



深圳市纬迪实业发展有限公司

SHENZHEN WEIDY INDUSTRIAL DEVELOPMENT CO., LTD.

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# 规格书

## SPECIFICATION SHEET

CBB21

(DESCRIPTION)

Metallized Polypropylene Film Capacitor

(CUSTOMER)

Spark Intertrade Co.,Ltd.

(DATE)

May 20th, 2010



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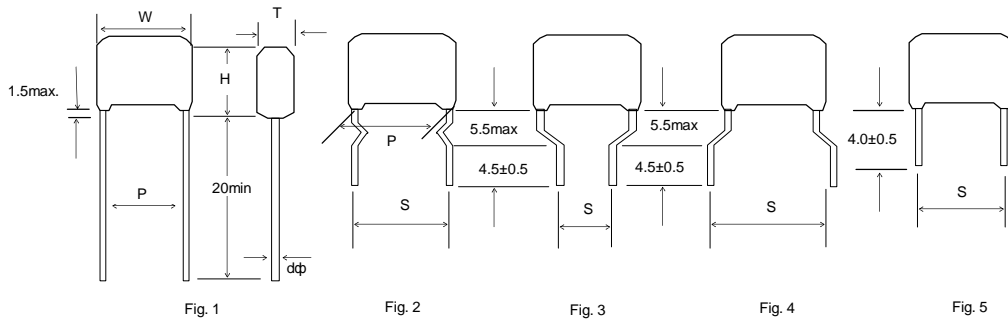
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**PRODUCT SPECIFICATIONS**

CUSTOMER	:	<b>Spark Intertrade Co.,Ltd.</b>
CUSTOMER'S PART NO.	:	
DESCRIPTIONS	:	<b>Metallized Polypropylene Film Capacitor</b>
WEIDY TYPE	:	<b>CBB21</b>



