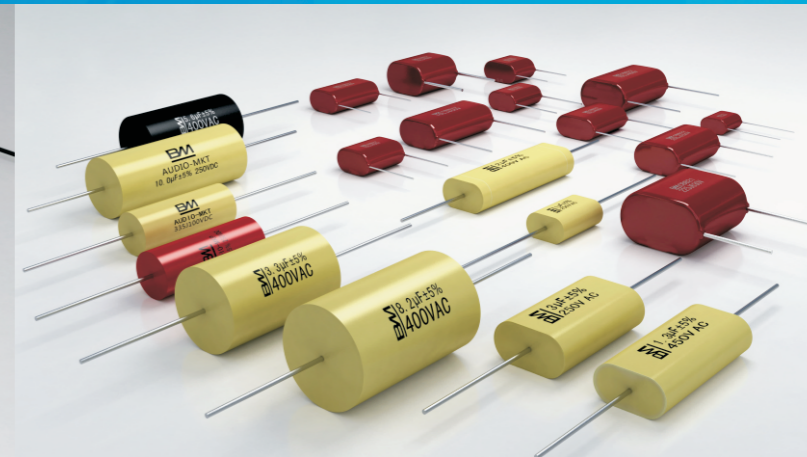
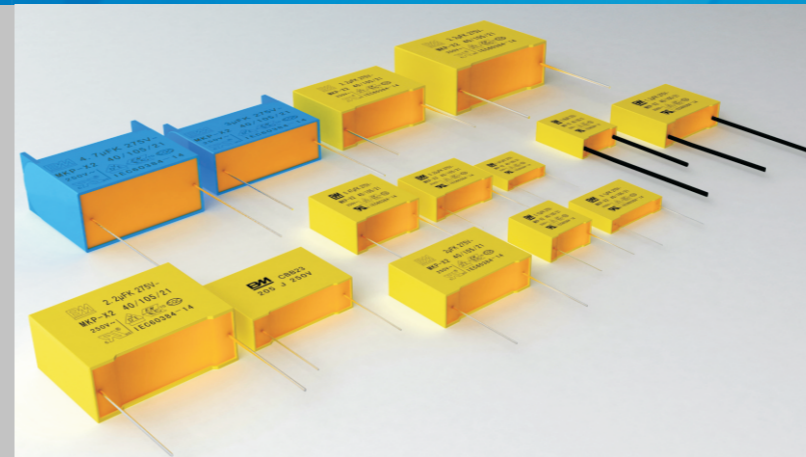


# CAPACITOR CATALOG 丰明电容 2015

安规包封分册  
X2/CBB21

为成功的企业配套。为企业的成功配套  
To support a successful enterprise  
To support the success of an enterprise



广东丰明电子科技有限公司  
GUANGDONG FENGMING ELECTRONIC TECH. CO., LTD.

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## 公司简介(一) | INTRODUCTION I

广东丰明电子科技有限公司，始创于2000年，占地2.5万平方米，拥有3万平米高标准厂房，日产186万只金属化薄膜电容器。

丰明电子分设三大研究中心及九大产品事业部，从事多类薄膜电容器及金属化薄膜的应用研究、开发、设计、制造与销售。

As the leading MPP capacitor manufacturer in China, BM has been specialized in the development, manufacturing and sales of capacitor for decades.

BM capacitors are widely used in appliance, lighting, industrial equipment, solar, inverter, UPS etc. With stable quality and superior service, BM has been the long-term partner of world-wide customers.

BM has acquired certificates of ISO, CQC, VDE, UL, KC etc which could fulfill customers' versatile requirements.

For more info, please get on [www.bm-cap.com](http://www.bm-cap.com)

BM always assures you the best service.



三大研究中心 Three Research Centers



产品开发中心



工艺研究中心



实验检测中心

九大产品事业部 Nine Departments



交流电容器  
事业部



空调电容器  
事业部



60/65电容器  
事业部



针式电容器  
事业部



安规电容器  
事业部



包封电容器  
事业部



工业电容器  
事业部



微波炉  
电容器  
事业部



真空镀膜  
事业部

未来要成立 Future Development



风电  
事业部



光伏  
事业部



轨道交通  
事业部



新能源汽车  
事业部



广东省著名商标  
Famous mark in  
Guangdong Province



广东省名牌产品  
Famous-brand products  
in Guangdong Province



高新技术企业  
High-tech Enterprises



顺德区质量信用A级企业  
Quality Credit A Class Enterprises  
in Shunde Area



广东省著名商标  
Famous mark in Guangdong Province



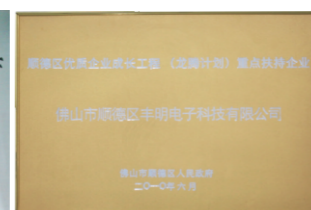
广东省名牌产品  
Famous-brand products  
in Guangdong Province



广东省民营科技企业  
Private Science and Technology  
Enterprises in Guangdong Province



广东欧博企业管理研究所  
工匠型企业  
实验基地  
Craftsman Enterprises Laboratory  
Base for OuBo Enterprises  
management Research  
Institute in Guangdong Province



顺德区龙腾企业  
LQ Enterprises in Shunde Area



顺德区感应加热专用电容器  
工程技术研究开发中心  
Induction Heating Capacitor  
Engineering R&D Center  
in Shunde Area



产品开发中心 R&D Center



工艺研究中心 Technology Research Center



实验检测中心 Testing Center

专利清单 Patent List :

实用新型专利 Utility model patent

申请人	申请号	授权日期	名称
1. 广东丰明电子科技有限公司	200720050835.3	2008-03-12	一种新型电容器绝缘塑料外壳
2. 广东丰明电子科技有限公司	200920056248.4	2010-02-17	一种薄膜分切机的收卷轴
3. 广东丰明电子科技有限公司	200920056247.X	2010-02-17	一种电容器芯子包裹器
4. 广东丰明电子科技有限公司	200920056249.9	2010-02-17	一种电容器外壳
5. 广东丰明电子科技有限公司	200920058449.8	2010-05-26	一种电容器的自动包胶机
6. 广东丰明电子科技有限公司	200920058450.0	2010-05-05	一种安全型金属化薄膜电容器
7. 广东丰明电子科技有限公司	201020119520.1	2010-02-09	一种安规电容器的外壳
8. 广东丰明电子科技有限公司	201020505949.4	2011-04-27	一种新型电容器外壳
9. 广东丰明电子科技有限公司	201020538715.X	2011-03-16	一种用于直流滤波电容器的外壳
10. 广东丰明电子科技有限公司	201020572625.2	2011-04-27	一种用于外接引线的电容器
11. 广东丰明电子科技有限公司	201020613387.5	2011-06-15	一种用于感应加热的模块式电容器
12. 广东丰明电子科技有限公司	201020627485.4	2011-06-29	一种具有安全防爆的电容器
13. 广东丰明电子科技有限公司	201120109690.6	2011-10-05	一种新型微波炉用干式结构电容器
14. 广东丰明电子科技有限公司	201120136554.6	2011-12-14	一种用于直流滤波的中心散热式电容器
15. 广东丰明电子科技有限公司	201120562909.8	2012-08-15	用于感应加热的外置型电容器
16. 广东丰明电子科技有限公司	201320346909.3	2013-11-13	一种中心加强散热式电容器
17. 广东丰明电子科技有限公司	201320375209.7	2013-11-13	一种全塑封式端子引出型电容器

外观专利 Appearance patent

申请人	申请号	授权日期	名称
1. 广东丰明电子科技有限公司	201030569113.6	2011-02-09	电容器 (CBB61)

丰明电子全面执行ISO9001及ISO14001国际质量与环境体系标准。  
Complied with ISO9001 and ISO14001 International quality and environment standard.

ISO9001及ISO14001国际质量与环境体系标准



ROHS



使用说明 Instruction \_\_\_\_\_ VII-IX

MKP | 安规经济型 X2 miniature series \_\_\_\_\_ 01-04

MKP | 安规标准型 X2 standard series \_\_\_\_\_ 05-14

MKPR | 安规电阻并联 RC series \_\_\_\_\_ 15-16

MKP+R | 安规电阻串联 RC series \_\_\_\_\_ 17-18

MMKP | 安规盒装高压 MKP81 series \_\_\_\_\_ 19-22

MPP | 包封 CBB21 series 250/400/630VDC \_\_\_\_\_ 23-30

MPP | 包封 CBB21 series 250VAC \_\_\_\_\_ 31-32

MPHL | 高压小型化 CBB81 miniature series \_\_\_\_\_ 33-38

MPH | 高压 CBB81 standard series \_\_\_\_\_ 39-42

MPT | 包胶圆 CBB20 series \_\_\_\_\_ 43-49

MPA | 包胶扁 CBB20 series \_\_\_\_\_ 50-56

### 一、电子设备用薄膜电容器的标准体系

电子设备用固定电容器的标准体系是由基础标准、总规范、分规范、空白详细规范以及详细（即企业标准）组成。总规范规定了分规范和详细规范中使用的标准术语、检验程序和实验方法。分规范是按电容器的介质和结构分类的，它是对该类电容器规定优先额定值和特性，并从总规范中选择适当的质量评定程序、实验和测量方法，以及给出一般性能要求。空白详细规范是分规范的一种补充文件，它规定了详细规范的格式、编排和最基础的要求。

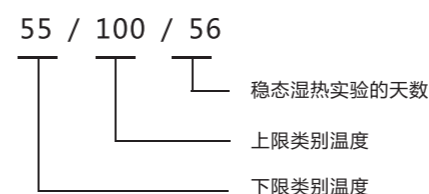
The standard system of fixed plastic film capacitor for use in electronic equipment includes the foundational standard, generic specification, sectional specification, blank detail specification and detail specification, or manufacture specification. Generic specification specifies the terminology, inspection procedures and test methods applied in sectional and detail specifications. Sectional specification is classified according to the specific dielectrics material and construction of capacitor, it prescribes preferred rating and characteristics and to select from generic specification the appropriate quality assessment procedures, tests and measuring methods and to give general performance requirements for this type of capacitor. Blank detail specification is a supplementary document to the sectional specifications and contains requirements for style layout and minimum contents of detail specifications.

薄膜电容器的标准体系，举例如下 Following please find the corresponding specification lists for plastic film capacitors.

标准号 ( NO. )	标准 ( Standards )
<b>GB 10190</b> <b>(IEC 60384-16)</b>	第16部分：分规范：金属化聚丙烯膜介质直流固定电容器 Part 16 :Sectional specification: Fixed <b>metalized</b> polypropylene film <b>D.C. capacitor</b>
<b>GB 10191</b> <b>(IEC 60384-16-1)</b>	第17部分：分规范：金属化聚丙烯膜介质交流和脉冲固定电容器 Part 17 : Sectional specification: Fixed <b>metalized</b> polypropylene film A.C. and pulse capacitor
<b>GB/T 14579</b> <b>(IEC 60384-17)</b>	第16部分：空白详细规范：金属化聚丙烯膜介质直流固定电容器 Part 16 :Blank detail specification: Fixed <b>metalized</b> polypropylene film <b>D.C. capacitor</b>
<b>GB/T 14579</b> <b>(IEC 60384-17-1)</b>	第17部分：空白详细规范：金属化聚丙烯膜介质交流和脉冲固定电容器 Part17:Blank detail specification: Fixed <b>metalized</b> polypropylene film A.C. and pulse capacitor

### 三、标准术语

1. 上限类别温度  
电容器设计所确定的能连续工作的最高环境温度
2. 下限类别温度  
电容器设计所确定的能连续工作的最低环境温度
3. 额定温度  
可以连续施加额定电压的最高环境温度
4. 额定电压  
在下限类别温度和额定温度之间的任一温度下，可以连续施加在在电容器上的最大直流电压或脉冲电压的峰值
5. 类别电压  
电容器在上限类别温度下可以连续施加在电容器上的最高电压
6. 温度降额电压  
温度降额电压是在额定温度和上限类别温度之间的任一温度下，可以连续施加在电容器上的最高
7. 气候类别  
电容器所属的气候类别用斜线分隔的三个数来表示 ( IEC6068-1 : 如55/100/56 )



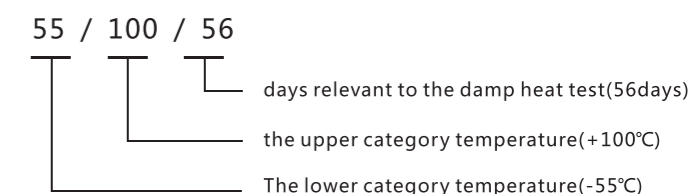
8. 损耗角正切  
在规定频率的正弦波电压作用下，电容器的损耗功率除以电容量的无功功率
9. 绝缘电阻 ( I.R ) / 时间常数 ( t )  
绝缘电阻为电容器充电一分钟后的直流电压和流经电容器的漏电流值，单位为MΩ。时间常数为绝缘电阻和电容器的乘积，通常以秒表示，公式如下：

$$\tau[s] = I.R[M\Omega] \times CN[\mu F]$$

一般情况下，绝缘电阻用于描述小容量电容器的绝缘电阻特性，时间常数用于描述大容量（如CN > 0.33μF）电容器的绝缘特性。

### Terminologies

1. Upper Category Temperature  
The highest environmental determined by capacitors design and in which capacitor may continuously work
2. Lower Category Temperature  
The lowest environmental temperature determined by capacitor design and in which capacitor may continuously work
3. Rated Temperature  
The highest environmental temperature in which capacitor applied continuously with the rated voltage
4. Rate voltage  
The maximum D.C voltage or peak value of pulse voltage that can be applied continuously to capacitor at any temperature between lower category temperature and rated temperature
5. Category Voltage  
The maximum voltage that can be applied continuously to capacitor at upper category temperature
6. Temperature Derated Voltage  
The maximum voltage that can be applied continuously to capacitor at any temperature between rated temperature and Upper category temperature
7. Climatic Category  
The climatic category which the capacitor belongs to is expressed in three numbers separated by slashes, ( IEC6068-1 : example 55/100/56).



8. Dissipation factor  
The dissipation factor is ratio between reactive power of the impedance of the capacitor and effective power when capacitor is submitted a sinusoidal voltage of specified frequency.
9. Insulation Resistance(I.R)Time Constant(t)  
The insulation resistance is the ratio between an applied D.C voltage and the resulting leakage current after a minute of charge.It is expressed in MΩ.The time constant is expressed in seconds with the following formula:

$$\tau[s] = I.R[M\Omega] \times CN[\mu F]$$

In general, insulation resistance is used for describing smaller capacitance capacitors' insulation character, Time constant for describing larger one's (example: CN > 0.33μF) .

