

# CBB11 金属箔式聚丙烯膜介质直流固定电容器

Model metal foil type polypropylene film DC stationary capacitor

## 特点与用途 FEATURES & APPLICATION

- 聚丙烯膜作介质，铝箔作电极。
- 环氧树脂浸涂包封，单向引出。
- 电性能优良，损耗小，电容量随温度和频率变化小。
- 适用于频率特性高、功率大、耐压高的节能灯电路和各类电子仪器的直流或脉动电路中。
- Polypropylene film as medium, and aluminum foil as electrode.
- Coated and encapsulated with epoxide resin, and unilateral lead-out.
- Having the excellent electrical performances, low losses and a capacitance of a slight variation with both temperature and frequency.
- Suitable for DC or pulsed circuit in various economical lamps and electronic instruments requiring a high frequency characteristic, high power and high voltage withstand.

## 电性能 SPECIFICATION

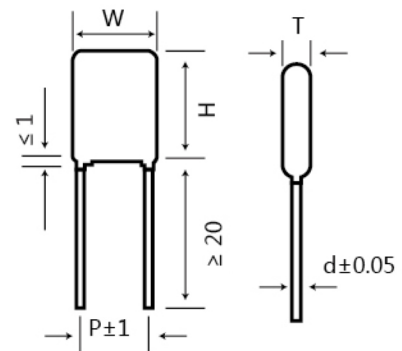
环境温度 Operating temperature range	-55°C~+85°C
电容量偏差等级 Capacitance tolerance	±5%(J), ±10%(K), ±20%(M)
试验电压 Testing voltage	2.5UR (1-5S)
损耗角正切值 Dissipation factor	≤ 0.001 (10KHZ)
绝缘电阻 Insulation resistance	≥ 30000MΩ

## 产品尺寸表 SIZE TABLE

标准容量 (μF) Rated capacitance	额定电压 (V) Rated Voltage		1000V			
	最大外形尺寸 (mm) Max size		W	H	T	d ±0.05
0.001	7.5	14	7.5	4.5	0.5	5
0.0022						
0.0027	8.5	14.5	5.5			
0.0033						
0.004						
0.0047	10.5	15	6.5			
0.0056						
0.0068	11	15.5	7	7.5		
0.0082						
0.01	12	15.5	7.5	0.6	9	
0.015						
0.022						
0.033						
0.047						



## 外形图 APPEARANCE



# CBB20A/T 轴向金属化聚丙烯膜电容器

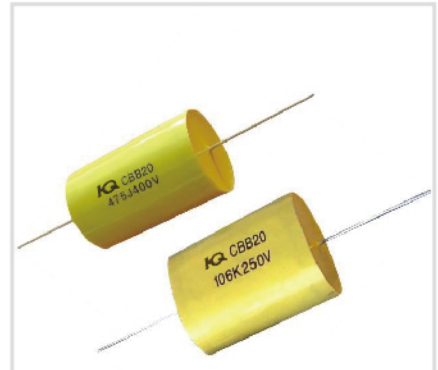
Metalized polypropylene film capacitor ( Axial-type)

## 特点与用途 FEATURES & APPLICATION

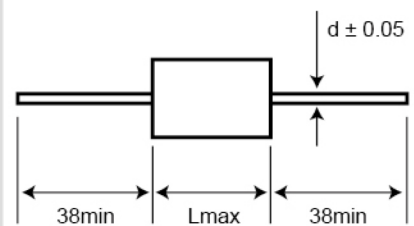
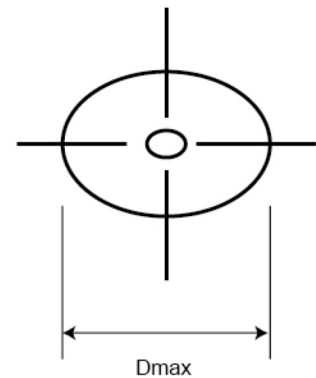
- 金属化聚丙烯，无感卷绕结构，轴向
- 自愈性能优异
- 外包聚酯胶带纸，两端灌注阻燃性环氧树脂
- 温度补偿电路
- 定时、振荡电路
- 功率因素校正、开关电源耦合用
- Metallized Polypropylene film, non-inductive type, axial.
- Excellent self-healing property.
- Wrapped with polyester adhesive tape and ends filled with Flame retardant epoxy resin.
- Temperature compensation circuits.
- Timing, oscillator circuits.
- Power factor correction and coupling capacitor in SMPS applications.