**DIMENSIONS / 产品尺寸:**

Unit : mm

R.V. SIZE CAP(uF)	100VDC(2A)					250VDC(2E)					400VDC(2G)					630VDC(2J)				
	W max.	H max.	T max.	P ±1.0	dφ ±0.05	W max.	H max.	T max.	P ±1.0	dφ ±0.05	W max.	H max.	T max.	P ±1.0	dφ ±0.05	W max.	H max.	T max.	P ±1.0	dφ ±0.05
0.010											10.5	10.0	5.5	7.5	0.6	13.0	11.5	6.0	10.0	0.6
0.012											10.5	10.5	6.0	7.5	0.6	13.0	12.0	6.5	10.0	0.6
0.015											10.5	11.0	6.5	7.5	0.6	13.0	12.5	7.0	10.0	0.6
0.018											10.5	11.5	7.0	7.5	0.6	13.0	13.0	7.5	10.0	0.6
0.022						10.5	10.5	6.0	7.5	0.6	10.5	12.0	8.0	7.5	0.6	13.0	13.5	8.0	10.0	0.6
0.027						10.5	11.0	6.5	7.5	0.6	13.0	12.0	6.5	10.0	0.6	19.0	13.0	7.5	15.0	0.6
0.033	10.5	9.0	5.5	7.5	0.6	10.5	11.5	7.0	7.5	0.6	13.0	12.5	6.5	10.0	0.6	19.0	13.5	7.5	15.0	0.6
0.039	10.5	9.5	5.5	7.5	0.6	10.5	12.0	7.5	7.5	0.6	13.0	13.0	7.5	10.0	0.6	19.0	14.0	8.0	15.0	0.6
0.047	10.5	9.5	5.5	7.5	0.6	10.5	12.5	8.0	7.5	0.6	13.0	13.5	8.0	10.0	0.6	19.0	15.5	9.5	15.0	0.8
0.056	10.5	10.0	6.0	7.5	0.6	13.0	12.0	7.0	10.0	0.6	13.0	14.5	8.5	10.0	0.6	19.0	17.0	9.5	15.0	0.8
0.068	10.5	10.0	6.5	7.5	0.6	13.0	12.5	7.5	10.0	0.6	19.0	14.5	7.0	15.0	0.6	24.0	16.0	8.5	20.0	0.8
0.082	10.5	11.0	6.5	7.5	0.6	13.0	13.5	8.0	10.0	0.6	19.0	15.5	8.0	15.0	0.6	24.0	17.0	9.5	20.0	0.8
0.10	10.5	11.0	7.0	7.5	0.6	13.0	14.5	8.0	10.0	0.6	19.0	16.0	8.5	15.0	0.6	24.0	17.5	10.0	20.0	0.8
0.12	10.5	12.5	7.5	7.5	0.6	13.0	15.0	8.5	10.0	0.6	19.0	17.0	9.5	15.0	0.6	24.0	18.5	11.0	20.0	0.8
0.15	13.0	12.0	7.0	10.0	0.6	19.0	14.0	7.5	15.0	0.6	19.0	17.5	10.0	15.0	0.8	24.0	19.0	12.0	20.0	0.8
0.18	13.0	12.5	7.0	10.0	0.6	19.0	15.0	8.0	15.0	0.6	24.0	17.5	8.5	20.0	0.8	24.0	20.0	12.5	20.0	0.8
0.22	13.0	12.5	7.5	10.0	0.6	19.0	16.0	9.0	15.0	0.6	24.0	18.0	9.5	20.0	0.8	30.0	21.5	11.0	25.0	0.8
0.27	13.0	13.5	8.0	10.0	0.6	19.0	17.0	10.0	15.0	0.6	24.0	18.0	10.0	20.0	0.8	30.0	23.0	12.5	25.0	0.8
0.33	19.0	13.0	7.5	15.0	0.6	19.0	18.0	10.5	15.0	0.6	24.0	18.5	10.0	20.0	0.8	30.0	24.0	13.5	25.0	0.8
0.39	19.0	13.5	8.0	15.0	0.6	24.0	18.5	9.5	20.0	0.8	24.0	19.0	11.0	20.0	0.8	32.0	24.5	13.5	27.5	0.8
0.47	19.0	14.0	8.5	15.0	0.8	24.0	19.5	9.5	20.0	0.8	24.0	20.0	11.0	20.0	0.8	32.0	24.5	14.0	27.5	0.8
0.56	19.0	16.0	9.0	15.0	0.8	24.0	20.0	10.0	20.0	0.8	30.0	22.0	12.0	25.0	0.8	32.0	26.0	16.0	27.5	0.8
0.68	19.0	16.5	10.0	15.0	0.8	24.0	20.0	11.0	20.0	0.8	30.0	23.5	13.0	25.0	0.8	32.0	26.5	16.5	27.5	0.8
0.82	19.0	17.5	10.5	15.0	0.8	24.0	21.0	11.5	20.0	0.8	30.0	24.0	13.5	25.0	0.8	32.0	30.0	20.0	27.5	0.8
1.0	24.0	18.0	11.0	20.0	0.8	24.0	21.0	12.0	20.0	0.8	30.0	25.0	14.0	25.0	0.8	32.0	32.0	22.0	27.5	0.8
1.2	24.0	19.5	10.5	20.0	0.8	30.0	22.0	12.0	25.0	0.8	/	/	/	/	/	/	/	/	/	/
1.5	24.0	19.5	11.0	20.0	0.8	30.0	23.0	13.0	25.0	0.8	/	/	/	/	/	/	/	/	/	/
1.8	24.0	20.5	11.5	20.0	0.8	30.0	24.0	13.5	25.0	0.8	/	/	/	/	/	/	/	/	/	/
2.2	24.0	21.0	12.5	20.0	0.8	30.0	25.5	14.0	25.0	0.8	/	/	/	/	/	/	/	/	/	/
2.7	30.0	22.0	13.0	25.0	0.8	30.0	27.0	16.0	25.0	0.8	/	/	/	/	/	/	/	/	/	/
3.3	30.0	22.5	14.5	25.0	0.8	30.0	28.5	18.0	25.0	0.8	/	/	/	/	/	/	/	/	/	/

© For inquiry of items out of above range or with special dimensions, please do not hesitate to contact with us for availability.

