)413051000	13	5	10	10
823	MPP823K(J)419061300	18	6	13	15
104	MPP104K(J)413051000	13	5.5	10.5	10
104	MPP104K(J)419061300	18	6	13	15
124	MPP124K(J)413061100	13	6	11	10
124	MPP124K(J)419071300	18	7	13	15
154	MPP154K(J)413071200	13	6.5	11.5	10
154	MPP154K(J)419061100	18	6	11	15
184	MPP184K(J)413061100	13	6	11	10
184	MPP184K(J)419061200	18	6	12	15
224	MPP224K(J)413061100	13	6.5	11.5	10
224	MPP224K(J)419071300	18	7	13	15
274	MPP274K(J)419081500	18	8	15	15
274	MPP274K(J)424071400	23	7	14	20
334	MPP334K(J)419061300	18	7	13.5	15
394	MPP394K(J)419081500	18	7.5	14.5	15
394	MPP394K(J)424071400	23	7	14	20
474	MPP474K(J)419061300	18	6.5	13	15
474	MPP474K(J)419081500	18	8.5	15.5	15
474	MPP474K(J)424081500	23	8	15	20
564	MPP564K(J)419071300	18	7	13.5	15
564	MPP564K(J)419101600	18	9.5	16.5	15
564	MPP564K(J)424091500	23	9.5	15	20
684	MPP684K(J)419081500	18	7.5	14.5	15



**CBB21 (MPP) Dimension Lists**

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
684	MPP684K(J)219101700	18	10.5	17.5	15
684	MPP684K(J)224081500	23	8	15	20
824	MPP824K(J)219081500	18	8	15	15
824	MPP824K(J)224091600	23	9	16	20
105	MPP105K(J)219101700	18	10	16.5	15
105	MPP105K(J)224101700	23	10	17	20
125	MPP125K(J)224101900	23	10.5	19	20
155	MPP155K(J)224122000	23	12	20	20
155	MPP155K(J)231101800	30	10	18	27.5
185	MPP185K(J)224101900	23	0	18.5	20
185	MPP185K(J)231111900	30	11	19	27.5
225	MPP225K(J)224112000	23	11	20	20
225	MPP225K(J)231122000	30	12	20.5	27.5
275	MPP275K(J)229111900	28	11	19	25
275	MPP275K(J)231132200	30	13.5	22	27.5
335	MPP335K(J)229122000	28	12	20.5	25
335	MPP335K(J)231152300	30	15	23.5	27.5
395	MPP395K(J)229132200	28	13	22	25
395	MPP395K(J)235152300	34	14.5	23	31
475	MPP475K(J)229132100	28	12	0	25
475	MPP475K(J)235162400	34	16	24	31
565	MPP565K(J)235142200	34	14	22	31
565	MPP565K(J)235182600	34	18	26	31
685	MPP685K(J)235152400	34	15	24	31
825	MPP825K(J)235172500	34	17	25	31
<b>630VDC</b>					
102	MPP102K(J)613030700	13	3.5	7	10
122	MPP122K(J)613030700	13	3.5	7	10
152	MPP152K(J)613040700	13	3.5	7	10
182	MPP182K(J)613040800	13	4	8	10
222	MPP222K(J)613040800	13	4.5	8	10
272	MPP272K(J)613050900	13	4.5	9	10
332	MPP332K(J)613051000	13	5	10	10
392	MPP392K(J)613051000	13	5.5	11	10
472	MPP472K(J)613061100	13	6	11	10
562	MPP562K(J)613051000	13	5	10	10
682	MPP682K(J)613051000	13	5.5	10.5	10
822	MPP822K(J)613040900	13	4	9	10
103	MPP103K(J)613040900	13	4	9	10
123	MPP123K(J)613051000	13	4.5	10	10
153	MPP153K(J)613051000	13	5	10.5	10
183	MPP183K(J)613051000	13	5.5	11	10
223	MPP223K(J)613040900	13	4	8.5	10
223	MPP223K(J)619051000	18	5	10	15
273	MPP273K(J)613040900	13	4.5	9.5	10
273	MPP273K(J)619051000	18	5.5	10.5	15
333	MPP333K(J)613051000	13	4.5	9.5	10
333	MPP333K(J)619061100	18	5.5	10.5	15
393	MPP393K(J)613061100	13	5	10	10
393	MPP393K(J)619061100	18	6	11	15
473	MPP473K(J)613061100	13	6	11	10
473	MPP473K(J)619051000	18	5	10	15
563	MPP563K(J)613061100	13	6	11	10
563	MPP563K(J)613051000	18	5	11	15
683	MPP683K(J)613061100	13	6	11.5	10