## 技术参数 TECHNICAL PARAMETER

引用标准 Reference Standard	GB/T 10190 (IEC 60384-16)							
气候类别 Climatic Category	40/085/21							
额定温度 Rated Temperature	85°C							
额定电压 Rated Voltage	160V, 250V, 400V, 630V, 1000V, 1200V, 1600V, 2000V, 3000V							
电容量范围 Capacitance Range	0.0010μF-15μF							
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)							
耐电压 Voltage Proof	1.6U <sub>R</sub> (5s)							
损耗角正切 Dissipation Factor	≤ 10 × 10 <sup>-4</sup> (1kHz, 20°C)							
绝缘电阻 Insulation Resistance	≥ 100 000MΩ C <sub>R</sub> ≤ 0.33μF (20°C, 100V, 1min) ≥ 30 000s C <sub>R</sub> > 0.33μF							
最大脉冲爬升速率 Maximum Pulse Rise Time (dV/dt): 若实际工作电压U比额定电压U <sub>R</sub> 低，电容器可工作在更高的dV/dt场合。这样dV/dt允许值应为右表值乘以U <sub>R</sub> /U。 If the working voltage (U) is lower than the rated voltage (U <sub>R</sub> ), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U <sub>R</sub> /U.	U <sub>R</sub> (V)	dV/dt (V/μs)						
		L=12.0	L=14.5	L=20.0	L=27.5	L=33.0	L=41.5	L=56.5
	100/160	150	110	80	60	50	35	20
	250	300	220	150	110	90	60	30
	400	460	330	250	180	120	80	45
	630	600	440	300	220	150	100	60
	1000	800	550	400	300	200	150	80
1250	1000	750	580	400	300	200	100	



## 外形图 APPEARANCE



# CBB21-B 金属化聚丙烯盒式电容器

Metalized polypropylene film capacitor (Box-type)

聚丙烯薄膜电容器

CBB21-B

Polypropylene Film Capacitor

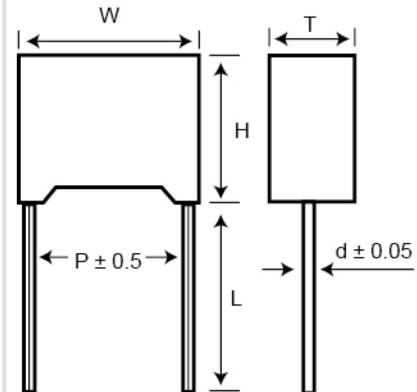
## 特点与用途 FEATURES & APPLICATION

- 金属化聚丙烯膜
  - 优良自愈能力
  - 高频损耗小，内部温升小于8°C
  - 优良的阻燃性能（UL94-v0）
  - 广泛使用中高频，直流，交流，脉冲和降压电路
  - 显示器S校正线路，阻容降压，分压线路
- Metallized polypropylene film.
  - Excellent self-healing properties.
  - Low loss at high frequency, inherent temperature rise max 8°C.
  - CFL, UPS.
  - Excellent flame resistance ability (UL94-V0).
  - Widely used in high frequency, DC, AC, pulse and step-down circuit.
  - Display S correction circuit, a resistance capacitance step-down, dividing line.