© Specifications are subject to change without notice. Please refer to approval sheets for final and mutually agreed specifications.





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★ Characteristics			TYPE(规格): CBB21	
No.	Test items		Test method	Characteristics
1	Climatic Category		/	40/105/21
2	Rated voltage		/	50V — 1000VDC
3	Withstand Voltage(TV)		160% of rated voltage for 5sec.	Shall be no abnormality.
4	Capacitance(CAP)		Measuring Frequency:1KHz±10%. Measuring Voltage :1Vrms.max.	0.01uF — 3.3uF
5	Tolerance (%)		/	J(±5%); K (±10%)
6	Dissipation Factor(DF)		Measuring Frequency:1KHz±10%. Measuring Voltage :1Vrms.max.	0.001 (0.2%)max. at 1 KHz.
7	Insulation resistance(IR)		Apply 100V±15%for 60±5sec.at+20 ±2°C .	≥30,000MΩ(C≤0.33uF) ≥10,000MΩ·uF/C (C>0.33uF)
8	Terminal Strength	Tensile	Apply 1.0 kg for 10 ± 1sec. to the terminal in the axial direction, and acting in a direction away from the body.	Shall be no abnormality.
9		Bending	Apply 0.5 kg for 2 cycles. Each cycle includes: 90°once, return to its initial position for 2-3 sec. and then to the opposite direction once.	Shall be no abnormality.
10	Solderability		Soldering temperature:250 ±3°C ; Immersion duration: 2.0 ±0.5sec	Good Tinning.
11	Soldering Heat Resistance		Soldering Temperature : +260 ± 5°C . Immersion Duration : 10 ±1sec.	CAP(ΔC/C) Within ±2% of the value before test. DF 0.0015(0.3%) max.at 1Khz
12	Rapid Temperature Change		Test Temperature Cycle : Total 5 cycles. High Temperature : +105±5 °C Low Temperature : -40 ±5°C 30 min ± 10% for each temperature.	Shall be no abnormality. CAP(ΔC/C) Within ±5% of the value before test. DF 0.0015(0.3%) max.at 1Khz
13	Damp Heat Loading		Test temperature :+40 ± 2°C Test humidity : 90% to 95% R.H. Test voltage : rated voltage. Test duration : 500 +24/-0 hrs.	Shall be no remarkable change. The marking shall be legible. CAP(ΔC/C) Within ±5% of the value before test. DF 0.002 (0.5%) max.at 1Khz
14	Climatic Sequence	Dry heat	Temperature: 105°C,Duration: 16 hrs.	Shall be no abnormality. Shall be no remarkable change. CAP(ΔC/C) Within ±5% of the value before test. DF 0.002(0.5%) max.at 1Khz
		Humid Cool	—40°C,Duration: 2 hrs.	
		Air pressure	Temperature: 15°C—35°C,Pressure: 8.5KPa; Duration: 1 hrs; After experiment, applied vottage 1 min.	
		Temperature Cycle	Test Temperature Cycle:Total 5 cycles. Each cycle includes : 1. +20 ±2°C for 3min. 2. -40 ±3 °C for 30 min. 3. +20 ±2°C for 3min. 4. +85 +3/-0 °C for 30 min. 5. +20 ±2°C for 3 min.	
15	Durability		105°C,Applied 1.25 multiple rate voltage, Duration: 1000 hours (41.6 days)	No visible damage and clear mark; CAP(ΔC/C) Within ±5% of the value before test. DF 0.005 (0.5%) max.at 1Khz IR ≥50% of the limit value of No. 7
16	Charge & Discharge		Experiment period :10000 times; Charge duration: 0.5s; Discharge duration: 0.5s;	CAP(ΔC/C) Within ±5% of the value before test. DF 0.002 (0.5%) max.at 1Khz IR ≥50% of the limit value of No. 7