典型特性、应用、以及特性曲线

Typical Properties, Applications and Typica graphs

1 聚丙烯薄膜特性

1. Polypropylene Film

- 损耗极低
- 介质吸收系数低
- 绝缘电阻高
- 频率特性好
- 自愈特性好
- 稳定性很好

- Very low dissipation factor
- Very low dielectric absorption
- Very high insulation resistance
- Good behaviour in frequency
- Excellent self-healing properties
- Very good stability

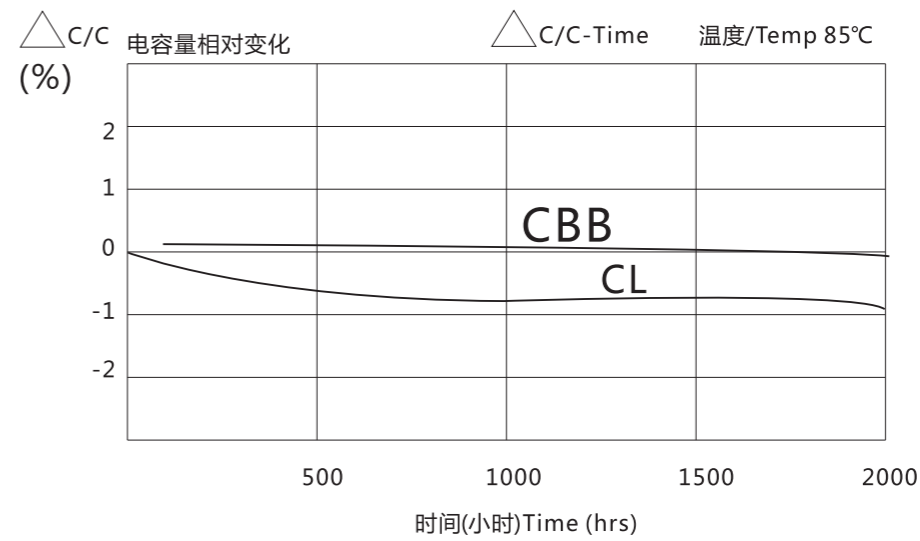
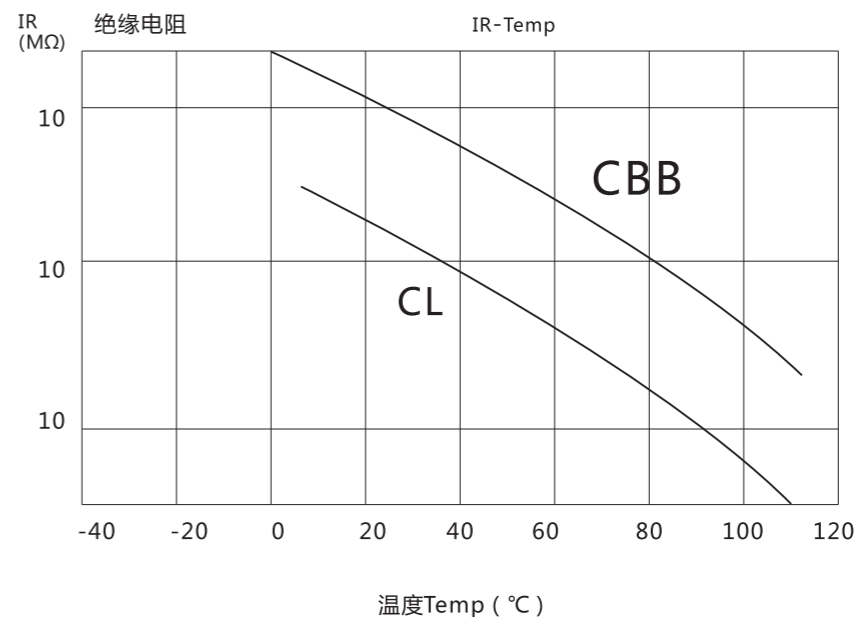
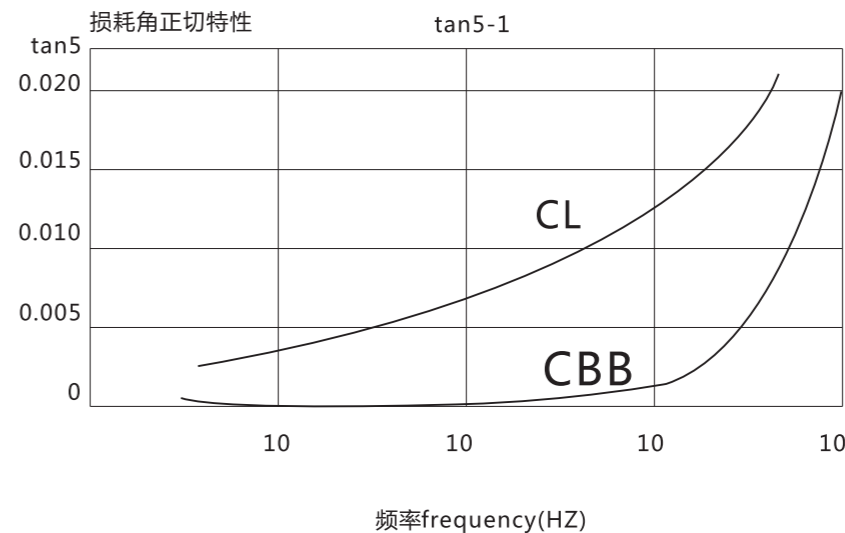
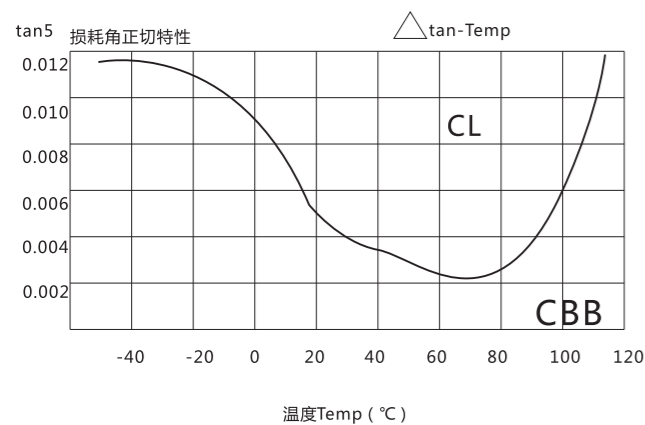
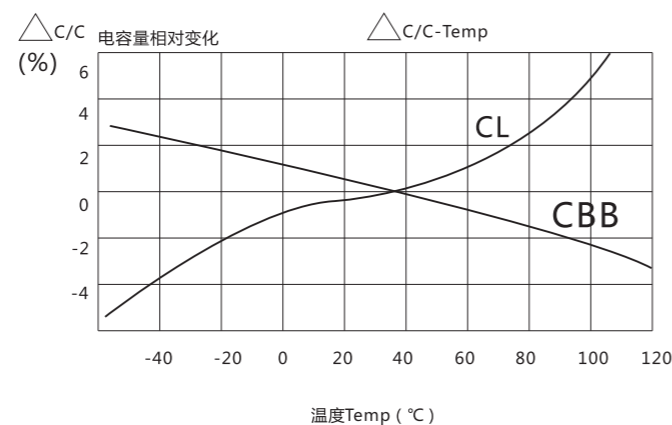
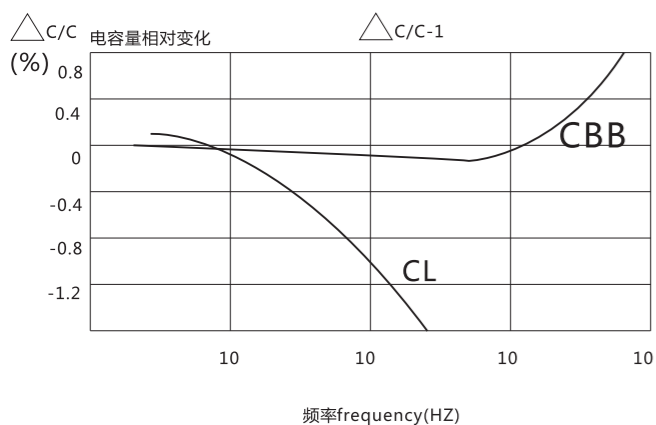
2 典型应用

2. Typical Applications

- 高频脉冲应用
- 大电流场合
- 交流场合
- 高稳定的定时场合
- 开关电源系统和彩电行业
- 照明行业
- 工控行业
- 高Q滤波

- High frequency, pulse applications
- High current
- A.C. applications
- Timing with high stability
- SMPS and TV set
- lighting
- Industrial
- Filtering high Q

3 特性曲线 Typical graphs



CBB-----聚丙烯薄膜 ( Polypropylene Film )  
 CL-----聚酯薄膜 ( Polyester Film )

产品编码说明 Part number system

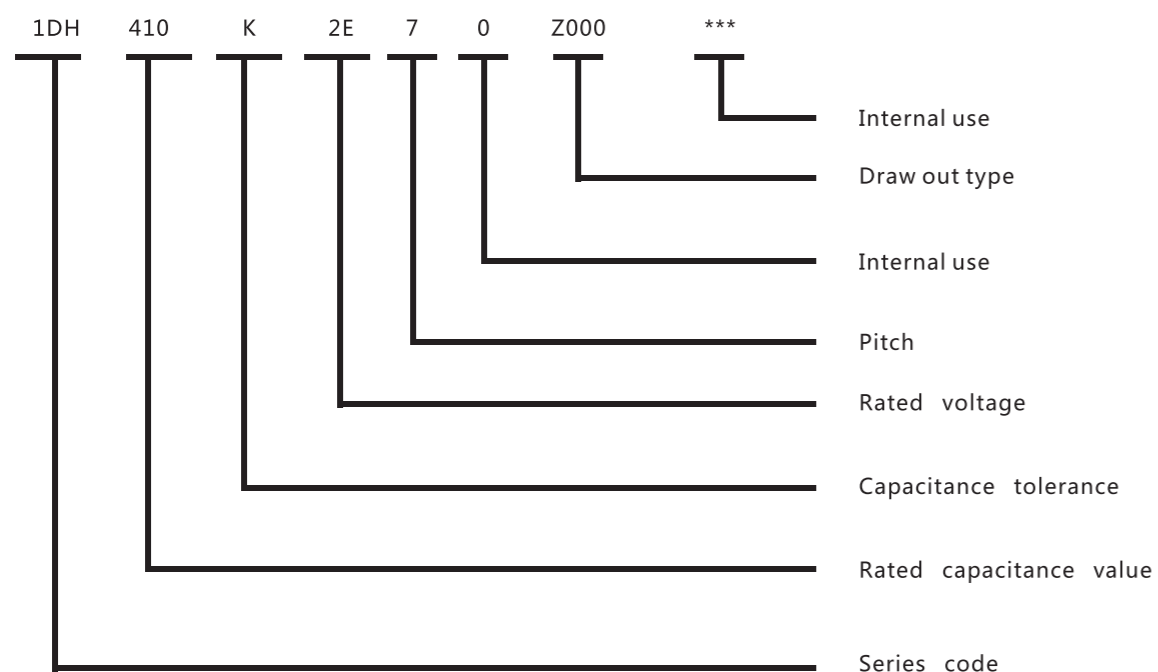
18位产品代码如下：

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----

第1~3位 型号代码	Digit 1 to 3	Series code
第4~6位 标称容量 410=10×10 <sup>4</sup> pF=0.1μF	Digit 4 to 6	Rated capacitance value 410=10×10 <sup>4</sup> pF=0.1μF
第7位 容量偏差 J=±5% K=±10% M=±20%	Digit 7	Capacitance tolerance J=±5% K=±10% M=±20%
第8~9位 额定电压 (参照表2)	Digit 8 to 9	Rated voltage(refer to table 2)
第10位 引线脚距 (参照表3)	Digit 10	Pitch(refer to table 3)
第11位 内部特征码	Digit 11	Internal use
第12~15位 引出类型 (参照表4)	Digit 12 to 15	Draw out type ( refer to table 4 )
第16~18位 内部特征码	Digit 16 to 18	Internal use

举例



1 型号代码对照

代码code	型号type	代码code	型号type
MPP	CBB21	MKP	X2
MPH	CBB81	MKPR	Rc ( 并联 )
MPLH	CBB81 ( 小型化 )	MKP+R	Rc ( 串联 )
MPT	CBB20(圆)	MMKP	MKP81
MPA	CBB20 ( 扁 )		

2 额定电压代码

	A	B	C	D	E	F	G	H	J	K	L	M	N
1			16	20				50	63			1100	
2	100	125	160	200	250	315	400	500	630	800	120		
3	1000	1250	1600	2000	2500	3150	4000	5000	630	8000	1200	1400	
	P	Q	R	S	T	U	V	W	X	Y			
1	240	300	330	440	540	600	700	850	900				
2	275	305	350	450	520	600	700						
3	280	310		480									

说明：字母加数字表示交流，数字加字母表示直流，例如A2表示100VAC,2A表示100VDC

3 脚距代码

代码	0	2	3	5	6	7	8	9	A	B
脚距	轴向	7.5	10	15	17.5	20	21	22	22.5	27
代码	C	D	E	F						
脚距	27.5	31	37	41						

4 引出类型

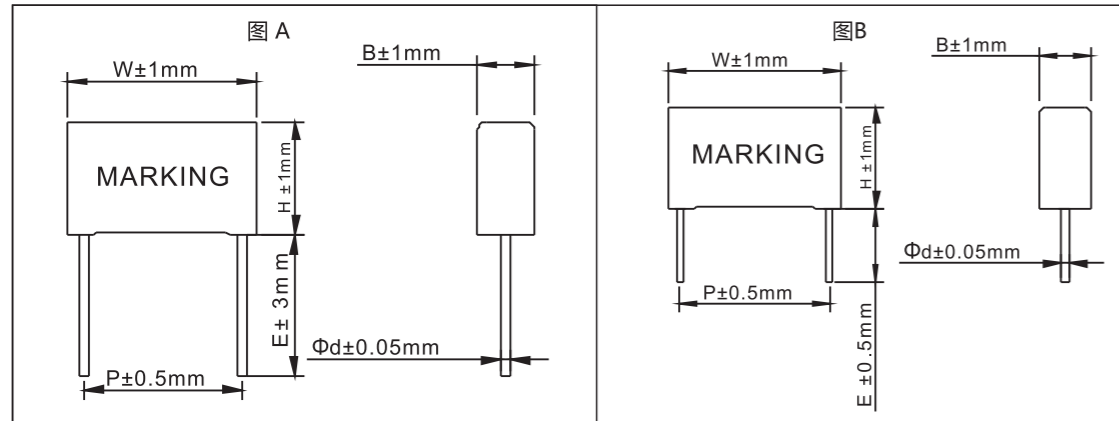
第12位		第13位		第14位		第15位	
代码 Code	说明 Explanation	代码 Code	说明 Explanation	代码 Code	说明 Explanation	代码 Code	说明 Explanation
Y	引线成型	000	标准的引线长度				
		100	引线长度100mm				
Z	引针成型	000	标准的引针长度				
		045	引针长度4.5mm				



### 金属化聚丙烯膜抗干扰电容器 ( X2 )

Metallized polypropylene film Interference Suppression capacitor ( X2 )

#### 外形图 Outline drawing



#### 特点

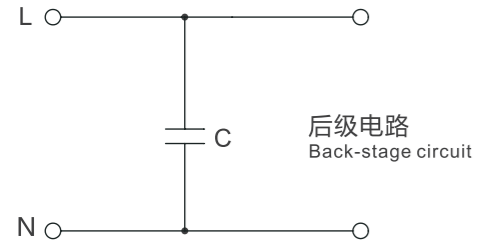
- 金属化聚丙烯膜
- 能承受过压冲击
- 优良的阻燃性能
- 广泛用于电源线路等抗干扰场合

#### Features

- Metallized polypropylene film
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Widely used in across-the-line, interference suppression circuit, etc.