## 技术参数 TECHNICAL PARAMETER

产品类别 Products Category	CBB - DC Series				
引用标准 Reference Standard	GB/T14472 (IEC 60384-17)				
气候类型 Climatic Category	40/110/56 IEC 60068-1				
	Average relative humidity≤75%				
	RH=95% for 30 days per year				
	RH=85% for further days limited by average value per year				
温度范围 Operating temperature range	-40 ~ +110 °C				
最高温度 Rated temperature $T_R$	+105°C				
降压曲线 Voltage Derating	Above +100°C DC and AC voltage derating is 4%/°C				
额定电压 Rated Voltage DC $V_R$	250V	400-420V	520V	630V	1000V
额定电压 Rated Voltage AC $V_R$	110V	160-220V	250V	275V	300V
容量范围 Capacitance range $\mu F$	0.22-10	0.01-4.7	0.01-3.3	0.01-2.2	0.01-1.0
容量偏差 Capacitance Tolerance	$\pm 2\%$ (G), $\pm 3\%$ (H), $\pm 5\%$ (J), $\pm 10\%$ (K)				
耐电压 Voltage Proof	极间耐压 Between Terminals		1.75Un (2S)		
	极壳耐压 Between Terminals To Case		2.5Un (5S)		
绝缘电阻 Insulation Resistance	$\geq 30000M\Omega$ (CR $\leq 0.33\mu F$ )		25°C, 1min		
	$\geq 7500s$ (CR $> 0.33\mu F$ )				
损耗角正切 Dissipation factor	Cr < 1 $\mu F$ : DF $\leq 1.0\%$ (10KHZ 25 $\pm 5^\circ C$ )				
	Cr $\geq 1\mu F$ : DF $\leq 1.3\%$ (10KHZ 25 $\pm 5^\circ C$ )				
等效串联电感 Self Inductance (lead length=2mm)	Lead spacing 10 mm:	L = 9 nH			
	Lead spacing 15 mm:	L = 10 nH			
	Lead spacing 22.5mm:	L = 18 nH			
	Lead spacing 27.5mm:	L = 18 nH			
	Lead spacing 31.5mm:	L = 20 nH			
<b>Environmental Test Data</b>					
Test	IEC Publication	Procedure			
Endurance	IEC 60384-17	1.25*Un, 1000 hours at 100°C $\pm 2^\circ C$			
Change of temperature	IEC 60068-2-14 Test Eb	+105°C and -40°C 5 cycles			
Damp heat steady state	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days			

## 外形图 APPEARANCE



# CBB22 金属化聚丙烯电容器

Metalized polypropylene film capacitor

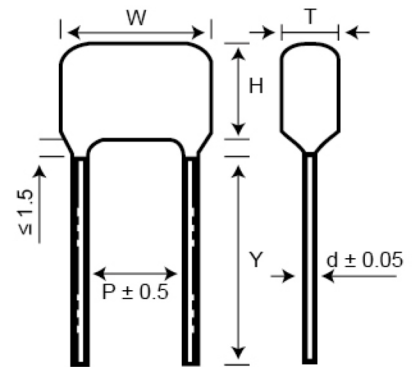
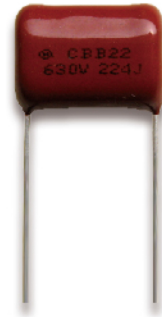
## 特点与用途 FEATURES & APPLICATION

- 金属化聚丙烯膜
- 优良自愈能力
- 高频损耗小
- 阻燃环氧包封 (UL94-v0)
- 广泛使用中高频, 直流, 交流, 脉冲 和降压电路
- 显示器S校正线路, 阻容降压, 分压线路
- Metallized polypropylene film.
- Excellent self-healing properties.
- Low loss at high frequency.
- Flame resistant epoxy resin power coating (UL94-V0).
- Widely used in high frequency, DC, AC, pulse and step-down circuit.
- Display S correction circuit, a resistance capacitance step-down, dividing line.