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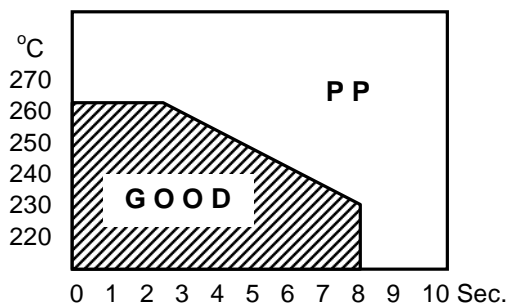
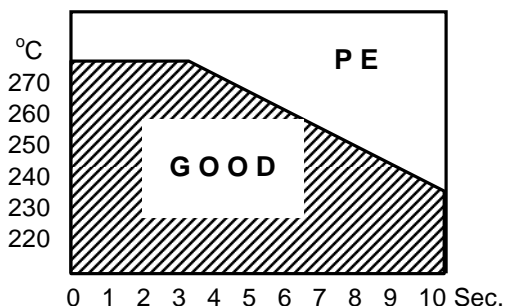
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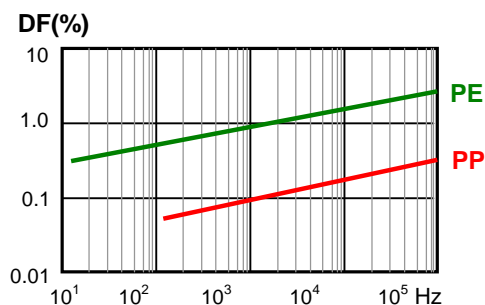
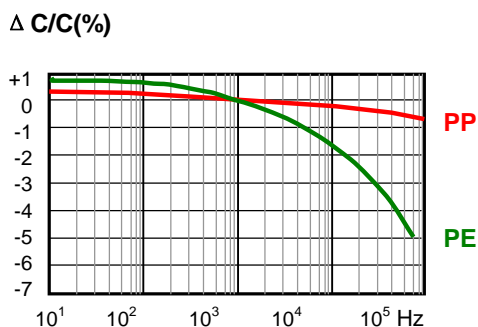
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## CHARACTERISTICS REFERENCE

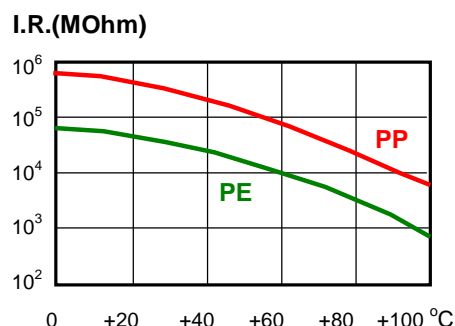
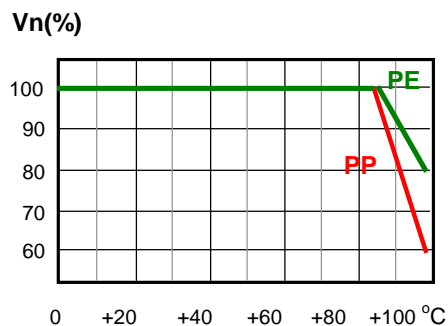
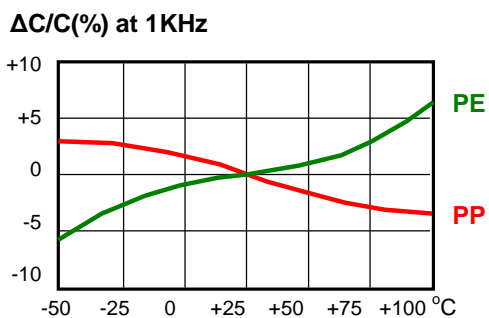
### Soldering Temperature VS Time



### Frequency Characteristics



### Temperature Characteristics





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**CBB21 Permissible AC Voltage VS Frequency Curve**

