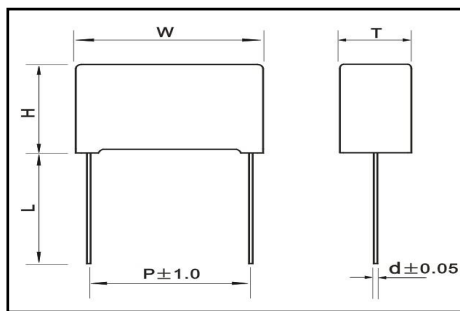


## Metallized Polypropylene Film Capacitor –Box Type: CBB21-B(MPB)

Are non-inductively wound or stacked with metallized polypropylene film as dielectric/electrode with copper-clad steel leads and encapsulated in a plastic case sealed with epoxy resin.

### ◆ Outline Drawing:



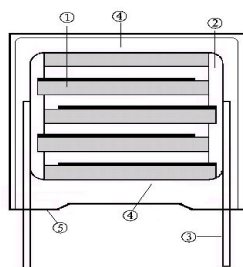
### ◆ Features:

- Low dissipation factor high insulation resistance.
- Low loss at high frequency/Small inherent temperature rise.
- Plastic case(UL94 V-0), Epoxy resin sealing.

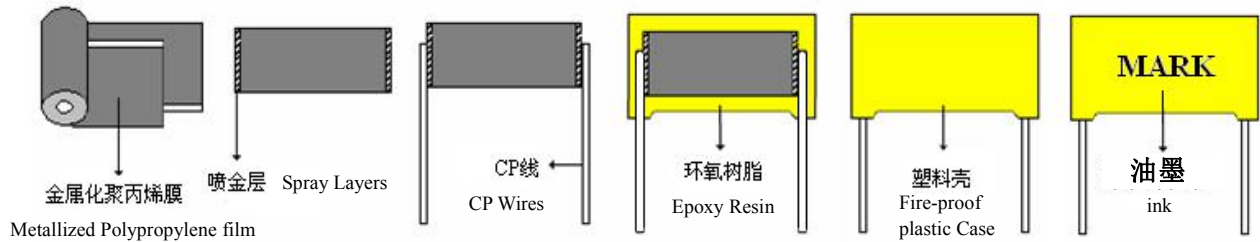
### ◆ Typical Applications:

- Pus applications with high A.C. voltage and high current.
- Electric lighting (i.e. Electric ballast, E-HID)
- High-frequencies A.C. loads.
- TV S-correct circuit design, emergency light, switch power, timing, oscillation loop, CFL, CCFL

### ◆ Structure Chart:



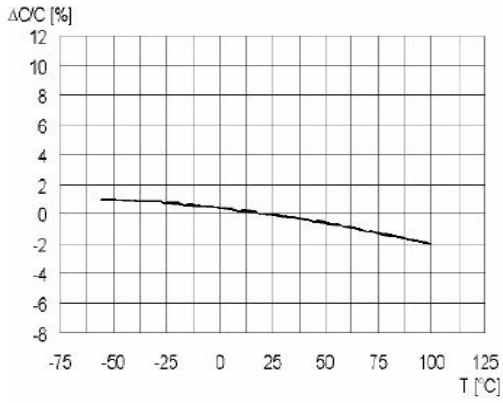
- ① Metallized Polypropylene film
- ② Spray Layers
- ③ CP Wires
- ④ Epoxy Resin
- ⑤ Fire-proof plastic Case