## 技术参数 TECHNICAL PARAMETER

产品类别 Products Category	CBB - DC Series				
引用标准 Reference Standard	GB/T14472 (IEC 60384-17)				
气候类型 Climatic Category	40/85/21 IEC 60068-1				
	Average relative humidity≤75%				
	RH=95% for 21 days per year RH=85% for further days limited by average value per year				
温度范围 Operating temperature range	-40 ~ +105 °C				
最高温度 Rated temperature $T_R$	+105°C				
降压曲线 Voltage Derating	Above +95°C DC and AC voltage derating is 5% /°C				
额定电压 Rated Voltage DC $V_R$	250V	400-420V	520V	630V	1000V
额定电压 Rated Voltage AC $V_R$	110V	160-220V	250V	275V	300V
容量范围 Capacitance range $\mu F$	0.22-10	0.01-4.7	0.01-3.3	0.01-2.2	0.01-1.0
容量偏差 Capacitance Tolerance	$\pm 2\%$ (G), $\pm 3\%$ (H), $\pm 5\%$ (J), $\pm 10\%$ (K)				
耐电压 Voltage Proof	极间耐压 Between Terminals		1.6Un (2S)		
	极壳耐压 Between Terminals To Case		2.0Un (5S)		
绝缘电阻 Insulation Resistance	$\geq 15000M\Omega$ (CR $\leq 0.33\mu F$ )		25°C, 1min		
	$\geq 5000s$ (CR $> 0.33\mu F$ )				
损耗角正切 Dissipation factor	Cr < 1 $\mu F$ : DF $\leq 1.0\%$ (10KHZ 25 $\pm 5^\circ C$ )				
	Cr $\geq 1\mu F$ : DF $\leq 1.3\%$ (10KHZ 25 $\pm 5^\circ C$ )				
等效串联电感 Self Inductance (lead length~2mm)	Lead spacing 10 mm:		L = 10 n H		
	Lead spacing 15 mm:		L = 11 n H		
	Lead spacing 22.5mm:		L = 20 n H		
	Lead spacing 27.5mm:		L = 20 n H		
	Lead spacing 31.5mm:		L = 21 n H		
Environmental Test Data					
Test	IEC Publication		Procedure		
Endurance	IEC 60384-17		1.25*Un , 500 hours at 85 °C $\pm 2^\circ C$		
Change of temperature	IEC 60068-2-14 Test Eb		+105°C and -40°C 5 cycles		
Damp heat steady state	IEC 60068-2-78 Test Cab		+40°C and 93% RH ,56 days		

## 外形图 APPEARANCE



# CBB28 节能灯电子镇流器电容器

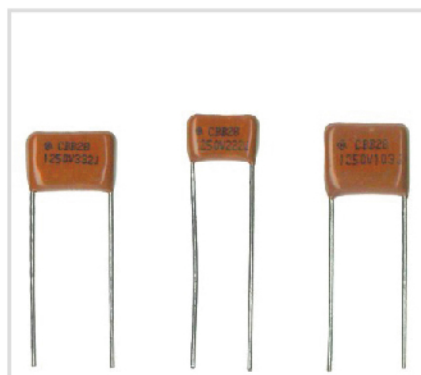
Type Thrift Energy Light Electronic Ballast Capacitor

## 特点与用途 FEATURES & APPLICATION

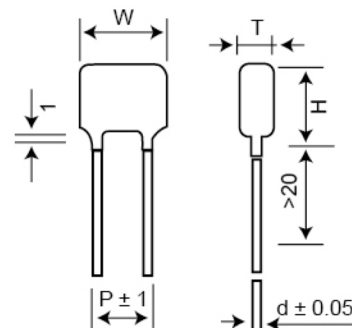
- 金属化聚丙烯作介质，无感式卷绕。
- 耐脉冲性能好、耐高温、低损耗、高绝缘、能承受较高电压和大电流冲击，并有自愈性。
- 适用于一体化节能灯、电子镇流器及其它电子仪器的交直流和脉冲电路中。
- Impulse resistance, high temperature resistance.
- low loss, excellent insulation resistance and can bear high voltage&large current impulse along with self-healing property.
- Used in integrative energy saving lamps, Electronic ballast and other AC, DC or pulse circuits.