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
684	MPP684K(J)419101700	18	10.5	17.5	15
684	MPP684K(J)424081500	23	8	15	20
824	MPP824K(J)419081500	18	8	15	15
824	MPP824K(J)424091600	23	9	16	20
105	MPP105K(J)419101700	18	10	16.5	15
105	MPP105K(J)424101700	23	10	17	20
125	MPP125K(J)424101900	23	10.5	19	20
155	MPP155K(J)424122000	23	12	20	20
155	MPP155K(J)431101800	30	10	18	27.5
185	MPP185K(J)424101900	23	10	18.5	20
185	MPP185K(J)431111900	30	11	19	27.5
225	MPP225K(J)424112000	23	11	20	20
225	MPP225K(J)431122000	30	12	20.5	27.5
275	MPP275K(J)429111900	28	11	19	25
275	MPP275K(J)431132200	30	13.5	22	27.5
335	MPP335K(J)429122000	28	12	20.5	25
335	MPP335K(J)431152300	30	15	23.5	27.5
395	MPP395K(J)429132200	28	13	22	25
395	MPP395K(J)435152300	34	14.5	23	31
475	MPP475K(J)429132100	28	12	21	25
475	MPP475K(J)435162400	34	16	24	31
565	MPP565K(J)435142200	34	14	22	31
565	MPP565K(J)435182600	34	18	26	31
685	MPP685K(J)435152400	34	15	24	31
825	MPP825K(J)435172500	34	17	25	31
<b>1000VDC</b>					
102	MPP102K(J)A13030700	13	3.5	7	10
122	MPP122K(J)A13030700	13	3.5	7	10
152	MPP152K(J)A13040700	13	3.5	7	10
182	MPP182K(J)A13040800	13	4	8	10
222	MPP222K(J)A13040800	13	4.5	8	10
272	MPP272K(J)A13050900	13	4.5	9	10
332	MPP332K(J)A13051000	13	5	10	10
392	MPP392K(J)A13051000	13	5.5	11	10
472	MPP472K(J)A13061100	13	6	11	10
562	MPP562K(J)A13051000	13	5	10	10
682	MPP682K(J)A13051000	13	5.5	10.5	10
822	MPP822K(J)A13040900	13	4	9	10
103	MPP103K(J)A13040900	13	5	9.5	10
123	MPP123K(J)A13051000	13	5.5	10.5	10
153	MPP153K(J)A13051000	13	5.5	10.5	10
183	MPP183K(J)A13061100	13	6.5	11.5	10
223	MPP223K(J)A19061100	18	6	11.5	15
273	MPP273K(J)A19061200	18	6.5	12.5	15
333	MPP333K(J)A19071300	18	7.5	13.5	15
393	MPP393K(J)A19081300	18	8	13.5	15
473	MPP473K(J)A19081500	18	8	15.5	15
563	MPP563K(J)A19091600	18	9	16.5	15
563	MPP563K(J)A24071400	23	7	14	20
683	MPP683K(J)A19101700	18	10	17	15
683	MPP683K(J)A24081500	23	7.7	14.7	20
823	MPP823K(J)A19091600	18	8.5	15.4	15
823	MPP823K(J)A24091600	23	8.5	15.5	20
104	MPP104K(J)A19101700	18	9.9	16.7	15
104	MPP104K(J)A24101700	23	10	16.7	20



## CBB21 (MPP) Dimension Lists

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
683	MPP683K(J)619051100	18	0	10.5	15
823	MPP823K(J)613071300	13	7	13	10
823	MPP823K(J)619061300	18	6	13	15
104	MPP104K(J)613081300	13	8	13	10
104	MPP104K(J)619061300	18	6	13	15
124	MPP124K(J)619081500	18	7	13	15
154	MPP154K(J)619081500	18	8	15	15
154	MPP154K(J)624061200	23	6	12	20
184	MPP184K(J)619061200	18	6	12	15
184	MPP184K(J)619101500	18	9.5	15	15
224	MPP224K(J)619081500	18	8	15	15
224	MPP224K(J)624071400	23	4	14	20
274	MPP274K(J)619101600	18	9.5	16.5	15
274	MPP274K(J)624071400	23	7	14	20
334	MPP334K(J)619111700	18	10.5	17.5	15
334	MPP334K(J)624091600	23	9	16	20
394	MPP394K(J)619111800	18	11.5	18	15
394	MPP394K(J)624081500	23	8	15	20
474	MPP474K(J)624111900	23	11	19	20
474	MPP474K(J)631091600	30	9	16	27.5
564	MPP564K(J)624122000	23	12	20	20
564	MPP564K(J)631101700	30	10	17	27.5
684	MPP684K(J)631091700	30	9	17	27.5
684	MPP684K(J)624132100	23	13	21	20
824	MPP824K(J)631101900	30	10	19	27.5
824	MPP824K(J)624142200	23	14	22	20
105	MPP105K(J)631112000	30	11	20	27.5
105	MPP105K(J)624162400	23	16	24	20
125	MPP125K(J)631132100	30	13	21	27.5
125	MPP125K(J)635132100	34	13	21	31
155	MPP155K(J)631142300	30	14	23	27.5
155	MPP155K(J)635152300	34	15	23	31
185	MPP185K(J)631152400	30	15	24	27.5
185	MPP185K(J)635162400	34	16	24	31
225	MPP225K(J)631172600	30	17	26	27.5
225	MPP225K(J)635182600	34	18	26	31
275	MPP275K(J)631192800	30	19.5	28	27.5
275	MPP275K(J)635202800	34	20	28	31

Cap.	Part No.	Dimensions (mm)			Pitch (mm)
		W±1.0	T ±1.0	H±1.0	
104	MPP104K(J)A31081500	30	7.7	14.6	27.5
124	MPP124K(J)A19111800	18	10.8	17.6	15
124	MPP124K(J)A24101900	23	10.3	18.6	20
124	MPP124K(J)A31091600	30	8.4	15.4	27.5
154	MPP154K(J)A24122000	23	11.6	19.9	20
154	MPP154K(J)A31101700	30	10	16.8	27.5
184	MPP184K(J)A24132100	23	12.7	21.1	20
184	MPP184K(J)A31101900	30	10.3	18.7	27.5
224	MPP224K(J)A24142300	23	14.2	22.5	20
224	MPP224K(J)A31122000	30	11.4	19.8	27.5
274	MPP274K(J)A31132100	30	12.8	21.1	27.5
334	MPP334K(J)A31142400	30	13.5	23.5	27.5
394	MPP394K(J)A31152500	30	14.8	24.8	27.5
474	MPP474K(J)A31172700	30	16.4	26.4	27.5