CAPACITOR CATALOG 手册目录

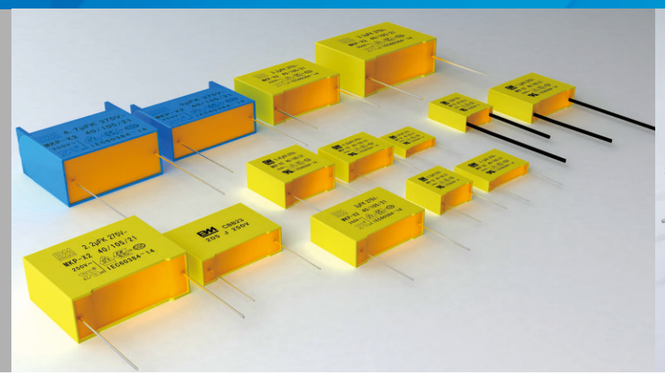
安规包封分册

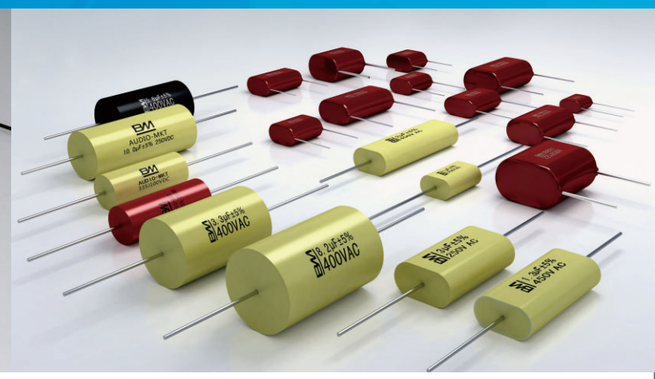
X2/CBB21

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.

广东省佛山市顺德区北滘镇黄龙村委会龙乐路1号

1 Longle Road,Beijiao Town,ShunDe,FoShan,GuangDong,China

0757-23602982

0757-23608828

x2sale@bm-cap.com

www.bm-cap.com / www.bm-cap.cn

关注丰明
资讯动态

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3.3万平方米，拥有10万平方米高标准化厂房，日产270万只金属化薄膜电容器。

丰明电子分设三大研究中心及八大产品事业部，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

BM always assures you the best service.

丰明电子以“为成功的企业配套，为企业的成功配套”为经营理念，以“专业化为主、 多元化发展”的市场细分方针，陆续和格力、海尔、美的、格兰仕、九阳、苏泊尔、艾美特、开利、亨特、三星、LG等国内外知名品牌建立了良好而持久的合作关系。

“To support a successful enterprise, to support the success of an enterprise.” Fengming hold this operation principle, and stick on specialization and diversification, we established long and stable cooperation with many famous enterprise at home and abroad, such as Gree、 Haier、 Midea、 Galanz、 Joyoung、Supor、 Airmate、 Carrier、 Hunter、Samsung、LG.

三大研究中心　3 Research Centers

- 产品开发中心
- 工艺研究中心
- 实验检测中心

八大产品事业部　8 Product Divisions

- 交流电容器事业部
- 空调电容器事业部
- 60/65电容器事业部
- 安规电容器事业部
- 包封电容器事业部
- 针式电容器事业部
- 工业电容器事业部
- 真空镀膜事业部

广东省著名商标
Famous mark in Guangdong Province

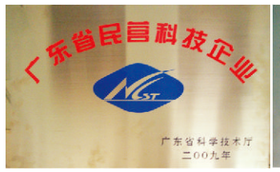
广东省名牌产品
Famous-brand products in Guangdong Province

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

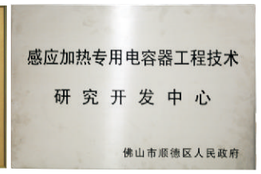
广东省名牌产品
Famous-brand products in Guangdong Province



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
18.广东丰明电子科技有限公司	201520582143. 8	2015-12-09	一种圆芯方壳端子引出型电容器