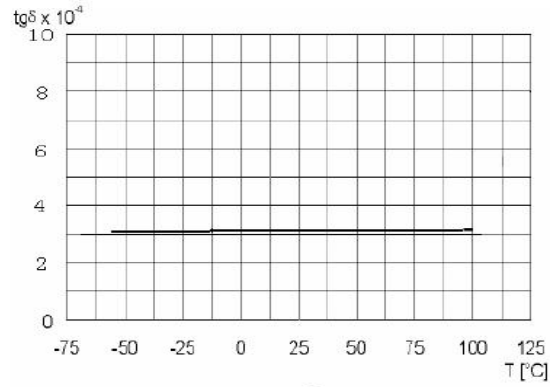
◆ **Specification:**

Reference Standards:	GB10190-88 (IEC60384-16)
Rated Voltage(UR):	100VDC; 250VDC; 400VDC; 630VDC; 1000VDC
Climate Category	40/125/21
Rated Temperature	85°C
Operation Temperature Range:	-40°C - +125°C
Capacitance Range:	0.001μF – 4.7μF
Capacitance Tolerance Range:	J(±5%); K(±10%); M (±20%)
Dielectric	Polypropylene Film
( 25°C±5°C ) Dissipation Factor Tanδ:	≤0.1% (1KHZ) (25°C±5°C)
Insulation Resistance(Between Terminals)	100VDC, Min C≤0.33μF ≥50000MΩ >0.33μF ≥15000 MΩ·S
Withstand Voltage:	1.6UR(5S)
Life. Test Conditions:	110±2°C, 1.25UR, 1,000Hours Capacitance Drift: ≤±3% Of the initial value Dissipation Factor ≤50% (1KHz)

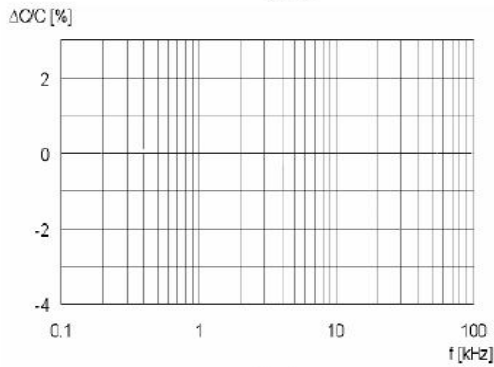
◆ Polypropylene film capacitor characteristic curve:



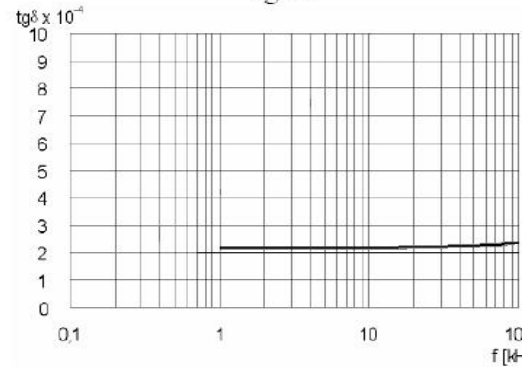
C-T



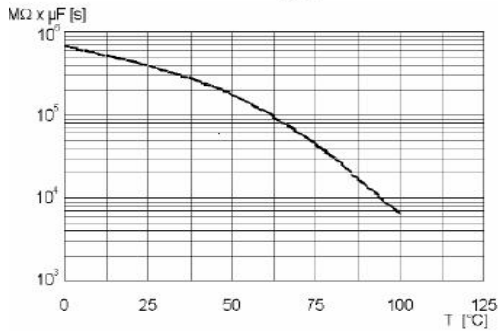
tgδ-T



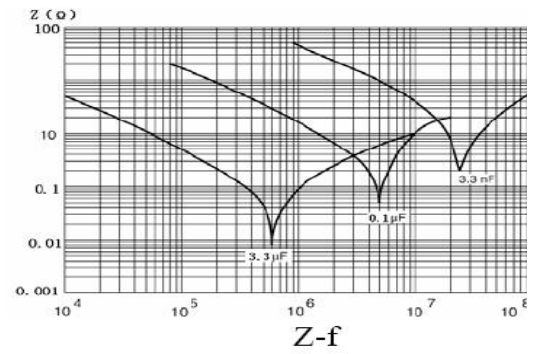
C-f



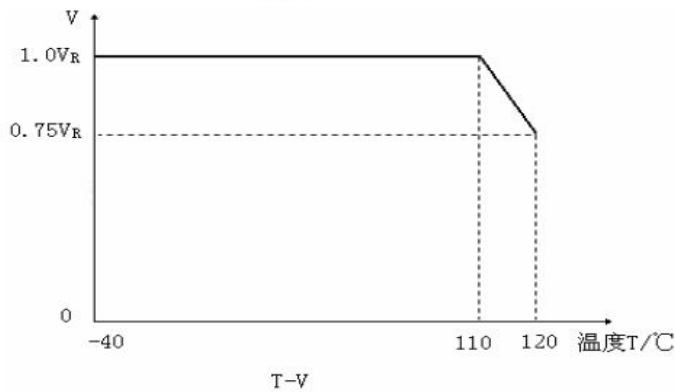
tgδ-f



R-T




Z-f



T-V

**◆ Dimension Lists (mm) Diagram**

<p style="text-align: center;"><b>Metallized Polypropylene Film Capacitor –Box</b></p> <p style="text-align: center;"><b>Type: CBB21-B/ MPB</b></p>	
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Cap Code	Cap Value uF	Part No	Dimensions (mm)				
			W max	T max	H max	P max	d ±0.05
100VDC(63VAC)/250VDC (160VAC)							
223	0.022	MPB223K(J)250V	10.0	4.0	9.0	7.5	0.6
333	0.033	MPB333K(J)250V	13.0	5.0	11.0	10	0.6
333	0.033	MPB333K(J)250V	18.0	5.0	11.0	15	0.6
473	0.047	MPB473K(J)250V	13.0	6.0	12.0	10	0.6
473	0.047	MPB473K(J)250V	18.0	5.0	11.0	15	0.6
563	0.056	MPB563K(J)250V	13.0	6.0	12.0	10	0.6
563	0.056	MPB563K(J)250V	18.0	5.0	11.0	15	0.6
683	0.068	MPB683K(J)250V	13.0	6.0	12.0	10	0.6
683	0.068	MPB683K(J)250V	18.0	5.0	11.0	15	0.6
823	0.082	MPB823K(J)250V	13.0	6.0	12.0	10	0.6
823	0.082	MPB823K(J)250V	18.0	5.0	11.0	15	0.6
104	0.1	MPB104K(J)250V	13.0	6.0	12.0	10	0.6
104	0.1	MPB104K(J)250V	18.0	5.0	11.0	15	0.6
124	0.12	MPB124K(J)250V	13.0	6.0	12.0	10	0.6
154	0.15	MPB154K(J)250V	13.0	6.0	12.0	10	0.6
184	0.18	MPB184K(J)250V	18.0	6.0	12.0	15	0.8
224	0.22	MPB224K(J)250V	18.0	6.0	12.0	15	0.8
274	0.27	MPB274K(J)250V	18.0	7.5	13.5	15	0.8
334	0.33	MPB334K(J)250V	18.0	7.5	13.5	15	0.8
394	0.39	MPB394K(J)250V	18.0	8.4	14.5	15	0.8
474	0.47	MPB474K(J)250V	18.0	8.4	14.5	15	0.8
564	0.56	MPB564K(J)250V	18.0	10	15.8	15	0.8
684	0.68	MPB684K(J)250V	18.0	10.8	19.0	15	0.8
824	0.82	MPB824K(J)250V	18.0	10.8	19.0	15	0.8
105	1.0	MPB105K(J)250V	26.5	8.5	17.0	22.5	0.8
125	1.2	MPB125K(J)250V	26.5	10	19	22.5	0.8
155	1.5	MPB155K(J)250V	26.5	10	19	22.5	0.8

185	1.8	MPB185K(J)250V	26.5	12	21.5	22.5	0.8
205	2.0	MPB205K(J)250V	26.5	13	23	22.5	0.8
225	2.2	MPB225K(J)250V	26.5	13	23	22.5	0.8
275	2.7	MPB275K(J)250V	31.5	13	21.5	27.5	0.8
305	3.0	MPB305K(J)250V	31.5	13	21.5	27.5	0.8
335	3.3	MPB335K(J)250V	31.5	14.0	25.0	27.5	0.8
405	4.0	MPB405K(J)250V	38.0	14.0	23.0	31.5	1.0
475	4.7	MPB475K(J)250V	36.5	15.4	26.3	31.5	1.0
400VDC(220VAC)							
103	0.01	MPB103K(J)400V	12.0	4.0	9.0	10	0.6
103	0.01	MPB103K(J)400V	18.0	5.0	11.0	15	0.6
153	0.015	MPB153K(J)400V	12.0	4.0	9.0	10	0.6
153	0.015	MPB153K(J)400V	18.0	5.0	11.0	15	0.6
183	0.018	MPB183K(J)400V	12.0	4.0	9.0	10	0.6
183	0.018	MPB183K(J)400V	18.0	5.0	11.0	15	0.6
223	0.022	MPB223K(J)400V	12.0	4.0	9.0	10	0.6
223	0.022	MPB223K(J)400V	18.0	5.0	11.0	15	0.6
333	0.033	MPB333K(J)400V	13.0	5.0	11.0	10	0.6
333	0.033	MPB333K(J)400V	18.0	5.0	11.0	15	0.6
473	0.047	MPB473K(J)400V	13.0	6.0	12.0	10	0.6
473	0.047	MPB473K(J)400V	18.0	5.0	11.0	15	0.6
563	0.056	MPB563K(J)400V	13.0	6.0	12.0	10	0.6
563	0.056	MPB563K(J)400V	18.0	5.0	11.0	15	0.6
683	0.068	MPB683K(J)400V	13.0	6.0	12.0	10	0.6
683	0.068	MPB683K(J)400V	18.0	5.0	11.0	15	0.6
823	0.082	MPB823K(J)400V	13.0	6.0	12.0	10	0.6
823	0.082	MPB823K(J)400V	18.0	5.0	11.0	15	0.6
104	0.1	MPB104K(J)400V	18.0	5.0	11.0	15	0.6
124	0.12	MPB124K(J)400V	18.0	5.0	11.0	15	0.6
154	0.15	MPB154K(J)400V	18.0	6.0	12.0	15	0.8
184	0.18	MPB184K(J)400V	18.0	6.0	12.0	15	0.8
184	0.18	MPB184K(J)400V	26.5	6.0	15.0	22.5	0.8
224	0.22	MPB224K(J)400V	18.0	7.5	13.5	15	0.8
224	0.22	MPB224K(J)400V	26.5	7.0	16.5	22.5	0.8
274	0.27	MPB274K(J)400V	18.0	7.5	13.5	15	0.8
274	0.27	MPB274K(J)400V	26.5	7.0	16.5	22.5	0.8
334	0.33	MPB334K(J)400V	18.0	8.4	14.5	15	0.8
334	0.33	MPB334K(J)400V	26.5	8.5	17.0	22.5	0.8
394	0.39	MPB394K(J)400V	18.0	9.5	15.5	15	0.8
394	0.39	MPB394K(J)400V	26.5	10.0	19.0	22.5	0.8