## 电性能 SPECIFICATION

环境温度 Operating temperature range	-40°C~+105°C
试验电压 Testing voltage	2倍额定电压Rated Voltage x 200%
电容量偏差等级 Capacitance tolerance	±5%(J), ±10%(K), ±20%(M)
损耗角正切值 Dissipation factor	≤0.001(10KHZ)
绝缘电阻 Insulation resistance	≥ 30000MΩ At500V



## 外形图 APPEARANCE



标称容量 (μF)	630V					1000V					1250V				
	W max	H max	T max	d	p	W max	H max	T max	d	p	W max	H max	T max	d	p
0.001	13.5	7.5	5	0.6	10	13.5	7.5	5	0.6	10	13.5	7.5	5	0.6	10
0.0022	13.5	7.5	5	0.6	10	13.5	7.5	5	0.6	10	13.5	7.5	5	0.6	10
0.0033	13.5	7.5	5	0.6	10	13.5	7.5	5	0.6	10	13.5	8.5	5.5	0.6	10
0.0047	13.5	7.5	5	0.6	10	13.5	8.5	5.5	0.6	10	13.5	9	6.5	0.6	10
0.0056	13.5	7.5	5	0.6	10	13.5	8.5	6	0.6	10	13.5	10.5	7	0.6	10
0.0068	13.5	8	5	0.6	10	13.5	10.5	6.5	0.6	10	13.5	10.5	7.5	0.6	10
0.0075	13.5	8.5	6	0.6	10	13.5	11	6.5	0.6	10	13.5	11	7.5	0.8	10
0.0082	13.5	8.5	6	0.6	10	13.5	11	7	0.6	10	13.5	11	7.5	0.8	10
0.01	13.5	9	6	0.6	10	13.5	12	8	0.6	10	13.5	12	5.5	0.8	15
0.015	13.5	10.5	7	0.6	10	18.5	12	5.5	0.6	13.5	18.5	13	6.5	0.8	15
0.022	18.5	12	6	0.6	15	18.5	13	6.5	0.6	18.5	18.5	14	7.5	0.8	15
0.033	18.5	12	6.5	0.6	15	18.5	14	8	0.6	18.5	18.5	15.5	9.5	0.8	15
0.047	18.5	13	7.5	0.6	15	18.5	15.5	9	0.8	18.5	-	-	-	-	-
0.056	18.5	15.5	9	0.8	15	18.5	16.5	10.5	0.8	18.5	-	-	-	-	-
0.068	18.5	16.5	10	0.8	15	-	-	-	-	-	-	-	-	-	-

# CBB83-B 金属化聚丙烯盒式电容器

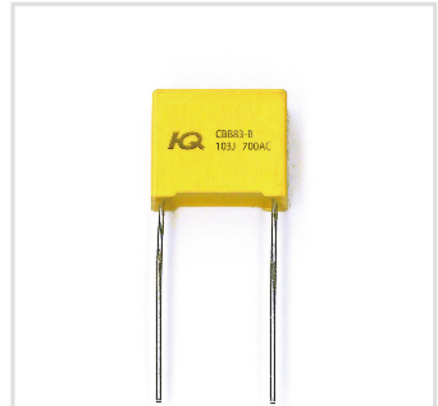
Metalized polypropylene film capacitor (Box-type)

## 特点与用途 FEATURES & APPLICATION

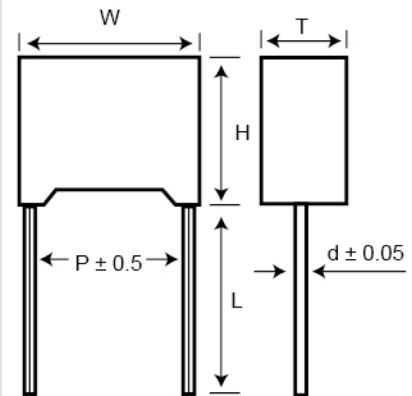
- 金属化聚丙烯膜，多串
- 优异的自愈性能和脉冲性能
- 高频损耗小，内部温升小于5°C
- 优良的阻燃性能（UL94-v0）
- 高压、大电流的脉冲和高频交流负载线路
- 高端电子整流器，HID，电表系列
- Metallized polypropylene film.
- Excellent self-healing properties.
- Low loss at high frequency, inherent temperature rise max 5°C.
- Excellent active and passive flame resistant abilities (UL94-V0).
- Applied to high voltage, lager current pulse and high frequency AC load circuit.
- High-end electronic rectifier, HID, ammeter series.