#### 典型线路图

Typical circuit



C: 抗电磁干扰电容  
Interference suppression capacitor

#### 安全认证 Safety Approvals

	VDE NENC	40025702	欧盟
	UL CUL	E345487	美国/加拿大
	CQC	04001010677	中国
	KTL	SU03048-10001A SU03048-10002A SU03048-10003A SU03048-10004A	韩国
CB TSTE CERTIFICATE		0013022	

#### 技术要求 Specifications

电容器类别 Class	X2类	
引用标准 Reference Standard	GB/T 14472-1998 (IEC 60384-14)	
气候类别 Climatic Category	40/105/21	
额定电压 Rated Voltage	275Vac / 310 Vac (50/60Hz)	
电容量范围 Capacitance Range	0.010μF~10μF	
电容量偏差 Capacitance Tolerance	±5% ( J )、±10% ( K )、±20% ( M )	
耐电压 Voltage Proof	引线之间 Between Terminals:	4.3Un VDC / 60sec
	极壳之间 Between Terminals To Case:	2050VAC, 50/60HZ, 60sec
绝缘电阻 Insulation Resistance	≥15000MΩ, Cn≤0.33μF	
	≥5000s, CN>0.33μF (20°C, 100V, 1min)	
损耗角正切 Dissipation Factor	0.01μF≤CR<0.47μF	≤10×10 <sup>-4</sup> ( 1KHz, 20°C )
	0.47μF≤CR≤1 μF	≤20×10 <sup>-4</sup> ( 1KHz, 20°C )
	1 < μFCR≤10 μF	≤30×10 <sup>-4</sup> ( 1KHz, 20°C )

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	0.01	10.5	4	9	7.5	0.6
	0.012	10.5	4	9	7.5	0.6
	0.015	10.5	4	9	7.5	0.6
	0.018	10.5	4	9	7.5	0.6
	0.022	10.5	4	9	7.5	0.6
	0.027	10.5	4	9	7.5	0.6
	0.033	10.5	5	11	7.5	0.6
	0.039	10.5	5	11	7.5	0.6
	0.047	10.5	5	11	7.5	0.6
	0.056	10.5	6	12	7.5	0.6
	0.068	10.5	6	12	7.5	0.6
	0.082	10.5	6	12	7.5	0.6
	0.01	13	5	11	10	0.6
	0.012	13	4	9	10	0.6
	0.015	13	4	9	10	0.6
	0.018	13	5	11	10	0.6
	0.022	13	4	9	10	0.6
	0.1	13	5	11	10	0.6
	0.15	13	6	12	10	0.6
	0.18	13	8	14	10	0.6
	0.2	13	7	13	10	0.6
	0.2	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.33	13	8	16	10	0.6
	0.01	18	5	11	15	0.6
	0.012	18	5	10	15	0.6
	0.015	18	5	10	15	0.6
	0.018	18	5	10	15	0.6
	0.15	18	5	11	15	0.6
	0.2	18	6	12	15	0.6
	0.22	18	6	12	15	0.6
	0.33	18	7.5	13.5	15	0.8

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	0.39	18	7.5	13.5	15	0.8
	0.39	18	7.5	13.5	15	0.8
	0.39	18	6	17.5	15	0.8
	0.47	18	8.5	14.5	15	0.8
	0.47	18	6	17.5	15	0.8
	0.56	18	10	16	15	0.8
	0.68	18	10	16	15	0.8
	0.68	18	9	18	15	0.8
	0.68	18	8.5	17.5	15	0.8
	0.82	18	10	18	15	0.8
	0.82	18	11	19	15	0.8
	1	18	11	19	15	0.8
	0.82	25	8	17.5	20	0.8
	1	25	8.5	17	20	0.8
	0.47	26.5	6	15	22.5	0.8
	0.68	26.5	7	16	22.5	0.8
	0.82	26.5	7	16.5	22.5	0.8
	0.82	26	8	17	22.5	0.8
	1	26.5	8.5	17	22.5	0.8
	1.2	26.5	11	20	22.5	0.8
	1.5	26	11	20	22.5	0.8
	1.5	26.5	10	19	22.5	0.8
	1.8	26	12	21.5	22.5	0.8
	2	26	12	21.5	22.5	0.8
	2.2	26	13	23	22.5	0.8
	3.3	26	15	25	22.5	0.8
	1.2	31	9	18	27.5	0.8
	1.5	31.4	10.8	19.5	27.5	0.8
	1.5	31	9	18	27.5	0.8
	1.8	31	11	20	27.5	0.8
	1.8	31.4	10.8	19.5	27.5	0.8
	2	31	11	20	27.5	0.8

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	2	30	12	20	27.5	0.8
	2	31	10.8	19.5	27.5	0.8
	2.2	30	13	21	27.5	0.8
	2.2	30	11.8	21	27.5	0.8
	2.2	31	11	20	27.5	0.8
	2.5	31.5	13	21.6	27.5	0.8
	3	31.5	13	21.6	27.5	0.8
	3	32	13	25	27.5	0.8
	3.3	31	14	25	27.5	0.8
	3.5	31	14	25	27.5	0.8
	3.9	32	16	25.5	27.5	0.8
	4	32	16	25.5	27.5	0.8
	4.7	32	16	30	27.5	0.8
	4.7	32	17	28	27.5	0.8
	4.7	31	18	26	27.5	0.8
	2.5	36	10.5	21.5	30	1.0
	3	36	13	20	30	1.0
	2.4	36	12	22	32	1.0
	2.6	36	12	22	32	1.0
	3.3	36	13	23	32	1.0
	3.5	36	13	23	32	1.0
	4	36	14.5	25.5	32	1.0
	4	36	22	17	32	1.0
	4.5	36	17	26	32	1.0
	4.7	36	19.5	32	32	1.0
	5	36	25	18	32	1.0
	5	36	17	26	32	1.0
	5	36	13	32	32	1.0
	5.6	36	26	21	32	1.0
	5.6	36	17	26	32	1.0
6	36	26	21	32	1.0	
6	36	17.5	29	32	1.0	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	6	36	26	21	32	1.0
	6.5	36	26	21	32	1.0
	6.5	36	17.5	29	32	1.0
	6.8	36	26	21	32	1.0
	6.8	36	19.5	32	32	1.0
	7	36	30	22	32	1.0
	7	36	19.5	32	32	1.0
	7.5	36	30	22	32	1.0
	7.5	36	19.5	32	32	1.0
	3.3	41.5	13	24	37.5	1.0
	3.9	41.5	13	24	37.5	1.0
	5	41.5	17	30	37.5	1.0
	6.8	41.5	20.5	34	37.5	1.0
	8.2	41.5	22	37	37.5	1.0
	10	41.5	24	36	37.5	1.0

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	0.01	10.5	4	9	7.5	0.6
	0.012	10.5	4	9	7.5	0.6
	0.015	10.5	4	9	7.5	0.6
	0.018	10.5	4	9	7.5	0.6
	0.022	10.5	4	9	7.5	0.6
	0.027	10.5	4	9	7.5	0.6
	0.033	10.5	5	11	7.5	0.6
	0.039	10.5	5	11	7.5	0.6
	0.047	10.5	5	11	7.5	0.6
	0.01	13	6	12	10	0.6
	0.012	13	5	11	10	0.6
	0.015	13	5	11	10	0.6
	0.018	13	5	11	10	0.6
	0.022	13	5	11	10	0.6
	0.027	13	4	9	10	0.6
	0.027	13	5	11	10	0.6
	0.033	13	5	11	10	0.6
	0.033	13	6	12	10	0.6
	0.039	13	4	9	10	0.6
	0.039	13	6	12	10	0.6
	0.039	13	5	11	10	0.6
	0.047	13	4	9	10	0.6
	0.047	13	6	12	10	0.6
	0.047	13	5	11	10	0.6
	0.056	13	6	12	10	0.6
	0.068	13	6	12	10	0.6
	0.068	13	5	11	10	0.6
	0.082	13	5	11	10	0.6
	0.082	13	6	12	10	0.6
	0.1	13	6	12	10	0.6
	0.11	13	6	12	10	0.6
	0.12	13	7	13	10	0.6
	0.12	13	6	12	10	0.6
	0.15	13	7	13	10	0.6
	0.15	13	8	14	10	0.6
	0.18	13	8	14	10	0.6
	0.2	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.01	18	5	11	15	0.6
	0.012	18	5	10	15	0.6
0.015	18	5	10	15	0.6	
0.015	18	5	11	15	0.6	
0.018	18	5	10	15	0.6	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	0.022	18	5	11	15	0.6
	0.022	18	5	10	15	0.6
	0.027	18	5	11	15	0.6
	0.027	18	5	10	15	0.6
	0.033	18	5	11	15	0.6
	0.033	18	5	10	15	0.6
	0.039	18	5	10	15	0.6
	0.039	18	5	11	15	0.6
	0.047	18	5	11	15	0.6
	0.047	18	5	10	15	0.6
	0.047	18	6	12	15	0.6
	0.056	18	5	10	15	0.6
	0.056	18	5	11	15	0.6
	0.068	18	5	10	15	0.6
	0.068	18	5	11	15	0.6
	0.068	18	6	12	15	0.6
	0.082	18	5	10	15	0.6
	0.082	18	5	11	15	0.6
	0.082	18	6	12	15	0.6
	0.1	18	5	10	15	0.6
	0.1	18	5	11	15	0.6
	0.1	18	6	12	15	0.6
	0.11	18	5	11	15	0.6
	0.12	18	5	11	15	0.6
	0.12	18	6	12	15	0.6
	0.15	18	6	12	15	0.6
	0.15	18	7.5	13.5	15	0.6
	0.15	18	8.5	14.5	15	0.6
	0.18	18	6	12	15	0.6
	0.18	18	7.5	13.5	15	0.6
	0.2	18	7.5	13.5	15	0.6
	0.22	18	7.5	13.5	15	0.8
	0.22	18	8.5	14.5	15	0.6
	0.22	18	6.3	13	10	0.6
	0.22	18	8.5	16.5	10	0.6
	0.22	18	7.5	14.5	10	0.6
	0.22	18	6	13.5	15	0.6
	0.27	17.5	9.5	15.5	15	0.6
	0.27	18	8.5	14.5	15	0.6
	0.27	18	7.5	13.5	15	0.6
0.3	18	8.5	14.5	15	0.6	
0.33	18	11	19	15	0.8	
0.33	18	10	18	15	0.8	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	0.33	18	10	15.8	15	0.8
	0.33	18	8.5	14.5	15	0.8
	0.33	18	8.5	16.5	15	0.8
	0.39	18	11	19	15	0.8
	0.39	18	8.5	14.5	15	0.8
	0.39	18	8.5	16.5	15	0.8
	0.47	18	10	16	15	0.8
	0.47	18	9	18	15	0.8
	0.47	18	10	18	15	0.8
	0.47	18	11	19	15	0.8
	0.56	18	10	18	15	0.8
	0.56	18	11	19	15	0.8
	0.68	18	11	19	15	0.8
	0.82	18	11	19	15	0.8
	0.82	25	10	19	20	0.8
	1	25	8.5	17	20	0.8
	1.2	25	10	19	20	0.8
	0.1	26	6	15	22.5	0.8
	0.11	26	6	15	22.5	0.8
	0.12	26	6	15	22.5	0.8
	0.15	26	6	15	22.5	0.8
	0.18	26	6	15	22.5	0.8
	0.2	26.5	6	15	22.5	0.8
	0.22	26	6	15	22.5	0.8
	0.22	26.5	7	16.5	22.5	0.8
	0.27	26.5	8.5	17	22.5	0.8
	0.27	26.5	6	15	22.5	0.8
	0.33	26.5	6	15	22.5	0.8
	0.33	26.5	7	16.5	22.5	0.8
	0.33	26.5	8.5	17	22.5	0.8
	0.39	26.5	6	15	22.5	0.8
	0.39	26.5	8.5	17	22.5	0.8
	0.47	26.5	7	16	22.5	0.8
	0.47	26.5	8.5	17	22.5	0.8
	0.47	26.5	10	19	22.5	0.8
	0.56	26.5	7	16.5	22.5	0.8
	0.56	26	9	18	22.5	0.8
	0.56	26	11	20	22.5	0.8
	0.68	26.5	8.5	17	22.5	0.8
	0.68	26.5	10	19	22.5	0.8
0.82	26.5	10	19	22.5	0.8	
0.82	26	12	21.5	22.5	0.8	
1	26.5	10	19	22.5	0.8	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn ( $\mu$ F)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	1	26	11	20	22.5	0.8
	1	26.5	12	21.5	22.5	0.8
	1	26.5	13	23	22.5	0.8
	1.2	26.5	10	19	22.5	0.8
	1.2	26	12	21.5	22.5	0.8
	1.2	26	12	21.5	22.5	0.8
	1.5	26	15	25	22.5	0.8
	1.5	26	12	21.5	22.5	0.8
	1.5	26.5	12	23	22.5	0.8
	1.8	26	15	25	22.5	0.8
	2	26	15	25	22.5	0.8
	2.2	26	15	25	22.5	0.8
	2.2	26.5	16	26.5	22.5	0.8
	2.5	26	13.5	24	22.5	0.8
	0.9	32	10	20	26	0.8
	1	32	10	20	26	0.8
	1	30	12	22	26	0.8
	0.39	31	9	18	27.5	0.8
	0.47	31	9	18	27.5	0.8
	0.56	31	9	18	27.5	0.8
	0.68	31	9	18	27.5	0.8
	0.82	31.5	10.5	19.5	27.5	0.8
	0.82	31.5	13	21.6	27.5	0.8
	0.83	31	9	18	27.5	0.8
	1	31.5	10.8	19.5	27.5	0.8
	1	31.5	13	21.6	27.5	0.8
	1.2	31.5	13	21.6	27.5	0.8
	1.2	31.4	10.8	19.5	27.5	0.8
	1.2	31	11	20	27.5	0.8
	1.5	31	11	20	27.5	0.8
	1.5	31.5	13	21.6	27.5	0.8
	1.5	31	14	23.5	27.5	0.8
	1.5	31	14	25	27.5	0.8
	1.8	31.5	13	21.6	27.5	0.8
	1.8	31	14	25	27.5	0.8
	2	32	16	25.5	27.5	0.8
	2	31.5	13	21.6	27.5	0.8
	2	31	14	25	27.5	0.8
	2.2	32	15	30	27.5	0.8
	2.2	32	18	28	27.5	0.8
2.2	31.5	14	25	27.5	0.8	
2.2	31.5	13	21.6	27.5	0.8	
2.2	32	16	25.5	27.5	0.8	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn (μF)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	0.01	10.5	4	9	7.5	0.6
	0.012	10.5	4	9	7.5	0.6
	0.015	10.5	4	9	7.5	0.6
	0.018	10.5	4	9	7.5	0.6
	0.022	10.5	4	9	7.5	0.6
	0.027	10.5	4	9	7.5	0.6
	0.033	10.5	5	11	7.5	0.6
	0.039	10.5	5	11	7.5	0.6
	0.047	10.5	5	11	7.5	0.6
	0.056	10.5	6	12	7.5	0.6
	0.068	10.5	6	12	7.5	0.6
	0.082	10.5	6	12	7.5	0.6
	0.01	13	5	11	10	0.6
	0.012	13	4	9	10	0.6
	0.015	13	4	9	10	0.6
	0.018	13	5	11	10	0.6
	0.022	13	4	9	10	0.6
	0.1	13	5	11	10	0.6
	0.15	13	6	12	10	0.6
	0.18	13	8	14	10	0.6
	0.2	13	7	13	10	0.6
	0.2	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.33	13	8	16	10	0.6
	0.01	18	5	11	15	0.6
	0.012	18	5	10	15	0.6
	0.015	18	5	10	15	0.6
	0.018	18	5	10	15	0.6
	0.15	18	5	11	15	0.6
	0.2	18	6	12	15	0.6
	0.22	18	6	12	15	0.6
	0.33	18	7.5	13.5	15	0.8
	0.2	13	7	13	10	0.6
	0.2	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.33	13	8	16	10	0.6
	0.01	18	5	11	15	0.6
	0.012	18	5	10	15	0.6
	0.015	18	5	10	15	0.6
	0.018	18	5	10	15	0.6
0.15	18	5	11	15	0.6	
0.2	18	6	12	15	0.6	
0.22	18	6	12	15	0.6	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn (μF)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	0.01	10.5	4	9	7.5	0.6
	0.012	10.5	4	9	7.5	0.6
	0.015	10.5	4	9	7.5	0.6
	0.018	10.5	4	9	7.5	0.6
	0.022	10.5	4	9	7.5	0.6
	0.027	10.5	4	9	7.5	0.6
	0.033	10.5	5	11	7.5	0.6
	0.039	10.5	5	11	7.5	0.6
	0.047	10.5	5	11	7.5	0.6
	0.056	10.5	6	12	7.5	0.6
	0.068	10.5	6	12	7.5	0.6
	0.082	10.5	6	12	7.5	0.6
	0.01	13	5	11	10	0.6
	0.012	13	4	9	10	0.6
	0.015	13	4	9	10	0.6
	0.018	13	5	11	10	0.6
	0.022	13	4	9	10	0.6
	0.1	13	5	11	10	0.6
	0.15	13	6	12	10	0.6
	0.18	13	8	14	10	0.6
	0.2	13	7	13	10	0.6
	0.2	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.33	13	8	16	10	0.6
	0.01	18	5	11	15	0.6
	0.012	18	5	10	15	0.6
	0.015	18	5	10	15	0.6
	0.018	18	5	10	15	0.6
	0.15	18	5	11	15	0.6
	0.2	18	6	12	15	0.6
	0.22	18	6	12	15	0.6
	0.33	18	7.5	13.5	15	0.8
	0.2	13	7	13	10	0.6
	0.2	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.33	13	8	16	10	0.6
	0.01	18	5	11	15	0.6
	0.012	18	5	10	15	0.6
	0.015	18	5	10	15	0.6
	0.018	18	5	10	15	0.6
0.15	18	5	11	15	0.6	
0.2	18	6	12	15	0.6	
0.22	18	6	12	15	0.6	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn (μF)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	2.5	32	17	28	27.5	0.8
	2.5	32	16	25.5	27.5	0.8
	3	32	15	24.5	27.5	0.8
	3.3	31.5	22	31	27.5	0.8
	3.3	31	18	33	27.5	0.8
	3.3	31	16	27.5	27.5	0.8
	3.3	32	18	28	27.5	0.8
	3.3	32	16	25.5	27.5	0.8
	3.5	32	18	28	27.5	0.8
	3.5	31	18	33	27.5	0.8
	3.9	32	17	28	27.5	0.8
	3.9	32	19	29	27.5	0.8
	3.9	31	18	33	27.5	0.8
	4	31	18	33	27.5	0.8
	4.5	31	22	31	27.5	0.8
	4.7	32	18.5	31	27.5	0.8
	4.7	32	15	30	27.5	0.8
	4.7	31	22	31	27.5	0.8
	6.8	31	22	37	27.5	0.8
	1.5	36	10.5	21.5	30	1.0
2	36	13	22	30	1.0	
3	36	14.5	25.5	30	1.0	
3	36	14.5	25.5	30	1.0	
0.9	36	10.5	20	32	1.0	
1	36	11	12	32	1.0	
1.2	36	10.5	20	32	1.0	
1.2	36	12	22	32	1.0	
1.25	36	10.5	20	32	1.0	
1.25	36	12	22	32	1.0	
1.3	36	10.5	20	32	1.0	
1.3	36	12	22	32	1.0	
1.35	36	11	22	32	1.0	
1.35	36	12.5	24	32	1.0	
1.4	36	11	22	32	1.0	
1.4	36	12.5	24	32	1.0	
1.5	36	11	22	32	1.0	
1.5	36	12.5	24	32	1.0	
1.6	36	11	22	32	1.0	
1.6	36	13.5	24	32	1.0	
1.7	36	12	22	32	1.0	
1.7	36	15	25	32	1.0	
1.8	36	12	22	32	1.0	
1.8	36	15	25	32	1.0	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn (μF)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	1.9	36	12.5	24	32	1.0
	1.9	36	15	25	32	1.0
	2	36	12.5	24	32	1.0
	2	36	15	25	32	1.0
	2.2	36	12.5	24	32	1.0
	2.2	38	16	28	32	1.0
	2.4	36	15	25	32	1.0
	2.4	38	16	28	32	1.0
	2.5	36	15	25	32	1.0
	2.5	38	17	28	32	1.0
	2.6	36	15	25	32	1.0
	2.6	38	17	28	32	1.0
	2.7	36	15	25	32	1.0
	2.7	38	18.5	29	32	1.0
	2.8	36	15	25	32	1.0
	2.8	38	18.5	29	32	1.0
	3	37	15	27	32	1.0
	3	38	18.5	29	32	1.0
	3.2	38	16	28	32	1.0
	3.2	38	19.5	31	32	1.0
	3.3	38	16	28	32	1.0
	3.3	38	19.5	31	32	1.0
	3.3	36	17	26	32	1.0
	3.5	38	17	28	32	1.0
	3.5	38	19.5	31	32	1.0
	3.7	38	17	28	32	1.0
	3.8	38	18.5	29	32	1.0
	3.9	38	18.5	29	32	1.0
	4	38	18.5	29	32	1.0
	4.2	38	18.5	29	32	1.0
	4.2	38	18.5	29	32	1.0
	4.3	38	19.5	31	32	1.0
	4.5	38	19.5	31	32	1.0
4.7	38	19.5	31	32	1.0	
4.7	36	17	26	32	1.0	
4.7	36.5	15.5	26	32	1.0	
5	38	19.5	31	32	1.0	
5	36	30	20	32	1.0	
5	36	19.5	32	32	1.0	
6	36	22	33	32	1.0	
6	36	31.5	24	32	1.0	
7	36	12	21.5	32	1.0	
1.5	41	11	22	37.5	1.0	

## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn (μF)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	1.8	41	11	22	37.5	1.0
	2.2	41	16	28.5	37.5	1.0
	2.2	41	13	24	37.5	1.0
	3.3	41.5	15	24	37.5	1.0
	3.9	41	16	30	37.5	1.0
	4.7	42	14	28	37.5	1.0
	4.7	41	15	26	37.5	1.0
	6.8	41.5	20.5	34	37.5	1.0
	6.8	41	18.5	33.5	37.5	1.0
	8.2	41	22	37	37.5	1.0
	10	42	24	36	37.5	1.0
	3.7	47	17	31	42	1.0
	3.8	47	17	31	42	1.0
	3.9	47	17	31	42	1.0
	4	47	17	31	42	1.0
	4.2	47	17	31	42	1.0
	4.3	47	19	31	42	1.0
	4.5	47	19	31	42	1.0
	4.7	47	20	31	42	1.0
	5	47	20	31	42	1.0
	5.5	47	17	31	42	1.0
	5.5	48	23	32	42	1.0
	5.6	47	17	31	42	1.0
	5.6	47	23	32	42	1.0
	6	47	19	31	42	1.0
	6	48	23	32	42	1.0
	6.5	47	19	31	42	1.0
	6.5	47	23	35	42	1.0
	6.8	47	20	31	42	1.0
	6.8	48	24	37	42	1.0
	7	47	20	31	42	1.0
	7	48	24	37	42	1.0
	7.5	47	20	33	42	1.0
	7.5	48	24	37	42	1.0
	8	48	23	32	42	1.0
	8	48	26.5	38	42	1.0
	8	46	24	38	42	1.0
	8.2	48	23	32	42	1.0
	8.2	48	26.5	38	42	1.0
	8.5	47	23	35	42	1.0
8.5	48	26.5	38	42	1.0	
9	47	23	35	42	1.0	
9	46	24	38	42	1.0	

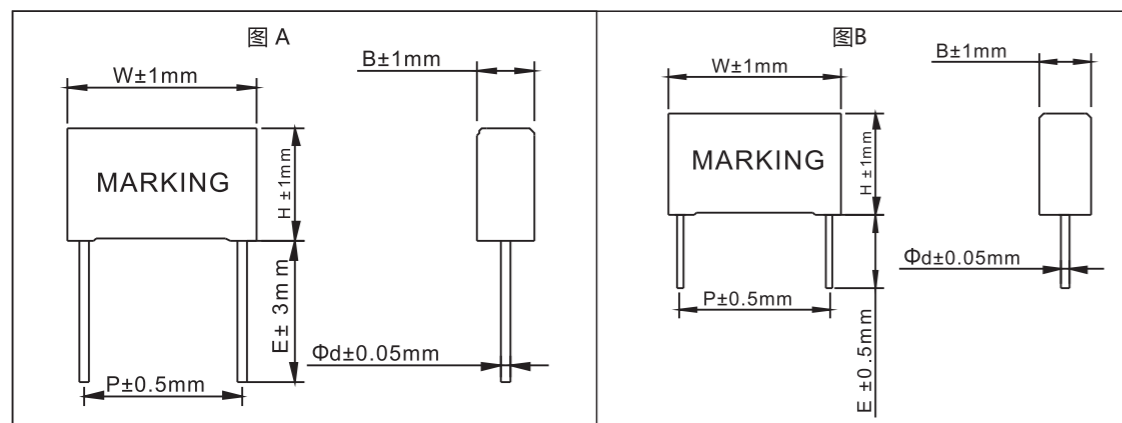
## 外形尺寸 Dimensions (mm)

常用规格 Dimension						
Un	Cn (μF)	Dimension(mm)				
		L	B	H	P	D
275 V.AC	9.5	48	24	37	42	1.0
	10	46	24	38	42	1.0
	10	48	24	37	42	1.0
	9	58	26	38	52.5	1.0
	9.5	58	26	38	52.5	1.0
	10	58	26	38	52.5	1.0
	2.4	36	15	25	32	1.0
	2.4	38	16	28	32	1.0
	2.5	36	15	25	32	1.0
	2.5	38	17	28	32	1.0
	2.6	36	15	25	32	1.0
	2.6	38	17	28	32	1.0
	2.7	36	15	25	32	1.0
	2.7	38	18.5	29	32	1.0
	2.8	36	15	25	32	1.0
	2.8	38	18.5	29	32	1.0
	3	37	15	27	32	1.0
	3	38	18.5	29	32	1.0
	3.2	38	16	28	32	1.0
	3.2	38	19.5	31	32	1.0
	3.3	38	16	28	32	1.0
	3.3	38	19.5	31	32	1.0
	3.3	36	17	26	32	1.0
	3.5	38	17	28	32	1.0
	3.5	38	19.5	31	32	1.0
	3.7	38	17	28	32	1.0
	3.8	38	18.5	29	32	1.0
	3.9	38	18.5	29	32	1.0
	4	38	18.5	29	32	1.0
	4.2	38	18.5	29	32	1.0
	4.2	38	18.5	29	32	1.0
	4.3	38	19.5	31	32	1.0
	4.5	38	19.5	31	32	1.0
	4.7	38	19.5	31	32	1.0
	4.7	36	17	26	32	1.0
	4.7	36.5	15.5	26	32	1.0
	5	38	19.5	31	32	1.0
	5	36	30	20	32	1.0
	5	36	19.5	32	32	1.0
	6	36	22	33	32	1.0
6	36	31.5	24	32	1.0	
7	36	12	21.5	32	1.0	
1.5	41	11	22	37.5	1.0	



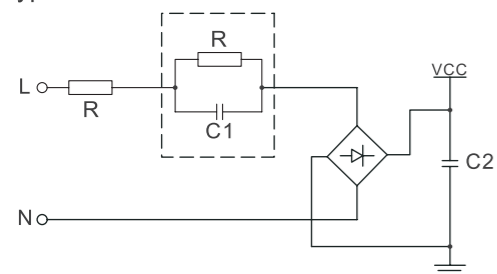
金属化聚丙烯膜抗干扰电容器 (RC并联)  
Metallized polypropylene film Interference Suppression capacitor ( Parallel RC-Uuit )

外形图 Outline drawing



- 特点**  
X2电容与放电电阻内部并联构成  
优良的阻燃性能  
广泛用于电源线路等抗干扰场合
- Features**  
Internal parallel connection from X2 cap to discharge resistor  
Excellent active and passive flame resistant abilities  
Widely used in across-the-line, interference suppression cicuit, etc.

典型线路图  
Typical circuit



C: 降压电容  
Capacitive divider

技术要求 Specifications

电容器类别Class	XR类	
气候类别Climatic Category	40/105/21	
额定电压Rated Voltage	275Vac / 310 Vac (50/60Hz)	
电容量范围Capacitance Range	0.22μF~10μF	
电容量偏差Capacitance Tolerance	±5% (J)、±10% (K)、±20% (M)	
耐电压Voltage Proof	引线之间Between Terminals:	4.3Un VDC / 60sec
	极壳之间Between Terminals To Case:	2050VAC, 50/60HZ, 60sec
放电电阻范围Resistance range	470KΩ— 20MΩ ±10% (K)	
损耗角正切Dissipation Factor	0.01μF≤CR < 0.47μF	≤10×10 <sup>-4</sup> ( 1KHz , 20°C )
	0.47μF≤CR ≤ 1 μF	≤20×10 <sup>-4</sup> ( 1KHz , 20°C )
	1 < μFCR ≤ 10 μF	≤30×10 <sup>-4</sup> ( 1KHz , 20°C )

外形尺寸 Dimensions (mm)

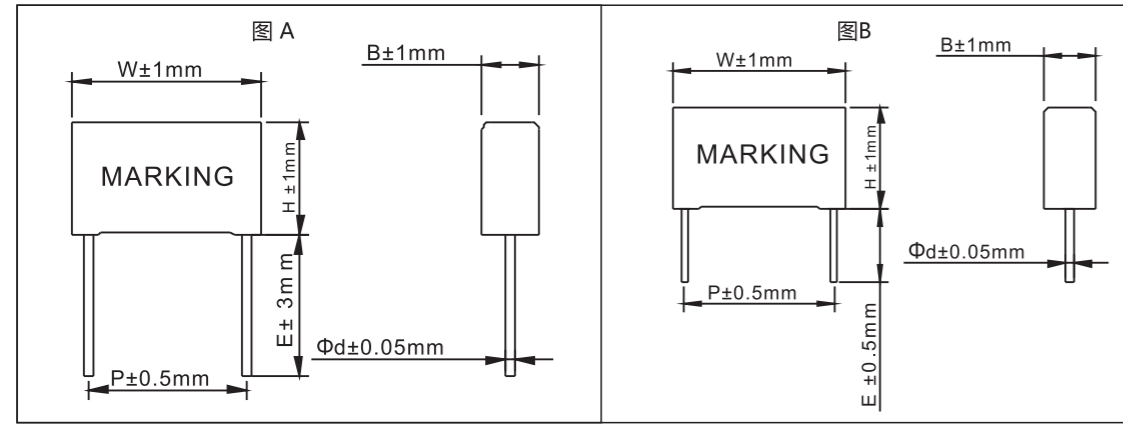
275V.AC						
Cn(μF)	Resistance	L	B	H	P	D
0.22	470KΩ~ 20MΩ	26.5	7	16	22.5	0.8
0.33		26.5	8.5	17	22.5	0.8
0.47		26.5	10	18.5	22.5	0.8
0.68		26.5	11	20	22.5	0.8
1		26.5	12	22	22.5	0.8
0.47		32	9	18	27.5	0.8
0.68		32	11	20	27.5	0.8
1		32	13	22	27.5	0.8
1.5		32	13	22	27.5	0.8
2.2		32	14	28	27.5	0.8
3.3	32	18	33	27.5	0.8	
4.7	32	22	37	27.5	0.8	
1.5	41	11	22	37.5	1	
2.2	41	13	24	37.5	1	
3.3	42	14	28	37.5	1	
4.7	41	17	32	37.5	1	
6.8	42	20	40	37.5	1	
10	41	26	41	37.5	1	
电阻值	470KΩ 2.2MΩ	680KΩ 3.3MΩ	820KΩ 4.7MΩ	1MΩ 6.8MΩ	1.5MΩ 10MΩ	

内部示意图

### 金属化聚丙烯膜抗干扰阻容模块 (RC串联)

Metallized polypropylene film Interference Suppression RC-Uuit

#### 外形图 Outline drawing



#### 特点

- 金属化聚丙烯膜
- 能承受过压冲击
- 优良的阻燃性能
- 具有良好的抑制噪音
- 吸收能量尖峰和阻尼作用

#### Features

- Metallized polypropylene film
- Withstanding overvoltage stressing
- Excellent active and passive flame resistant abilities
- Excellent active noise suppression , absorbing peak and energy, damp .