474	0.47	MPB474K(J)400V	18.0	10	15.8	15	0.8
474	0.47	MPB474K(J)400V	26.5	10.0	19.0	22.5	0.8
564	0.56	MPB564K(J)400V	26.5	8.5	17.0	22.5	0.8
684	0.68	MPB684K(J)400V	26.5	10.0	19.0	22.5	0.8
824	0.82	MPB824K(J)400V	26.5	10.0	19.0	22.5	0.8
105	1.0	MPB105K(J)400V	26.5	11.0	20.0	22.5	0.8
105	1.0	MPB105K(J)400V	31.0	10.8	19.5	27.5	0.8
125	1.2	MPB125K(J)400V	26.5	11.0	20.0	22.5	0.8
125	1.2	MPB125K(J)400V	31.0	13.0	21.5	27.5	0.8
155	1.5	MPB155K(J)400V	26.5	11.0	20.0	22.5	0.8
155	1.5	MPB125K(J)400V	31.0	13.0	21.5	27.5	0.8
205	2.0	MPB205K(J)400V	31.0	13.0	21.5	27.5	0.8
225	2.2	MPB205K(J)400V	31.0	14.0	25.0	27.5	0.8
275	2.7	MPB275K(J)400V	38.0	14.0	23.0	31.5	0.8
335	3.3	MPB335K(J)400V	38.0	18.0	28.0	31.5	0.8
405	4.0	MPB405K(J)400V	38.0	20.0	30.0	31.5	0.8
475	4.7	MPB475K(J)400V	38.0	20.0	30.0	31.5	0.8
630VDC(250VAC)							
682	0.0068	MPB682K(J)630V	12.0	4.0	9.0	10	0.6
822	0.0082	MPB822K(J)630V	12.0	4.0	9.0	10	0.6
103	0.01	MPB103K(J)630V	12.0	4.0	9.0	10	0.6
103	0.01	MPB103K(J)630V	18.0	5.0	11.0	15	0.6
153	0.015	MPB153K(J)630V	12.0	4.0	9.0	10	0.6
153	0.015	MPB153K(J)630V	18.0	5.0	11.0	15	0.6
183	0.018	MPB183K(J)630V	12.0	4.0	9.0	10	0.6
183	0.018	MPB183K(J)630V	18.0	5.0	11.0	15	0.6
223	0.022	MPB223K(J)630V	12.0	4.0	9.0	10	0.6
223	0.022	MPB223K(J)630V	18.0	5.0	11.0	15	0.6
333	0.033	MPB333K(J)630V	13.0	5.0	11.0	10	0.6
333	0.033	MPB333K(J)630V	18.0	5.0	11.0	15	0.6
473	0.047	MPB473K(J)630V	13.0	6.0	12.0	10	0.6
473	0.047	MPB473K(J)630V	18.0	5.0	11.0	15	0.6
563	0.056	MPB563K(J)630V	13.0	6.0	12.0	10	0.6
563	0.056	MPB563K(J)630V	18.0	5.0	11.0	15	0.6
683	0.068	MPB683K(J)630V	13.0	6.0	12.0	10	0.6
683	0.068	MPB683K(J)630V	18.0	5.0	11.0	15	0.6
823	0.082	MPB823K(J)630V	13.0	6.0	12.0	10	0.6
823	0.082	MPB823K(J)630V	18.0	5.0	11.0	15	0.6
104	0.1	MPB104K(J)630V	18.0	6.0	12.0	15	0.8
124	0.12	MPB124K(J)630V	18.0	6.0	12.0	15	0.8