## 技术参数 TECHNICAL PARAMETER

产品类别 Products Category	CBB - AC Series		
引用标准 Reference Standard	GB/T14472 (IEC 60384-17)		
气候类型 Climatic Category	40/125/56 ,40/105/56		
	Average relative humidity≤75%		
	RH=95% for 30 days per year RH=85% for further days limited by average value per year		
温度范围 Operating temperature range	-40 ~ +125 °C		
最高温度 Rated temperature $T_R$	+85°C		
降压曲线 Voltage Derating	Above +85°C DC and AC voltage derating is 1.25%/°C		
额定电压 Rated Voltage DC $V_R$	800V	1200V	2000V
额定电压 Rated Voltage AC $V_R$	500V	700V	900V
容量范围 Capacitance range $\mu F$	0.001-1.0	0.00022-0.33	0.00022-0.1
容量偏差 Capacitance Tolerance	$\pm 2\%$ (G), $\pm 3\%$ (H), $\pm 5\%$ (J), $\pm 10\%$ (K)		
耐电压 Voltage Proof	极间耐压 Between Terminals	1.75Un (2S)	
	极壳耐压 Between Terminals To Case	2.5Un (5S)	
绝缘电阻 Insulation Resistance	$\geq 30000M\Omega$ (CR $\leq 0.33\mu F$ )	25°C, 1min	
	$\geq 7500s$ (CR $> 0.33\mu F$ )		
损耗角正切 Dissipation factor	DF $\leq 0.08\%$ (10KHZ 25 $\pm 5^\circ C$ )		
	DF $\leq 0.25\%$ (100KHZ 25 $\pm 5^\circ C$ )		
等效串联电感 Self Inductance (lead length~2mm)	Lead spacing 10 mm:	L = 9 nH	
	Lead spacing 15 mm:	L = 10 nH	
	Lead spacing 22.5mm:	L = 18 nH	
	Lead spacing 27.5mm:	L = 18 nH	
	Lead spacing 31.5mm:	L = 20 nH	
<b>Environmental Test Data</b>			
Test	IEC Publication	Procedure	
Endurance	IEC 60384-17	1.25*Un , 1000 hours at 105°C $\pm 2^\circ C$	
Change of temperature	IEC 60068-2-14 Test Eb	+105°C and -40°C 5 cycles	
Damp heat steady state	IEC 60068-2-78 Test Cab	+40°C and 93% RH ,56 days	



## 外形图 APPEARANCE



产品尺寸表 SIZE TABLE

500AC								
容量 (μF)	电压 voltage		外壳尺寸 CASE SIZE (mm)			间距 (mm)	d	DV/DT
	DC	AC	Width	Height	Depth	Pitch(±0.5)	±0.05mm	V/us
0.001	1600	500	13	9	4	10	0.6	6000
0.0015	1600	500	13	11	5	10	0.6	6000
0.0022	1600	500	13	12	6	10	0.6	6000
0.0033	1600	500	18	11	5	15	0.6	4000
0.0047	1600	500	18	11	5	15	0.6	4000
0.0068	1600	500	18	11	5	15	0.6	4000
0.01	1600	500	18	12	6	15	0.6	4000
0.015	1600	500	18	13.5	7.5	15	0.6	4000
0.022	1600	500	18	16	10	15	0.8	4000
0.033	1600	500	18	19	11	15	0.8	4000
0.047	1600	500	26.5	19	10	22.5	0.8	2000
0.068	1600	500	26.5	22	11	22.5	0.8	2000
0.082	1600	500	26.5	23	12	22.5	0.8	1800
0.1	1600	500	26.5	23	13	22.5	0.8	1800
0.22	1600	500	32	20	11	27.5	0.8	500
0.33	1600	500	32	28	14	27.5	0.8	500
0.47	1600	500	32	28	14	27.5	0.8	500
0.68	1600	500	32	33	18	27.5	0.8	500
0.82	1600	500	32	37	22	27.5	0.8	500
1.0	1600	500	32	37	22	27.5	0.8	500