#### 典型线路图 Typical circuit



后级电路  
Back-stage circuit



#### 技术要求 Specifications

电容器类别Class	XR类	
气候类别Climatic Category	40/105/21	
额定电压Rated Voltage	275Vac / 310 Vac (50/60Hz)	
电容量范围Capacitance Range	0.22μF~10μF	
电容量偏差Capacitance Tolerance	±5% ( J )、±10% ( K )、±20% ( M )	
耐电压Voltage Proof	引线之间Between Terminals:	4.3Un VDC / 60sec
	极壳之间Between Terminals To Case:	2050VAC, 50/60HZ , 60sec
放电电阻范围Resistance range	470KΩ— 20MΩ ±10% (K)	
损耗角正切Dissipation Factor	0.01μF≤CR<0.47μF	≤10×10 <sup>-4</sup> ( 1KHz , 20°C )
	0.47μF≤CR≤1 μF	≤20×10 <sup>-4</sup> ( 1KHz , 20°C )
	1 < μFCR≤ 10 μF	≤30×10 <sup>-4</sup> ( 1KHz , 20°C )

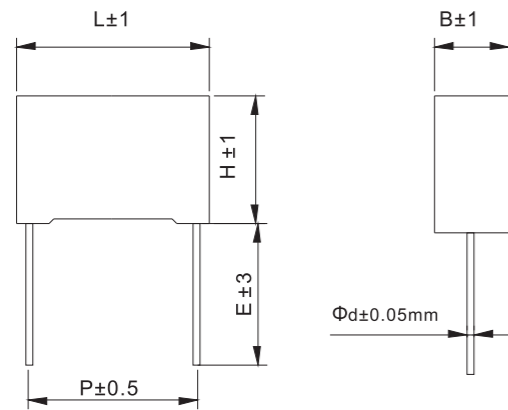
#### 外形尺寸 Dimensions (mm)

275V.AC						
C <sub>n</sub> (μF)	Resistance	L	B	H	P	D
0.01	10~470Ω	18	6	13.5	15	0.6
0.01	120Ω	18	6	17	15	0.6
0.015	10~470Ω	18	6	13.5	15	0.6
0.022	10~470Ω	18	6	13.5	15	0.6
0.033	10~470Ω	18	6	13.5	15	0.6
0.047	10~470Ω	18	6	13.5	15	0.6
0.068	10~470Ω	22	7.5	13.5	18	0.6
0.1	10~470Ω	22	7.5	13.5	18	0.6
0.1	10~470Ω	18	6	17	15	0.6
0.15	120Ω	26.5	7	16.5	22.5	0.8
0.22	10~470Ω	26.5	7	16.5	22.5	0.8
0.27	10~470Ω	26.5	8.5	17	22.5	0.8
0.3	10~470Ω	31	9	18	27.5	0.8
0.33	10~470Ω	31	9	18	27.5	0.8
0.47	10~470Ω	31	11	20	27.5	0.8
0.5	10~470Ω	31	11	20	27.5	0.8
0.68	10~470Ω	31	13	22	27.5	0.8
1	10~470Ω	31	13	22	27.5	0.8
电阻值	10Ω 100Ω	22Ω 120Ω	47Ω 220Ω	51Ω 470Ω	68Ω 1KΩ	
内部示意图						

### 塑料外壳双面金属化聚丙烯膜电容器

Double sided metallized polypropylene film capacitor (Box-type)

#### 外形图 Outline drawing



#### 特点

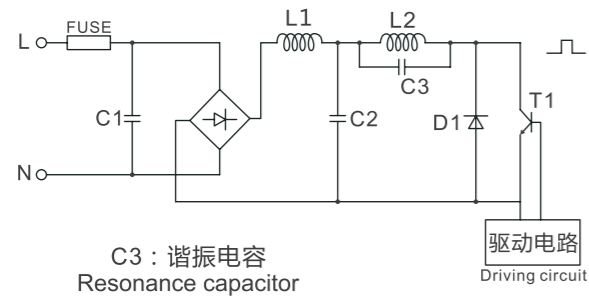
- 双面金属化聚丙烯膜
- 损耗小、内部升温小
- 负电容量温度系数
- 优异的阻燃性能

#### Features

- Doublesided metallized polypropylene film
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Excellent active and passive flame resistant circuit

#### 典型线路图

Typical circuit



#### 技术要求 Specifications

引用标准Reference Standard	GB/T 14579(IEC 60384-17)					
气候类别Climatic Category	40/105/56					
额定温度Rated Temperature	85°C					
工作温度Operating Temperature	-40°C~105°C(+85°C to 105°C:decreasing factor 1.25% per °C for UR(dc) (+75°C to 105°C:decreasing factor 1.35% per °C for UR(ac))					
额定电压Rated Voltage	250Vac(630 Vdc),300 Vac(800 Vdc),400Vac(1000Vdc), 500 Vac(1600 Vdc),700 Vac(2000Vdc),900 Vac(2500 Vdc)					
电容量范围Capacitance Range	0.010μF~0.12μF					
电容量偏差Capacitance Tolerance	±5% ( J )、±10% ( K )、±20% ( M )					
耐电压Voltage Proof	1.6UR(10S)					
损耗角正切Dissipation Factor	≤0.0010(1kHz 1V)					
绝缘电阻Insulation Resistance	≥100000MΩ,(20°C,100v,1min)					
最大脉冲爬升速度Maximum Pulse Rise Time(dV/dt):若实际工作电压U比额定电压UR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UR/U If the working voltage (U) is lower than the rated voltage (UR), 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 UR/U	UR(V)	dV/dt(V/μs)				
		P=10	P=15	P=22.5	P=27.5	
	250(630 Vdc)	3000	1100	---	---	
	300(800 Vdc)	---	2500	1500	---	
	400(1000 Vdc)	---	3500	2100		
	500(1600 Vdc)	---	5000	3000	2000	
	700(2000 Vdc)	---	8000	5000	2200	
900(2500 Vdc)	---	---	7000			

## 外形尺寸 Dimensions (mm)

## 630VDC

	C <sub>n</sub> (μF)	L	B	H	P	D
MKP81 seris	0.022	13	4	9	10	0.6
	0.027	13	4	9	10	0.6
	0.033	13	4	9	10	0.6
	0.039	13	4	9	10	0.6
	0.047	13	5	11	10	0.6
	0.056	13	5	11	10	0.6
	0.068	13	5	11	10	0.6
	0.082	13	6	12	10	0.6
	0.1	13	6	12	10	0.6
	0.15	13	6	12	10	0.6
	0.18	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.068	18	5	11	15	0.6
	0.082	18	5	11	15	0.6
	0.1	18	5	11	15	0.6
	0.15	18	5	11	15	0.6
	0.18	18	6	12	15	0.8
	0.22	18	7.5	13.5	15	0.8
	0.27	18	7.5	13.5	15	0.8
	0.33	18	8.5	14.5	15	0.8
	0.39	18	10	15.8	15	0.8
	0.47	18	10	15.8	15	0.8
	0.56	18	10	18	15	0.8
	0.68	18	10	18	15	0.8
	0.82	18	11	19	15	0.8
	1	18	11	19	15	0.8
	0.1	26.5	6	14.5	22.5	0.8
	0.15	26.5	6	15	22.5	0.8
	0.18	26.5	6	15	22.5	0.8
	0.22	26.5	6	15	22.5	0.8
	0.27	26.5	6	15	22.5	0.8
	0.33	26.5	7	16.5	22.5	0.8
	0.39	26.5	7	16.5	22.5	0.8
	0.47	26.5	7	16.5	22.5	0.8
	0.56	26.5	8.5	17	22.5	0.8
	0.68	26.5	8.5	17	22.5	0.8
	0.82	26.5	10	19	22.5	0.8
	1	26.5	10	19	22.5	0.8
	0.47	31	9	18	27.5	0.8
	0.56	31	9	18	27.5	0.8
0.68	31	9	18	27.5	0.8	
0.82	31.4	10.8	19.5	27.5	0.8	
1	31.4	10.8	19.5	27.5	0.8	

## 外形尺寸 Dimensions (mm)

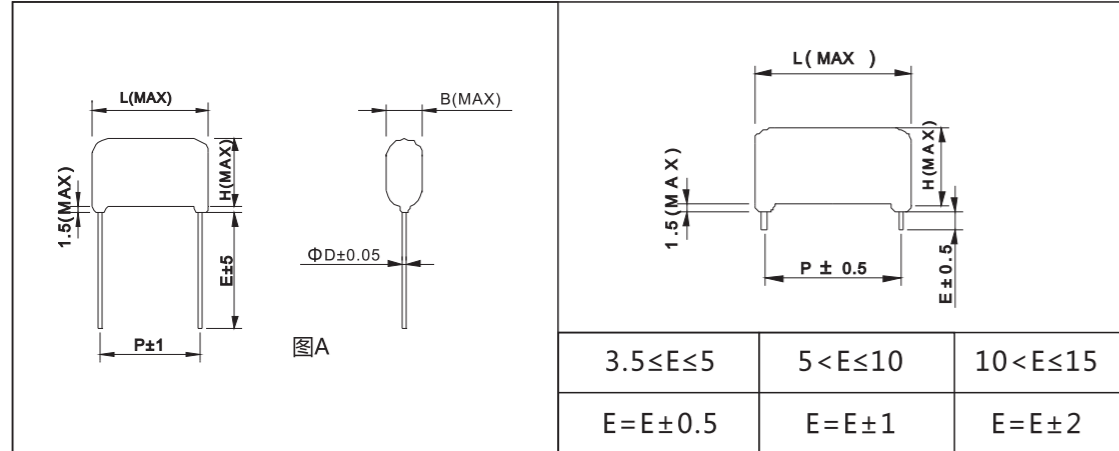
## 630VDC

	C <sub>n</sub> (μF)	L	B	H	P	D
MKP81 seris	1.2	31	11	20	27.5	0.8
	1.5	31.5	13	21.6	27.5	0.8
	1.8	31	14	23.5	27.5	0.8
	2	31	14	25	27.5	0.8
	2.2	32	16	25.5	27.5	0.8
	2.7	32	17	28	27.5	0.8
	3.3	32	18	28	27.5	0.8
	3.9	32	18	33	27.5	0.8
	0.1	13	6	12	10	0.6
	0.15	13	6	12	10	0.6
	0.18	13	8	14	10	0.6
	0.22	13	8	14	10	0.6
	0.068	18	5	11	15	0.6
	0.082	18	5	11	15	0.6
	0.1	18	5	11	15	0.6
	0.15	18	5	11	15	0.6
	0.18	18	6	12	15	0.8
	0.22	18	7.5	13.5	15	0.8
	0.27	18	7.5	13.5	15	0.8
	0.33	18	8.5	14.5	15	0.8
	0.39	18	10	15.8	15	0.8
	0.47	18	10	15.8	15	0.8
	0.56	18	10	18	15	0.8
	0.68	18	10	18	15	0.8
	0.82	18	11	19	15	0.8
	1	18	11	19	15	0.8
	0.1	26.5	6	14.5	22.5	0.8
	0.15	26.5	6	15	22.5	0.8
	0.18	26.5	6	15	22.5	0.8
	0.22	26.5	6	15	22.5	0.8
	0.27	26.5	6	15	22.5	0.8
	0.33	26.5	7	16.5	22.5	0.8
	0.39	26.5	7	16.5	22.5	0.8
	0.47	26.5	7	16.5	22.5	0.8
	0.56	26.5	8.5	17	22.5	0.8
	0.68	26.5	8.5	17	22.5	0.8
	0.82	26.5	10	19	22.5	0.8
	1	26.5	10	19	22.5	0.8
	0.47	31	9	18	27.5	0.8
	0.56	31	9	18	27.5	0.8
0.68	31	9	18	27.5	0.8	
0.82	31.4	10.8	19.5	27.5	0.8	
1	31.4	10.8	19.5	27.5	0.8	

### 金属化聚丙烯膜电容器 (粉包型)

Metallized polypropylene film capacitor (powder coating)

#### 外形图 Outline drawing



#### 特点

- 金属化聚丙烯膜
- 高频损耗小
- 内部升温小
- 阻燃环氧粉末封装 (UL94/V-0)

#### Features

- Metallized polypropylene film
- Low loss at high frequency
- Small inherent temperature rise
- Flame retardant epoxy resin powder coating (UL94/V-0)

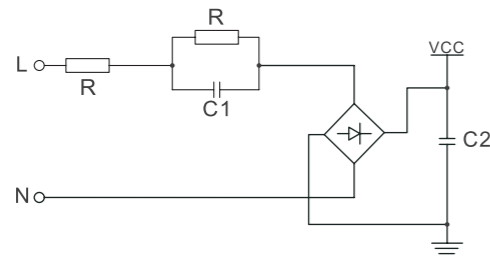
#### 主要用途

- 广泛应用于高频、直流、交流和脉冲电路中
- 适用于要求体积小, 性能优异的彩电S校正电路
- 专为大屏幕显示器及彩电的S校正电路设计
- 适用于各种高频、大电流场合

#### Typical application

- Widely used in high frequency, DC, AC and pulse circuits
- Providing optimum performance with small size in S-correction circuits for colour TV set
- Specially designed for S-correction circuits of large Screen monitor and colour TV
- Suitable for the situation where applies high frequency and high current pulse

#### 典型线路图 Typical circuit



C: 降压电容  
Capacitive divider

### 技术要求 Specifications

引用标准Reference Standard	GB/T 14579(IEC 60384-17)							
气候类别Climatic Category	40/105/21							
额定温度Rated Temperature	85°C							
工作温度Operating Temperature	-40°C~105°C(+85°C to 105°C:decreasing factor 1.25% per °C for UR							
额定电压Rated Voltage	100V、160V、250V、400V、630V、1000V、1250V							
电容量范围Capacitance Range	0.010μF~10μF							
电容量偏差Capacitance Tolerance	±5% ( J )、±10% ( K )、±20% ( M )							
耐电压Voltage Proof	1.8UR(10S)							
损耗角正切Dissipation Factor	≤0.0010(1kHz 1V)							
绝缘电阻Insulation Resistance	≥100000MΩ, CN≤0.33μF ≥30000s, CN>0.33μF (20°C,100V,1min)							
最大脉冲爬升速度Maximum Pulse Rise Time(dV/dt):若实际工作电压U比额定电压UR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UR/U If the working voltage (U) is lower than the rated voltage (UR), 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 UR/U	UR(V)	dV/dt(V/μs)						
		P=7.5	P=10	P=15	P=20	P=25	P=30	
		100/160	180	150	110	80	60	---
		200/250	660	560	310	150	110	---
		400	900	780	600	300	180	120
630	1500	1200	900	400	220	150		
1000	2500	2200	---	---	---	---		

## 外形尺寸 Dimensions (mm)

## 250VDC

	C <sub>n</sub> (μF)	L	B	H	P	D
CBB21 series	0.056	13.0	6.5	10.0	10	0.6
	0.068	13.0	7.0	10.5	10	0.6
	0.082	13.0	6.0	10.5	10	0.6
	0.10	13.0	6.5	11.0	10	0.6
	0.12	13.0	7.0	11.5	10	0.6
	0.10	18	6.5	12.0	15	0.8
	0.12	18	7.0	12.5	15	0.8
	0.15	18	6.5	15.0	15	0.8
	0.18	18	8.5	14.0	15	0.8
	0.22	18	6.5	12.0	15	0.8
	0.27	18	8.5	14.0	15	0.8
	0.30	18	7.5	13.0	15	0.8
	0.33	18	7.5	13.2	15	0.8
	0.39	18	7.0	12.0	15	0.8
	0.47	18	7.0	14.0	15	0.8
	0.56	18	8.0	13.5	15	0.8
	0.68	18	8.0	15.5	15	0.8
	0.82	18	9.0	16.0	15	0.8
	1.00	18	10.5	16.5	15	0.8
	1.20	18	11.5	17.0	15	0.8
	0.56	23	6.5	12.5	20	0.8
	0.68	23	6.5	14.0	20	0.8
	0.82	23	8.0	13.5	20	0.8
	1.0	23	8.5	14.5	20	0.8
	1.2	23	9.5	15.0	20	0.8
	1.5	23	9.5	16.5	20	0.8
	1.8	23	10.5	17.5	20	0.8
	2.0	23	10.0	20.0	20	0.8
	2.2	23	11.5	19.0	20	0.8
	2.7	23	13.0	20.5	20	0.8
30	23	13.5	21.0	20	0.8	
1.5	25	10.0	15.5	22	0.8	
1.8	25	11.0	16.5	22	0.8	
2.0	25	11.5	17.0	22	0.8	
2.2	25	11.5	18.5	22	0.8	
2.7	25	12.5	20.0	22	0.8	
3.0	25	13.0	20.5	22	0.8	
3.3	25	14.0	21.0	22	0.8	
1.8	29.5	9.5	15.0	26	0.8	
2.0	29.5	10.0	15.5	26	0.8	
2.2	29.5	9.0	18.5	26	0.8	
2.7	29.5	11.0	18.0	26	0.8	
3.0	29.5	11.0	19.5	26	0.8	

## 外形尺寸 Dimensions (mm)

## 250VDC

	C <sub>n</sub> (μF)	L	B	H	P	D
CBB21 series	3.3	29.5	12.0	19.5	26	0.8
	3.9	29.5	13.0	20.0	26	0.8
	4.0	29.5	13.5	20.5	26	0.8
	4.7	29.5	13.0	23.5	26	0.8
	5.0	29.5	14.0	23.0	26	0.8
	5.6	29.5	16.0	23.0	26	0.8
	6.0	29.5	16.5	23.5	26	0.8
	6.8	29.5	16.5	25.5	26	0.8
	7.0	29.5	17.0	25.5	26	0.8
	4.0	35	12.0	19.0	31	0.8
	4.7	35	13.0	20.0	31	0.8
	5.0	35	13.5	20.5	31	0.8
	5.6	35	14.0	21.0	31	0.8
	6.0	35	14.5	22.0	31	0.8
	6.8	35	15.5	23.0	31	0.8
	7.0	35	16.0	23.0	31	1
	8.2	35	16.5	25.0	31	1
	10.0	35	16.0	30.0	31	1
	4.0	45	10.0	17.0	41	0.8
	4.7	45	11.0	18.0	41	0.8
	5.0	45	12.0	17.5	41	0.8
	5.6	45	12.0	19.0	41	0.8
	6.0	45	13.0	18.5	41	0.8
	6.8	45	13.0	20.5	41	0.8
	7.0	45	12.5	21.5	41	0.8