154	0.15	MPB154K(J)630V	18.0	7.5	13.5	15	0.8
184	0.18	MPB184K(J)630V	26.5	6.0	15.0	22.5	0.8
224	0.22	MPB224K(J)630V	26.5	7.0	16.5	22.5	0.8
274	0.27	MPB274K(J)630V	26.5	7.0	16.5	22.5	0.8
334	0.33	MPB334K(J)630V	26.5	8.5	17.0	22.5	0.8
394	0.39	MPB394K(J)630V	26.5	10.0	19.0	22.5	0.8
474	0.47	MPB474K(J)630V	26.5	10.0	19.0	22.5	0.8
564	0.56	MPB564K(J)630V	26.5	11.0	20.0	22.5	0.8
684	0.68	MPB684K(J)630V	26.5	12.0	21.5	22.5	0.8
684	0.68	MPB684K(J)630V	31.5	10.8	19.5	27.5	0.8
824	0.82	MPB824K(J)630V	26.5	12.0	21.5	22.5	0.8
824	0.82	MPB824K(J)630V	31.5	10.8	19.5	27.5	0.8
105	1.0	MPB105K(J)630V	31.5	13.0	21.5	27.5	0.8
125	1.2	MPB125K(J)630V	31.5	13.0	21.5	27.5	0.8
155	1.5	MPB155K(J)630V	32.0	16.0	25.5	27.5	0.8
205	2.0	MPB205K(J)630V	32.0	18.0	28.0	27.5	0.8
225	2.2	MPB225K(J)630V	32.0	18.0	28.0	27.5	0.8
275	2.7	MPB275K(J)630V	32.0	22.0	31.0	27.5	0.8
305	3.0	MPB305K(J)630V	38.8	21.7	31.3	31.5	0.8
335	3.3	MPB335K(J)630V	38.8	21.7	31.3	31.5	0.8
405	4.0	MPB405K(J)630V	50.0	22.2	32.0	41.5	1.0
475	4.7	MPB475K(J)630V	50.0	22.2	32.0	41.5	1.0
1000VDC(400VAC)							
222	0.0022	MPB222K(J)1000V	12.0	4.0	9.0	10	0.6
272	0.0027	MPB272K(J)1000V	12.0	4.0	9.0	10	0.6
332	0.0033	MPB332K(J)1000V	12.0	4.0	9.0	10	0.6
392	0.0039	MPB392K(J)1000V	12.0	4.0	9.0	10	0.6
472	0.0047	MPB472K(J)1000V	12.0	4.0	9.0	10	0.6
562	0.0056	MPB562K(J)1000V	12.0	4.0	9.0	10	0.6
682	0.0068	MPB682K(J)1000V	12.0	4.0	9.0	10	0.6
822	0.0082	MPB822K(J)1000V	12.0	4.0	9.0	10	0.6
103	0.01	MPB103K(J)1000V	12.0	4.0	9.0	10	0.6
103	0.01	MPB103K(J)1000V	18.0	5.0	11.0	15	0.6
153	0.015	MPB153K(J)1000V	18.0	5.0	11.0	15	0.6
183	0.018	MPB183K(J)1000V	18.0	5.0	11.0	15	0.6
223	0.022	MPB223K(J)1000V	18.0	5.0	11.0	15	0.6
473	0.047	MPB473K(J)1000V	18.0	6.0	12.0	15	0.8
563	0.056	MPB563K(J)1000V	18.0	7.5	13.5	15	0.8
683	0.068	MPB683K(J)1000V	18.0	7.5	13.5	15	0.8
823	0.082	MPB823K(J)1000V	18.0	8.4	14.5	15	0.8



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info@tuoshengtech.com

www.tuoshengtech.com

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104	0.1	MPB104K(J)1000V	18.0	10.0	15.8	15	0.8
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