700AC								
容量 (μF)	电压 voltage		外壳尺寸 CASE SIZE (mm)			间距 (mm)	d	DV/DT
	DC	AC	Width	Height	Depth	Pitch(±0.5)	±0.05mm	V/us
0.00022	2000	700	13	9	4	10	0.6	10000
0.00033	2000	700	13	9	4	10	0.6	10000
0.00047	2000	700	13	9	4	10	0.6	10000
0.00068	2000	700	13	9	4	10	0.6	10000
0.001	2000	700	13	9	4	10	0.6	10000
0.0015	2000	700	13	11	5	10	0.6	10000
0.0022	2000	700	13	12	6	10	0.6	10000
0.0033	2000	700	18	11	5	15	0.6	9000
0.0047	2000	700	18	12	6	15	0.6	9000
0.0068	2000	700	18	13.5	7.5	15	0.6	9000
0.01	2000	700	18	14.5	8.5	15	0.8	9000
0.015	2000	700	18	16	10	15	0.8	9000
0.022	2000	700	26.5	17	8.5	22.5	0.8	4500
0.033	2000	700	26.5	19	10	22.5	0.8	4500
0.047	2000	700	26.5	21	11	22.5	0.8	4500
0.068	2000	700	26.5	23	12	22.5	0.8	4500
0.082	2000	700	26.5	23	13	22.5	0.8	4500
0.1	2000	700	32	23	13	27.5	0.8	800
0.15	2000	700	32	28	14	27.5	0.8	400
0.22	2000	700	32	33	18	27.5	0.8	400
0.33	2000	700	32	37	22	27.5	0.8	400

900AC								
容量 (μF)	电压 voltage		外壳尺寸 CASE SIZE (mm)			间距 (mm)	d	DV/DT
	DC	AC	Width	Height	Depth	Pitch(±0.5)	±0.05mm	V/us
0.00022	2500	900	18	12	6	10	0.6	10000
0.00033	2500	900	18	13.5	7.5	10	0.6	10000
0.00047	2500	900	18	14.5	8.5	10	0.6	10000
0.00068	2500	900	18	14.5	8.5	10	0.6	10000
0.001	2500	900	26.5	15	6	10	0.6	10000
0.0015	2500	900	26.5	15	6	10	0.6	10000
0.0022	2500	900	26.5	15	6	10	0.6	10000
0.0033	2500	900	26.5	15	6	15	0.6	9000
0.0047	2500	900	26.5	15	6	15	0.6	9000
0.0068	2500	900	26.5	15	6	15	0.6	9000
0.01	2500	900	26.5	16	7	15	0.8	9000
0.015	2500	900	26.5	19	10	15	0.8	9000
0.022	2500	900	26.5	22	11	22.5	0.8	4500
0.033	2500	900	32	22	11	22.5	0.8	4500
0.047	2500	900	32	23	13	22.5	0.8	4500
0.068	2500	900	32	28	14	22.5	0.8	4500
0.082	2500	900	26.5	23	13	22.5	0.8	4500
0.1	2500	900	32	23	13	27.5	0.8	800