## 外形尺寸 Dimensions (mm)

## 400VDC

CBB21 series	C <sub>n</sub> (μF)	L	B	H	P	D
	0.027	13.0	6.5	12.0	10	0.6
0.030	13.0	6.5	12.0	10	0.6	
0.033	13.0	7.0	12.0	10	0.6	
0.039	13.0	7.0	12.5	10	0.6	
0.047	13.0	8.0	13.0	10	0.6	
0.056	13.0	8.5	14.0	10	0.6	
0.10	18.0	6.5	12.0	15	0.8	
0.12	18.0	7.0	13.0	15	0.8	
0.15	18.0	6.5	12.5	15	0.8	
0.18	18.0	8.5	14.0	15	0.8	
0.22	18.0	6.5	12.5	15	0.8	
0.27	18.0	7.0	13.0	15	0.8	
0.30	18.0	7.5	13.0	15	0.8	
0.33	18.0	7.5	13.5	15	0.8	
0.39	18.0	8.5	14.5	15	0.8	
0.47	18.0	8.5	15.5	15	0.8	
0.56	18.0	10.0	15.5	15	0.8	
0.68	18.0	11.0	16.0	15	0.8	
0.82	18.0	12.0	17.5	15	0.8	
0.47	23.0	7.0	14.5	20	0.8	
0.56	23.0	7.5	15.0	20	0.8	
0.68	23.0	8.0	15.0	20	0.8	
0.82	23.0	9.0	16.0	20	0.8	
1.00	23.0	9.5	18.0	20	0.8	
1.20	23.0	11.0	18.0	20	0.8	
1.50	23.0	12.0	19.5	20	0.8	
1.80	23.0	13.5	20.5	20	0.8	
2.00	23.0	13.5	22.0	20	0.8	
2.20	23.0	15.5	22.0	20	0.8	
0.68	25.0	8.5	14.5	22	0.8	
0.82	25.0	8.5	16.0	22	0.8	
1.00	25.0	10.5	16.0	22	0.8	
1.20	25.0	10.5	17.5	22	0.8	
1.50	25.0	11.5	19.0	22	0.8	
1.80	25.0	13.0	20.0	22	0.8	
2.00	25.0	13.0	22.0	22	0.8	
2.20	25.0	13.5	22.0	22	0.8	
0.68	29.5	7.0	14.0	26	0.8	
0.82	29.5	7.5	15.0	26	0.8	
1.0	29.5	9.0	14.5	26	0.8	
1.2	29.5	10.0	15.0	26	0.8	
1.5	29.5	10.0	17.0	26	0.8	
1.8	29.5	10.5	19.5	26	0.8	

## 外形尺寸 Dimensions (mm)

## 400VDC

CBB21 series	C <sub>n</sub> (μF)	L	B	H	P	D
	2.0	29.5	12.0	19.0	26	0.8
2.2	29.5	12.5	19.5	26	0.8	
2.7	29.5	13.0	21.5	26	0.8	
3.0	29.5	14.5	21.5	26	0.8	
3.3	29.5	14.5	23.0	26	0.8	
3.9	29.5	16.0	24.5	26	0.8	
4.0	29.5	16.0	25.0	26	0.8	
4.7	29.5	18.0	25.0	26	0.8	
1.5	31.0	10.0	17.5	27	0.8	
1.8	31.0	10.5	19.5	27	0.8	
2.0	31.0	11.0	20.0	27	0.8	
2.2	31.0	11.5	20.5	27	0.8	
2.7	31.0	13.0	22.0	27	0.8	
3.0	31.0	13.5	22.5	27	0.8	
3.3	31.0	14.5	23.0	27	0.8	
3.9	31.0	16.0	24.5	27	0.8	
4.0	31.0	16.0	25.0	27	0.8	
4.7	31.0	17.5	26.5	27	0.8	
2.0	35.0	10.5	18.0	31	0.8	
2.2	35.0	10.5	19.5	31	0.8	
2.7	35.0	11.5	20.5	31	0.8	
3.0	35.0	13.0	20.0	31	0.8	
3.3	35.0	13.5	20.5	31	0.8	
3.9	35.0	15.0	22.5	31	0.8	
4.0	35.0	15.0	22.5	31	0.8	
4.7	35.0	15.5	24.5	31	0.8	
5.0	35.0	15.5	26.0	31	0.8	
5.6	35.0	17.0	26.0	31	0.8	
6.0	35.0	17.5	26.5	31	0.8	
6.8	35.0	19.0	27.5	31	1	
7.0	35.0	19.0	27.0	31	1	

外形尺寸 Dimensions (mm)

CBB21 series	630VDC					
	C <sub>n</sub> (μF)	L	B	H	P	D
	0.010	13	6	11	10	0.6
	0.012	13	6.5	11.5	10	0.6
	0.015	13	7	12	10	0.6
	0.018	13	7.5	13	10	0.6
	0.022	13	8	13.5	10	0.6
	0.10	18	6.5	12	15	0.8
	0.12	18	7	12.5	15	0.8
	0.15	18	8	13.5	15	0.8
	0.18	18	8.5	14	15	0.8
	0.22	18	9.5	15	15	0.8
	0.27	18	9.5	16.5	15	0.8
	0.30	18	11	16	15	0.8
	0.33	18	11.5	16.5	15	0.8
	0.39	18	12.5	17	15	0.8
	0.22	23	7	13	20	0.8
	0.27	23	8.0	13.5	20	0.8
	0.30	23	8.5	14	20	0.8
	0.33	23	8.5	15	20	0.8
	0.39	23	8.5	16	20	0.8
	0.47	23	9.5	16.5	20	0.8
	0.56	23	10.5	17	20	0.8
	0.68	23	11.5	18.5	20	0.8
	0.82	23	12.5	19.5	20	0.8
	1.00	23	14	21.5	20	0.8
	0.33	25	8.5	14	22	0.8
	0.39	25	9	15	22	0.8
	0.47	25	9.5	16.5	22	0.8
	0.56	25	10	17.5	22	0.8
	0.56	25	11	18	22	0.8
	0.82	25	12.5	19.5	22	0.8
	1.00	25	13	21.5	22	0.8
	1.20	25	15	22.5	22	0.8
	1.50	25	16.5	24.5	22	0.8
	0.82	29.5	11	18	26	0.8
	1.0	29.5	10.5	21	26	0.8
	1.2	29.5	12	22.0	26	0.8
	1.5	29.5	13.5	24	26	0.8
	1.8	29.5	15.5	24.5	26	0.8
	2.0	29.5	17	24.5	26	0.8
	2.2	29.5	16.5	27	26	0.8
	1.0	31	10.5	21	27	0.8
	1.2	31	13.5	19.5	27	0.8
	1.5	31	14.5	21.5	27	0.8

外形尺寸 Dimensions (mm)

CBB21 series	630VDC					
	C <sub>n</sub> (μF)	L	B	H	P	D
	1.8	31	16	23	27	0.8
	2.0	31	16	24.5	27	0.8
	2.2	31	17.5	25	27	0.8
	2.7	31	18.5	27.5	27	0.8
	3.0	31	20	29	27	0.8
	1.0	35	10.5	18	31	0.8
	1.2	35	11	20	31	0.8
	1.5	35	13.5	19.5	31	0.8
	1.8	35	13.5	22.5	31	0.8
	2.0	35	14.5	23.5	31	0.8
	2.2	35	14.5	25	31	0.8
	2.7	35	17	26	31	0.8
	3.0	35	18	27.5	31	0.8
	3.3	35	19	27.5	31	0.8
	3.9	35	20.5	29.5	31	1
	4.0	35	21	30	31	1
	4.7	35	23.5	31	31	0.8



## 外形尺寸 Dimensions (mm)

## 250VAC

	C <sub>n</sub> (μF)	L	B	H	P	D
CBB21 series	0.01	18	6.5	12.0	15	0.8
	0.12	18	7	12.5	15	0.8
	0.15	18	7	11.5	15	0.8
	0.18	18	8.5	14.0	15	0.8
	0.22	18	9	15.0	15	0.8
	0.27	18	10	16.0	15	0.8
	0.30	18	7	12.5	15	0.8
	0.33	18	7	14.0	15	0.8
	0.39	18	8	15.0	15	0.8
	0.47	18	9	14.5	15	0.8
	0.56	18	9.5	16.0	15	0.8
	0.68	18	11	16.0	15	0.8
	0.33	23	7.5	13.0	20	0.8
	0.39	23	7.5	14.5	20	0.8
	0.47	23	7.5	13.5	20	0.8
	0.56	23	8	14.0	20	0.8
	0.68	23	9	14.5	20	0.8
	0.82	23	9	16.5	20	0.8
	1.00	23	10	17.0	20	0.8
	1.20	23	11.5	18.0	20	0.8
	1.50	23	12	19.5	20	0.8
	1.80	23	12.5	21.5	20	0.8
	2.00	23	13.5	22.0	20	0.8
	2.20	23	15	22.0	20	0.8
	0.68	25	8.5	14.0	22	0.8
	0.82	25	9	15.0	22	0.8
	1.0	25	9.5	17.0	22	0.8
	1.20	25	10.5	18.0	22	0.8
	1.50	25	11	20.0	22	0.8
	1.80	25	12	21.0	22	0.8
	2.00	25	13	22.0	22	0.8
	2.20	25	13.5	22.5	22	0.8
	0.68	29.5	7.5	13.5	26	0.8
0.82	29.5	8	14.0	26	0.8	
1.0	29.5	9	14.5	26	0.8	
1.2	29.5	10	15.5	26	0.8	
1.5	29.5	10.5	17.5	26	0.8	
1.8	29.5	11	18.0	26	0.8	
2.0	29.5	12	19.0	26	0.8	
2.2	29.5	12.5	19.5	26	0.8	
2.7	29.5	13	22	26	0.8	
3.0	29.5	14.5	21.5	26	0.8	
3.3	29.5	15.5	22.5	26	0.8	

## 外形尺寸 Dimensions (mm)

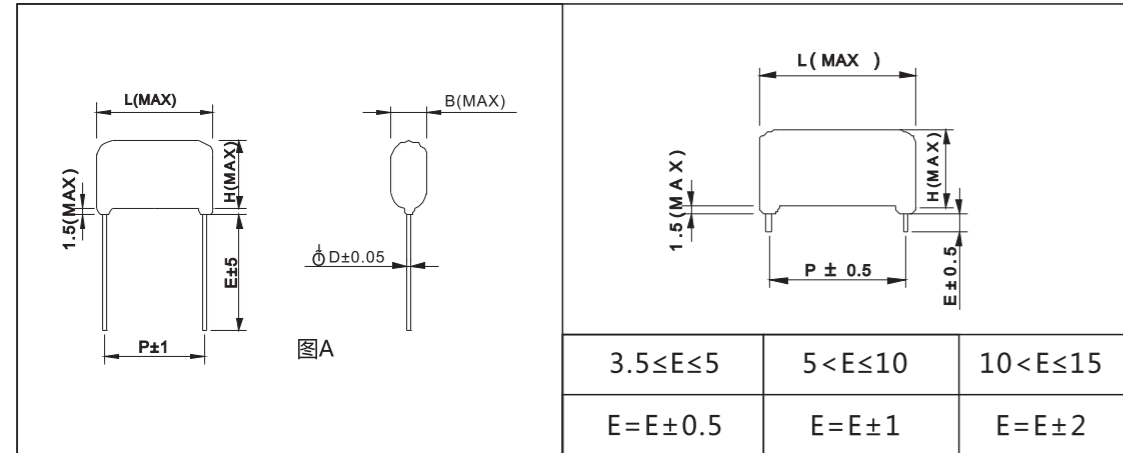
## 250VAC

	C <sub>n</sub> (μF)	L	B	H	P	D
CBB21 series	3.9	29.5	16.5	24.0	26	0.8
	4.0	29.5	17	24.0	26	0.8
	4.7	29.5	17.5	26.5	26	0.8
	1.8	31	10	17.0	27	0.8
	2.0	31	11	20	27	0.8
	2.2	31	12.5	19.5	27	0.8
	2.7	31	13.5	21.0	27	0.8
	3.0	31	13.6	22.5	27	0.8
	3.3	31	14.5	23.5	27	0.8
	2.0	35	10.5	17.5	31	0.8
	2.2	35	11	18	31	0.8
	2.7	35	12	19.5	31	0.8
	3.0	35	14	19.5	31	0.8
	3.3	35	13.5	21.0	31	0.8
	3.9	35	15	22.0	31	0.8
	4.0	35	15	22.0	31	0.8
	4.7	35	16.5	23.5	31	0.8
	5.0	35	16.5	26.0	31	0.8
	5.6	35	18	25.0	31	0.8
	6.0	35	18.5	25.5	31	0.8
	6.8	35	19	28.0	31	0.8

### 高压金属化聚丙烯膜电容器

High-voltage metallized polypropylene film capacitor

#### 外形图 Outline drawing



#### 特点

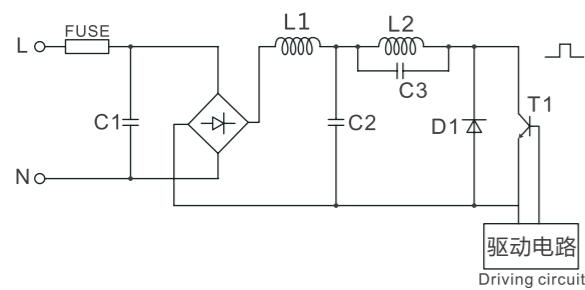
- 金属化聚丙烯膜，卷绕结构
- 损耗小，内部升温小
- 负电容量温度系数
- 阻燃环氧粉末包封 (UL94/V-0)

#### 主要用途

- 大屏幕显示器及彩电行逆程电路
- 适用于高脉冲，大电流电路
- 适用于电子镇流器

#### 典型线路图

Typical circuit



C1:跨线电容  
Across-the-line capacitor

#### Features

- Metallized polypropylene film, wound construction
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Flame retardant epoxy resin powder coating (UL94/V-0)

#### Typical application

- Horizontal resonance circuits of large screen monitor and colour TV
- Suitable for high pulse and high current loading circuit
- Suitable for electronic ballast

### 技术要求 Specifications

引用标准Reference Standard	GB/T 14579(IEC 60384-17)					
气候类别Climatic Category	40/105/21					
额定温度Rated Temperature	85°C					
工作温度Operating Temperature	-40°C~105°C(+85°C to 105°C:decreasing factor 1.25% per °C for UR)					
额定电压Rated Voltage	630V、800V、250V、1000V/1250V、1600V、2000V、2500V					
电容量范围Capacitance Range	0.010μF~10μF					
电容量偏差Capacitance Tolerance	±5% ( J )、±10% ( K )、±20% ( M )					
耐电压Voltage Proof	1.8UR(10S)					
损耗角正切Dissipation Factor						
绝缘电阻Insulation Resistance						
最大脉冲爬升速度Maximum Pulse Rise Time(dV/dt):若实际工作电压U比额定电压UR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UR/U If the working voltage (U) is lower than the rated voltage (UR), 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 UR/U	UR(V)	dV/dt(V/μs)				
		P=15	P=22	P=31		
	1000/1200	30000				
	1600/2000	36000	---	---		

外形尺寸 Dimensions (mm)

1000VDC

	C <sub>n</sub> (μF)	L	B	H	P	D
CBB81 miniature series	0.033	18	8	13.5	15.0	0.8
	0.039	18	8.5	14.0	15.0	0.8
	0.047	18	9	15.0	15.0	0.8
	0.056	18	10	15.5	15.0	0.8
	0.068	18	11	16.5	15.0	0.8
	0.082	18	11.5	17.5	15.0	0.8
	0.056	26	8	13.5	22.5	0.8
	0.068	26	8.5	14.5	22.5	0.8
	0.082	26	9.5	15.0	22.5	0.8
	0.10	26	10.5	16.0	22.5	0.8
	0.12	26	11	17.0	22.5	0.8
	0.15	26	12.5	18.0	22.5	0.8
	0.18	26	13.5	19.0	22.5	0.8
	0.22	26	15	20.5	22.5	0.8
	0.27	26	16	22.0	22.5	0.8
	0.30	26	17	23.0	22.5	0.8
	0.10	30	9	14.5	27.5	0.8
	0.12	30	10	15.5	27.5	0.8
	0.15	30	11	16.5	27.5	0.8
	0.18	30	11.5	17.5	27.5	1.0
0.22	30	13	18.5	27.5	1.0	
0.27	30	13.5	20.5	27.5	1.0	
0.30	30	14	21.5	27.5	1.0	
0.33	30	14.5	22.0	27.5	1.0	
0.39	30	16	23.0	27.5	1.0	
0.47	30	17.5	25.0	27.5	1.0	

外形尺寸 Dimensions (mm)

1200VDC

	C <sub>n</sub> (μF)	L	B	H	P	D
CBB81 miniature series	0.015	18.0	7	13.0	15.0	0.8
	0.018	18.0	7.5	13.5	15.0	0.8
	0.022	18.0	8.5	14.0	15.0	0.8
	0.027	18.0	9	15.0	15.0	0.8
	0.030	18.0	9.5	15.0	15.0	0.8
	0.033	18.0	10	15.5	15.0	0.8
	0.047	26.0	9.5	15.0	22.5	0.8
	0.056	26.0	10	15.5	22.5	0.8
	0.068	26.0	11	16.5	22.5	0.8
	0.082	26.0	12	17.5	22.5	0.8
	0.10	26.0	12.5	19.5	22.5	0.8
	0.12	26.0	13.5	20.5	22.5	0.8
	0.15	26.0	15	22.0	22.5	0.8
	0.18	26.0	16	23.5	22.5	0.8
	0.10	30.0	10.5	18.0	27.5	0.8
	0.12	30.0	11.5	18.5	27.5	0.8
	0.15	30.0	13	20.5	27.5	0.8
	0.18	30.0	14	21.0	27.5	0.8
	0.22	30.0	15.5	22.5	27.5	0.8
	0.27	30.0	17	24.5	27.5	0.8
0.30	30.0	18	25.5	27.5	0.8	

外形尺寸 Dimensions (mm)

1600VDC

CBB81 miniature series	C <sub>n</sub> (μF)	L	B	H	P	D
	0.010	18	7.6	13.5	15.0	0.8
0.012	18	8	14.0	15.0	0.8	
0.015	18	9	15.0	15.0	0.8	
0.018	18	10	15.5	15.0	0.8	
0.022	26	8	15.0	22.5	0.8	
0.027	26	8.5	16.0	22.5	0.8	
0.030	26	9	16.5	22.5	0.8	
0.033	26	9.5	17.0	22.5	0.8	
0.039	26	10.5	17.5	22.5	0.8	
0.047	26	11	18.5	22.5	0.8	
0.056	26	12.5	19.5	22.5	0.8	
0.068	26	13.5	21.0	22.5	0.8	
0.082	26	15	22.0	22.5	0.8	
0.068	30	11.6	19.0	27.5	0.8	
0.082	30	13	20.0	27.5	0.8	
0.10	30	14	21.0	27.5	0.8	
0.12	30	15.5	22.5	27.5	0.8	
0.15	30	17	24.5	27.5	1.0	
0.18	30	18.5	26.0	27.5	1.0	

外形尺寸 Dimensions (mm)

2000VDC

CBB81 miniature series	C <sub>n</sub> (μF)	L	B	H	P	D
	0.0068	18	8	13.5	15.0	0.8
0.0082	18	8.5	14.0	15.0	0.8	
0.010	18	9.5	15.0	15.0	0.8	
0.012	18	10	15.5	15.0	0.8	
0.010	26	7	13.0	22.5	0.8	
0.012	26	7.5	13.5	22.5	0.8	
0.015	26	8.5	14.0	22.5	0.8	
0.018	26	9	15.0	22.5	0.8	
0.022	26	10	16.0	22.5	0.8	
0.027	26	11	16.5	22.5	0.8	
0.030	26	11.5	17.0	22.5	0.8	
0.033	26	12	18.0	22.5	0.8	
0.039	26	13	18.5	22.5	0.8	
0.047	26	14.5	20.0	22.5	0.8	
0.056	26	16	21.5	22.5	0.8	
0.033	30	10.5	16.5	27.5	0.8	
0.039	30	11.5	17.0	27.5	0.8	
0.047	30	12.5	18.0	27.5	0.8	
0.056	30	13.5	19.5	27.5	0.8	
0.068	30	15	20.5	27.5	0.8	
0.082	30	15.5	23.0	27.5	0.8	
0.10	30	17.5	24.5	27.5	0.8	
0.12	30	19	26.5	27.5	0.8	



外形尺寸 Dimensions (mm)

1000VDC

Cn(μF)	L	B	H	P	D
0.0033	19	6	11.5	15.0	0.8
0.0039	19	7	13.0	15.0	0.8
0.0047	19	8	13.0	15.0	0.8
0.0056	19	8.5	13.5	15.0	0.8
0.0068	19	9	14.5	15.0	0.8
0.0082	19	7.5	13.0	15.0	0.8
0.010	19	8	13.0	15.0	0.8
0.012	19	8.5	13.5	15.0	0.8
0.015	19	9	14.5	15.0	0.8
0.018	19	9	14.5	15.0	0.8
0.022	19	11	16.5	15.0	0.8
0.022	26	8	13.5	22.0	0.8
0.027	26	8.5	14.0	22.0	0.8
0.030	26	9	14.5	22.0	0.8
0.033	26	9.5	14.5	22.0	0.8
0.039	26	10	15.5	22.0	0.8
0.047	26	9	17.5	22.0	1.0
0.056	26	10	20.5	22.0	0.8
0.068	26	10	19.5	22.0	1.0
0.082	26	13.5	20.0	22.0	1.0
0.10	26	13.5	23.0	22.0	1.0
0.10	34	8.5	15.5	31.0	1.0
0.12	34	10	16.5	31.0	1.0
0.15	34	11	17.5	31.0	1.0
0.18	34	12	18.5	31.0	1.0
0.22	34	12.5	19.5	31.0	1.0
0.27	34	14.5	21.0	31.0	1.0
0.30	34	15	22.0	31.0	1.0
0.33	34	16	23.0	31.0	1.0
0.39	34	17.5	24.0	31.0	1.0
0.47	34	17.5	27.5	31.0	1.0

CBB81 standard series

外形尺寸 Dimensions (mm)

1200VDC

Cn(μF)	L	B	H	P	D
0.0022	19.0	6.5	12.5	15.0	0.8
0.0027	19.0	6.5	12.5	15.0	0.8
0.0030	19.0	7.5	12.5	15.0	0.8
0.0033	19.0	7.5	13.5	15.0	0.8
0.0039	19.0	8	13.5	15.0	0.8
0.0047	19.0	9	14.0	15.0	0.8
0.0056	19.0	9.5	15.0	15.0	0.8
0.0068	19.0	9	14.5	15.0	0.8
0.0082	19.0	7.5	12.5	15.0	0.8
0.010	19.0	7.5	13.5	15.0	0.8
0.012	19.0	8.5	13.5	15.0	0.8
0.015	19.0	9	14.5	15.0	0.8
0.018	19.0	10	15.0	15.0	0.8
0.010	26.0	10	15.0	22.0	0.8
0.012	26.0	7.5	13.0	22.0	0.8
0.015	26.0	8.5	14.0	22.0	0.8
0.018	26.0	9	14.5	22.0	0.8
0.022	26.0	8	13.5	22.0	1.0
0.027	26.0	8.5	14.0	22.0	0.8
0.030	26.0	9	14.5	22.0	0.8
0.033	26.0	9	16.0	22.0	0.8
0.047	26.0	10.5	17.0	22.0	0.8
0.056	26.0	11	18.0	22.0	0.8
0.068	26.0	12.5	19.0	22.0	0.8
0.082	26.0	13.5	20.5	22.0	1.0
0.10	26.0	14	22.5	22.0	1.0
0.10	34.0	9	16.0	31.0	1.0
0.12	34.0	10	16.5	31.0	1.0
0.15	34.0	11	17.5	31.0	1.0
0.18	34.0	12	19.0	31.0	1.0
0.22	34.0	13	20.0	31.0	1.0
0.27	34.0	14.5	21.5	31.0	1.0
0.30	34.0	13.5	24.0	31.0	1.0
0.33	34.0	16	23.0	31.0	1.0
0.39	34.0	17.5	24.0	31.0	1.0
0.47	34.0	17	27.5	31.0	1.0

CBB81 standard series



外形尺寸 Dimensions (mm)

1600VDC

C <sub>n</sub> (μF)	L	B	H	P	D
0.0033	19	7	13.0	15.0	0.8
0.0039	19	7	12.5	15.0	0.8
0.0047	19	7.5	13.0	15.0	0.8
0.0056	19	7	12.5	15.0	0.8
0.0068	19	7.5	13.5	15.0	0.8
0.0082	19	7.5	13.0	15.0	0.8
0.0100	19	7.5	13.0	15.0	0.8
0.0120	19	8.5	14.0	15.0	0.8
0.0150	19	9.5	15.0	15.0	0.8
0.0180	19	9.5	16.0	15.0	0.8
0.0220	19	11	16.5	15.0	0.8
0.0270	19	12	17.5	15.0	0.8
0.010	26	7	11.5	22.0	0.8
0.012	26	8.5	13.5	22.0	0.8
0.015	26	9	14.5	22.0	0.8
0.018	26	10	15.0	22.0	0.8
0.022	26	9.5	18.0	22.0	0.8
0.027	26	8.5	14.0	22.0	0.8
0.030	26	9	14.5	22.0	0.8
0.033	26	9.5	14.5	22.0	0.8
0.039	26	10	10.5	22.0	0.8
0.047	34	10.5	17.0	22.0	0.8
0.056	26	11	18.0	22.0	0.8
0.068	26	12.5	19.0	22.0	0.8
0.082	26	12.5	21.0	22.0	1.0
0.10	26	14	22.5	22.0	1.0
0.12	26	15.5	24.0	22.0	1.0
0.10	34	11	19.0	31.0	1.0
0.12	34	12.5	19.5	31.0	1.0
0.15	34	13	21.0	31.0	1.0
0.18	34	15.5	22.0	31.0	1.0
0.22	34	16	24.5	31.0	1.0
0.27	34	18.5	25.5	31.0	1.0
0.30	34	22	26.5	31.0	1.0

CBB81 standard series

外形尺寸 Dimensions (mm)

2000VDC

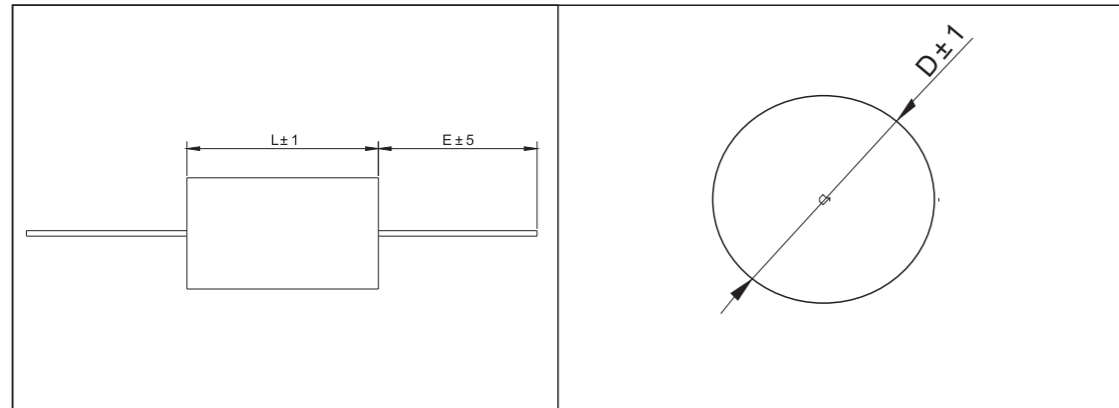
C <sub>n</sub> (μF)	L	B	H	P	D
0.0039	19.0	7	12.5	15.0	0.8
0.0047	19.0	6.5	12.5	15.0	0.8
0.0056	19.0	7	12.5	15.0	0.8
0.0068	19.0	7.5	13.0	15.0	0.8
0.0082	19.0	8	13.5	15.0	0.8
0.0068	26	8.5	13.5	22.0	0.8
0.0082	26	9	14.0	22.0	0.8
0.010	26	7	13.0	22.0	0.8
0.012	26	7.5	13.0	22.0	0.8
0.015	26	9	14.5	22.0	0.8
0.018	26	9	14.0	22.0	0.8
0.022	26	10	15.0	22.0	1.0
0.027	26	11	16.0	22.0	0.8
0.030	26	11.5	16.5	22.0	0.8
0.033	26	9.5	14.5	22.0	0.8
0.039	26	13	18.0	22.0	0.8
0.047	26	11	16.5	22.0	0.8
0.10	34	11	19.0	31.0	1.0
0.12	34	12.5	19.5	31.0	1.0
0.15	34	14	21.0	31.0	1.0
0.18	34	15.5	22.0	31.0	1.0
0.22	34	16.5	24.5	31.0	1.0
0.27	34	18.5	22.5	31.0	1.0
0.30	34	20	26.5	31.0	1.0
0.33	34	20	28.5	31.0	1.0

CBB81 standard series

## 轴向金属化聚丙烯膜电容器

Metallized polypropylene film capacitor(Axial-type)

## 外形图 Outline drawing



## 特点

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

## Features

Metalized Polypropylene film, non-inductive type, axial  
Excellent self-healing property  
Wrapped with polyester adhesive tape and ends filled with Flame Retardant epoxy resin

## 主要用途

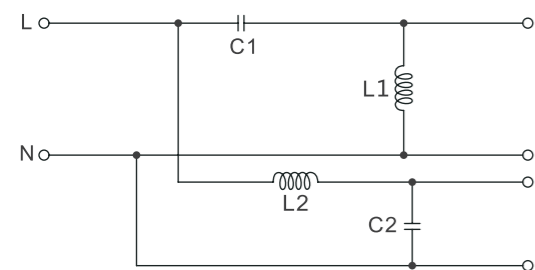
温度补偿电路  
定时、振荡电路  
功率因素校正，开关电源耦合用

## Typical application

Temperature compensation circuits  
Timing oscillator circuits  
Power factor correction and coupling capacitor in SMPS application

## 典型线路图

Typical circuit



C1, C2: 分频电容  
Audio frequency division capacitor

## 技术要求 Specifications

引用标准Reference Standard	GB/T 14579(IEC 60384-17)							
气候类别Climatic Category	40/85/21							
额定温度Rated Temperature	85°C							
额定电压Rated Voltage	100V、160V、250V、400V、630V、1000V、1250V							
电容范围Capacitance Range	0.010μF~47μF							
电容偏差Capacitance Tolerance	±5% ( J )、±10% ( K )、±20% ( M )							
耐电压Voltage Proof	1.8UR(10S)							
损耗角正切Dissipation Factor	≤10×10 <sup>-4</sup> (1KHz,20°C)							
绝缘电阻Insulation Resistance	≥100000MΩ, CN≤0.33μF ≥30000s, CN>0.33μF (20°C,100V,1min)							
最大脉冲爬升速度Maximum Pulse Rise Time(dV/dt):若实际工作电压U比额定电压UR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UR/U。If the working voltage (U) is lower than the rated voltage (UR), 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 UR/U	UR(V)	dV/dt(V/μs)						
		L=12.0	L=14.5	L=20.0	L=27.5	L=33	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	