# CBB81 金属化聚丙烯交流和脉冲电容器

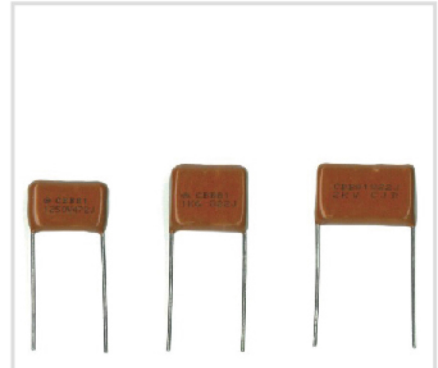
Type Metallized polypropylene

## 特点与用途 FEATURES & APPLICATION

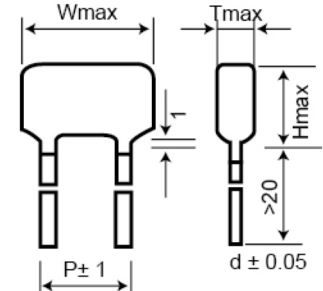
- 铝箔和金属化聚丙烯膜串式结构。
- 能承受高脉冲。
- 能承受高电流和高的dv/dt。
- 有自愈性。
- 适用于电子镇流器和电源开关等高频振荡电路中。
- Aluminum foil and metal polypropylene film series structure.
- High pulse resistance.
- Large current and high dv/dt resistance.
- Self-healing.
- Applied to electronic ballast and power switch etc. High frequency oscillating circuit.

## 电性能 SPECIFICATION

使用温度范围 Operating Temp	-40°C~+105°C
试验电压 Withstand Voltage	2倍额定电压Rated Voltage x 200%
电容量误差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)
损耗因素 Dissipation Factor	C ≤ 0.1 ≤ 5 × 10 <sup>-4</sup> C > 0.1 ≤ 6 × 10 <sup>-4</sup>
绝缘电阻 Insulation Resistance	C ≤ 0.33μF ≥ 30000MΩ C > 0.33μF RC ≥ 10000S



## 外形图 APPEARANCE



## 产品尺寸表 SIZE TABLE

标称容量 Rated capacitance μF	外形尺寸 (mm) Dimensions mm	额定电压 (V) Rated Voltage				
		630V	1000V	1250V	1600V	3000V
0.0001						19X11.5X6.5X15
0.00015						19X11.5X6.5X15
0.00022						19X11.5X6.5X15
0.00033						19X11.5X6.5X15
0.00047						19X11.5X6.5X15
0.00068						19X11.5X6.5X15
0.001						19X11.5X6.5X15
0.0015				19X11.5X6.5X15		19X11.5X6.5X15
0.0022	19X11.5X6X15	19X11.5X6X15	19X12X6X15	19X12X6X15		19X12.5X6.5X15
0.0033	19X11.5X6X15	19X11.5X6X15	19X12.5X7X15	19X13.5X8X15		19X15X8.5X15
0.0047	19X11.5X6X15	19X12X7X15	19X13X7.5X15	19X15.5X9.5X15		19X17.5X12.5X15
0.0068	19X11.5X6X15	19X13X8X15	19X14.5X8.5X15	19X16X10.5X15		27.5X17.5X10.5X22.5
0.01	19X13X7.5X15	19X15X10X15	19X16X10X15	19X17.5X12.5X15		27.5X20.5X13X22.5
0.015	19X13X7.5X15	19X17X11X15	19X16.5X12X15	27.5X17.5X9.5X22.5		27.5X22.5X15.5X22.5
0.022	19X12X7X15	27.5X17X8X22.5	27.5X17.5X10X22.5	27.5X19.5X11.5X22.5		32.5X25X15X27.5
0.033	19X13.5X8X15	27.5X18X10X22.5	27.5X19.5X12X22.5	27.5X22.5X15.5X22.5		
0.047	19X15.5X9.5X15	27.5X19X12X22.5	27.5X21X14X22.5	32.5X22.5X14X27.5		
0.068	19X17X12X15	27.5X21X13X27.5	32.5X23X13X27.5	32.5X22.5X16X27.5		
0.01	27.5X17.5X9.5X22.5	32.5X23X15.3X27.5	32.5X26X16X27.5			
0.15	27.5X19.5X11.5X22.5	32.5X27.5X20X27.5				
0.22	32.5X22.5X13.5X27.5					
0.33	32.5X25.5X16X27.5					

注：特殊要求可按技术协议供货。 Note: We can offer your specific demand by technology treaty.