## 外形尺寸 Dimensions (mm)

250VDC					
C <sub>n</sub> (μF)	L	D	d		
1.0	19	11.5	0.8		
1.2	19	12.5	0.8		
1.5	19	13.5	0.8		
1.8	19	15.0	0.8		
1.5	25	11.5	0.8		
1.8	25	12.5	0.8		
2.0	25	13.0	0.8		
2.2	25	16.5	0.8		
2.7	25	15.0	0.8		
3.0	25	15.5	0.8		
3.3	25	16.0	0.8		
3.9	25	17.5	0.8		
4.0	25	17.5	0.8		
2.0	31	11.0	0.8		
2.2	31	11.5	0.8		
2.7	31	12.5	0.8		
3.0	31	13.0	0.8		
3.3	31	14.0	0.8		
3.9	31	15.0	0.8		
4.0	31	15.0	0.8		
4.7	31	16.0	0.8		
5.0	31	16.5	0.8		
5.6	31	17.5	0.8		
6.0	31	18.0	0.8		
6.8	31	19.0	0.8		
7.0	31	19.5	0.8		
8.2	31	21.5	0.8		
10.0	31	23.0	0.8		
3.0	36	12.0	0.8		
3.3	36	12.5	0.8		
3.9	36	13.5	0.8		
4.0	36	13.5	0.8		
4.7	36	14.5	0.8		
5.0	36	15.0	0.8		
5.6	36	16.0	0.8		
6.0	36	16.5	0.8		
6.8	36	17.5	0.8		
7.0	36	18.0	0.8		
8.2	36	19.0	0.8		
10.0	36	21.0	0.8		
12.0	36	22.5	0.8		
15.0	36	25.5	1.0		
6	36	14.0	0.8		

CBB20  
series

## 外形尺寸 Dimensions (mm)

250VDC					
C <sub>n</sub> (μF)	L	D	d		
6.8	46	15.0	0.8		
7	46	15.0	0.8		
8.2	46	16.0	0.8		
10	46	18.0	1.0		
12	46	19.5	1.0		
15	46	21.5	1.0		
18	46	23.5	1.0		
20	46	25.0	1.0		
22	46	26.0	1.0		
25	46	27.5	1.0		
30	46	30.0	1.0		
33	46	31.5	1.0		
40	46	34.5	1.0		
47	46	37.5	1.0		
10	47	18.0	1.0		
12	47	19.5	1.0		
15	47	21.5	1.0		
18	47	24.0	1.0		
20	47	25.0	1.0		
22	47	26.0	1.0		
25	47	27.5	1.0		
30	47	30.0	1.0		
33	47	31.5	1.0		

CBB20  
series



## 外形尺寸 Dimensions (mm)

## 400VDC

C <sub>n</sub> (μF)	L	D	d
0.47	19	11.5	0.8
0.56	19	13.0	0.8
0.68	19	12.0	0.8
0.82	19	13.0	0.8
1	19	14.0	1.0
1	25	12.0	0.8
1.2	25	12.5	0.8
1.5	25	14.0	0.8
1.8	25	15.0	0.8
2.2	25	16.5	1.0
2.7	25	18.5	0.8
3	25	19.0	0.8
3.3	25	20.0	1.0
3.3	31	17.0	0.8
3.9	31	18.5	0.8
4	31	18.5	0.8
4.7	31	20.0	1.0
5	31	20.5	1.0
5.6	31	26.0	0.8
6	31	22.5	0.8
6.8	31	24.0	0.8
7	31	24.5	0.8
8.2	31	26.0	1.0
3.9	36	17.0	0.8
4	36	17.0	0.8
4.7	36	18.0	0.8
5	36	19.0	0.8
5.6	36	20.0	0.8
6	36	20.5	0.8
6.8	36	21.5	0.8
7	36	22.0	0.8
8.2	36	23.5	1.0
10	36	26.0	1.0
12	36	28.0	1.0
12	46	24.0	1.0
15	46	27.0	1.0
18	46	29.5	1.0
20	46	31.0	1.0
22	46	32.5	1.0
12	47	24.5	1.0
15	47	27.0	1.0
18	47	30.0	1.0
20	47	31.5	1.2
22	47	32.5	1.2

CBB20  
series

## 外形尺寸 Dimensions (mm)

## 630VDC

C <sub>n</sub> (μF)	L	D	d
0.39	25	11.0	0.8
0.47	25	11.5	0.8
0.56	25	12.0	0.8
0.68	25	13.0	0.8
0.82	25	14.5	0.8
1	25	15.5	0.8
1.2	25	17.0	0.8
2.2	36	18.0	0.8
2.7	36	19.5	0.8
3	36	20.5	0.8
3.3	36	21.5	0.8
3.9	36	23.5	0.8
4	36	23.5	0.8
4.7	36	25.5	0.8
6.8	46	25.5	1.0
7	46	26.0	1.0
8.2	46	28.5	1.0
10	46	31.0	1.0
12	46	34.0	1.0
15	46	44.0	1.5

CBB20  
series

## 外形尺寸 Dimensions (mm)

## 250VAC

	C <sub>n</sub> (μF)	L	D	d	
CBB20 series	1	31	11.5	0.8	
	1.2	31	11.0	0.8	
	1.5	31	12.0	0.8	
	1.8	31	13.0	0.8	
	2	31	13.5	0.8	
	2.2	31	14.5	0.8	
	2.7	31	15.5	0.8	
	3	31	16.0	0.8	
	3.3	31	17.0	0.8	
	3.9	31	18.5	0.8	
	4	31	18.5	0.8	
	4.7	31	20.0	0.8	
	5	31	21.0	0.8	
	5.6	31	22.0	0.8	
	5.6	36	19.5	0.8	
	6	36	20.5	0.8	
	6.8	36	21.5	0.8	
	7	36	22.0	0.8	
	8.2	36	23.5	1.0	
	4.7	46	15.5	0.8	
5	46	16.0	0.8		
5.6	46	17.0	0.8		
6	46	17.5	0.8		
6.8	46	18.5	0.8		
7	46	19.0	0.8		
8.2	46	20.5	1.0		
10	46	22.0	1.0		
12	46	24.0	1.0		
15	46	27.0	1.0		
20	56	33.0	1.0		

## 275VAC

	C <sub>n</sub> (μF)	L	D	d	
CBB20 series	15	46	27.0	1.0	
	10	56	20.0	1.0	
	15	56	24.0	1.0	
	20	56	27.5	1.0	
	40	60	38.5	1.0	

## 外形尺寸 Dimensions (mm)

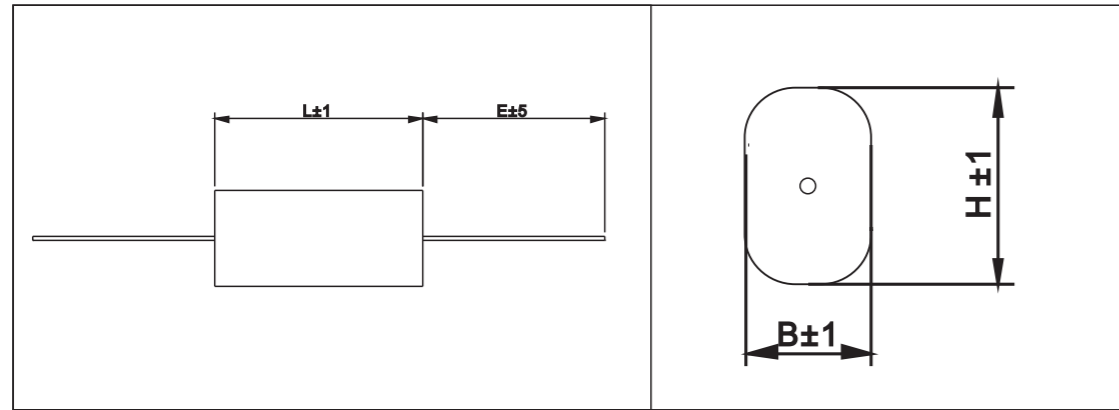
## 250VDC

	C <sub>n</sub> (μF)	L	B	H	D	
CBB20 series	1.2	25	7.0	12.0	0.8	
	1.5	25	8.5	13.0	0.8	
	1.8	25	8.5	15.0	0.8	
	2	25	9.0	15.5	0.8	
	2.2	25	9.5	16.0	0.8	
	2.7	25	11.0	17.0	0.8	
	1.8	31	7.0	13.0	0.8	
	2	31	8.0	12.5	0.8	
	2.2	31	8.5	13.0	0.8	
	2.7	31	9.0	15.0	0.8	
	3	31	9.5	15.5	0.8	
	3.3	31	9.5	17.0	0.8	
	3.9	31	11.0	17.5	0.8	
	4	31	10.5	18.5	0.8	
	4.7	31	12.0	18.5	0.8	
	5	31	13.0	19.0	0.8	
	5.6	31	13.5	20.0	0.8	
	6	31	11.5	24.0	0.8	
	6.8	31	15.5	21.5	0.8	
	3	36	8.5	14.5	0.8	
3.3	36	8.5	15.0	0.8		
3.9	36	9.5	16.0	0.8		
4	36	10.0	16.0	0.8		
4.7	36	11.0	17.0	0.8		
5	36	12.5	17.5	0.8		

## 轴向金属化聚丙烯膜电容器

Metallized polypropylene film capacitor(Axial-type)

## 外形图 Outline drawing



## 特点

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

## Features

Metalized Polypropylene film, non-inductive type, axial  
Excellent self-healing property  
Wrapped with polyester adhesive tape and ends filled with Flame Retardant epoxy resin

## 主要用途

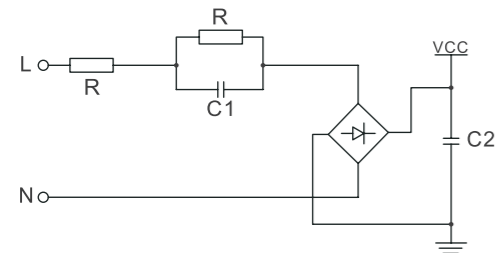
温度补偿电路  
定时、振荡电路  
功率因素校正，开关电源耦合用

## Typical application

Temperature compensation circuits  
Timing oscillator circuits  
Power factor correction and coupling capacitor in SMPS application

## 典型线路图

Typical circuit



C2:滤波电容  
Filter capacitor

## 技术要求 Specifications

引用标准Reference Standard	GB/T 14579(IEC 60384-17)							
气候类别Climatic Category	40/85/21							
额定温度Rated Temperature	85°C							
额定电压Rated Voltage	100V、160V、250V、400V、630V、1000V、1250V							
电容量范围Capacitance Range	0.010μF~47μF							
电容量偏差Capacitance Tolerance	±5% ( J )、±10% ( K )、±20% ( M )							
耐电压Voltage Proof	1.8UR(10S)							
损耗角正切Dissipation Factor	≤10×10 <sup>-4</sup> (1KHz,20°C)							
绝缘电阻Insulation Resistance	≥100000MΩ, CN≤0.33μF ≥30000s, CN>0.33μF (20°C,100V,1min)							
最大脉冲爬升速度Maximum Pulse Rise Time(dV/dt):若实际工作电压U比额定电压UR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UR/U。If the working voltage (U) is lower than the rated voltage (UR), 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 UR/U	UR(V)	dV/dt(V/μs)						
		L=12.0	L=14.5	L=20.0	L=27.5	L=33	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

## 外形尺寸 Dimensions (mm)

## 400VDC

	C <sub>n</sub> (μF)	L	B	H	D
CBB20 series	0.82	25	7.5	12.5	0.8
	1	25	8.5	13.5	0.8
	1.2	25	9.5	14.5	0.8
	1.5	25	11.0	15.5	0.8
	1.8	25	12.0	17.0	0.8
	1	31	7.0	11.5	0.8
	1.2	31	8.0	12.5	0.8
	1.5	31	8.0	14.5	0.8
	1.8	31	9.0	15.5	0.8
	2	31	10.0	16.0	0.8
	2.2	31	10.5	16.5	0.8
	2.7	31	11.5	18.0	0.8
	3	31	12.5	18.0	0.8
	3.3	31	13.0	19.5	0.8
	3.9	31	14.5	21.0	0.8
	4	31	15.0	21.0	0.8
	1.8	36	8.0	14.0	0.8
	2	36	8.5	15.0	0.8
	2.2	36	9.0	15.5	0.8
	2.7	36	10.0	16.5	0.8
	3	36	11.0	17.0	0.8
	3.3	36	11.5	18.0	0.8
	3.9	36	13.0	19.0	0.8
	4	36	13.0	19.0	0.8
	4.7	36	14.0	20.5	0.8
	5	36	14.0	22.0	0.8
	5.6	36	16.0	22.0	0.8
	6	36	16.5	22.5	0.8
	6.8	36	16.0	25.5	1

## 外形尺寸 Dimensions (mm)

## 630VDC

	C <sub>n</sub> (μF)	L	B	H	D
CBB20 series	0.33	25	6.5	11.5	0.8
	0.39	25	7.5	12	0.8
	0.47	25	8.5	13	0.8
	0.56	25	9	14	0.8
	0.68	25	10.5	15	0.8
	0.82	25	11.2	16	0.8
	1	25	13	17.5	0.8
	0.68	31	8.5	13.5	0.8
	0.82	31	9.5	14.5	0.8
	1	31	11	15.5	0.8
	1.2	31	12	16.5	0.8
	1.5	31	13	19	0.8
	1.8	31	14	20.5	0.8
	2	31	15	21.5	0.8
	0.82	36	7.5	14	0.8
	1	36	8.5	15	0.8
	1.2	36	9.5	16	0.8
	1.5	36	11	17.5	0.8
	1.8	36	12.5	18.5	0.8
	2	36	13	19.5	0.8
	2.2	36	14	20	0.8
	2.7	36	15.5	22	0.8
	3	36	16.5	23	0.8

## 外形尺寸 Dimensions (mm)

## 250VAC

	C <sub>n</sub> (μF)	L	B	H	D
CBB20 series	0.82	25	7.5	12.5	0.8
	1	25	8.5	13.5	0.8
	1.2	25	9.0	15.0	0.8
	1.5	25	10.0	16.5	0.8
	1.8	25	11.5	17.5	0.8
	1.8	31	9.0	15.5	0.8
	2	31	10.0	16.0	0.8
	2.2	31	10.5	16.5	0.8
	2.7	31	11.0	19.0	0.8
	3	31	11.5	19.5	0.8
	3.3	31	13.0	19.5	0.8
	1.5	36	7.0	13.5	0.8
	1.8	36	8.0	14.0	0.8
	2	36	8.5	15.0	0.8
	2.2	36	9.0	15.5	0.8
	2.7	36	10.5	16.5	0.8
	3	36	11.0	17.0	0.8
	3.3	36	11.5	18.0	0.8
	3.9	36	13.0	19.0	0.8
	4	36	12.0	20.0	0.8
	4.7	36	14.0	20.5	0.8
	5	36	14.0	22.0	0.8
	5.6	36	16.0	22.0	0.8
	6	36	15.5	23.5	0.8
	6.8	36	16.0	25.5	0.8
	7	36	16.5	26.0	1
	8.2	36	19.5	26.0	1
	2	46	7.5	12.5	0.8
	2.2	46	7.5	13.5	0.8
	2.7	46	8.5	14.5	0.8
	3	46	9.0	15.0	0.8
	3.3	46	9.5	15.5	0.8
	3.9	46	10.5	16.5	0.8
4	46	10.0	18.0	0.8	
4.7	46	11.5	18.0	0.8	
5	46	11.5	19.0	0.8	
5.6	46	13.0	19.0	0.8	

## 外形尺寸 Dimensions (mm)

## 300VAC

	C <sub>n</sub> (μF)	L	B	H	D
CBB20 series	0.68	25	8.5	13.0	0.8
	0.82	25	9.5	14.0	0.8
	4	25	8.5	13.5	0.8
	0.82	31	7.5	12.5	0.8
	1	31	7.0	11.5	0.8
	1.2	31	8.0	12.5	0.8
	1.5	31	8.0	14.5	0.8
	1.8	31	9.0	15.5	0.8
	2	31	10.0	16.0	0.8
	2.2	31	13.0	19.0	0.8
	2.7	31	14.5	21.0	0.8
	3	31	12.5	18.5	0.8
	3.3	31	16.5	22.5	0.8
	1.5	36	7.5	12.5	0.8
	1.8	36	8.0	14.0	0.8
	2	36	9.0	14.0	0.8
	2.2	36	9.5	14.5	0.8
	2.7	36	11.0	15.5	0.8
	3	36	11.0	17.0	0.8
	3.3	36	11.5	18.0	0.8
	3.9	36	13.0	19.0	0.8
	4	36	12.5	20.0	0.8
	4.7	36	14.0	20.5	0.8
	5	36	14.0	22.0	0.8
	5.6	36	16.0	22.0	0.8
	6	36	15.5	23.5	0.8
	6.8	36	16.0	25.5	0.8
	7	36	16.5	26.0	1.0