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 IS09001 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 (CBB62) | 金属化聚丙烯膜抗干扰电容器 (X2) Metallized polypropylene film Interference Suppression capacitor (X2) — 01-06

MKP (CBB62) | 金属化聚丙烯膜抗干扰电容器 (X2 THB系列) Metallized polypropylene film Interference Suppression capacitor (X2 THB series) — 07-08

MKPR (CBB62R) | 金属化聚丙烯膜抗干扰电容器（RC并联） Metallized polypropylene film Interference Suppression capacitor (Parallel RC- Unit) — 09-10

MKP+R (CBB62+R) | 金属化聚丙烯膜抗干扰阻容模块（RC串联） Metallized polypropylene film Interference Suppression(Series RC-Unit) — 11-12

MMKP (CBB23) | 塑料外壳双面金属化聚丙烯膜电容器 Double sided metallized polypropylene film capacitor (Box type) — 13-16

MPP (CBB21) | 金属化聚丙烯膜电容器（粉包型） Metallized polypropylene film capacitor (dipped type) — 17-22

MPHL (CBB81) | 高压金属化聚丙烯膜电容器 (小型化) High-voltage metallized polypropylene film capacitor(miniature series) — 23-26

MPH (CBB81) | 高压金属化聚丙烯膜电容器 High-voltage metallized polypropylene film capacitor — 27-28

MPT (CBB20) | 轴向金属化聚丙烯膜电容器(包胶圆) Metallized polypropylene film capacitor(Axial type) — 29-34

MPA (CBB20) | 轴向金属化聚丙烯膜电容器(包胶扁) Metallized polypropylene film capacitor(Axial type) — 35-38

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 standar , generic pecification, 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）
GB/T 2693-2001 (IEC60384-1:1999)	第1部分：总规范：电子设备用固定电容器 Part1:Foundational standar: Electronic equipment capacitor
GB/T 6346.14-2015 (IEC60384-14)	第14部分：分规范：抑制电源电磁干扰用固定电容器 Part14：Sectional specification：Fixed capacitors for electromagnetic interference suppression and connection to the supply mains
GB/T 10190 (IEC 60384-16)	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 **metalized** polypropylene film **D.C. capacitor**
GB/T 10191 (IEC 60384-16-1)	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 **metalized** polypropylene film **D.C. capacitor**
GB/T 14579 (IEC 60384-17)	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 **metalized** polypropylene film A.C. and pulde capacitor
GB/T 14579 (IEC 60384-17-1)	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 **metalized** polypropylene film A.C. and pulde 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电压

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）

55 / 100 / 56
- 稳态湿热实验的天数
- 上限类别温度
- 下限类别温度

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器的无功功率

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所加的直流电压和流经电容器的漏电流值的比值，单位为MΩ .时间常数为绝缘电阻和电容量的乘积，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).

55 / 100 / 56
- days relevant to the damp heat test(56days)
- the upper category temperature(+100℃)
- The lower category temperature(-55℃)

8. Dissipation factor
The dissipation factor is ratio between reactive power of the impedance of the capacitor and effective power when capacito r is submitted a sinusoidal voltage of specified frequency.

9.Isulation Resistance(I.R)Time Contant(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 isexpressed 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

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

1.Polypropylene Film

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

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

2.Typical Applications

High frequency, pulse applications

High current

A.C. applications

Timing with high stability

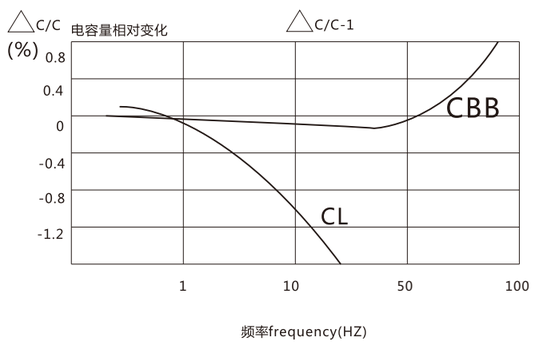
SMPS and TV set

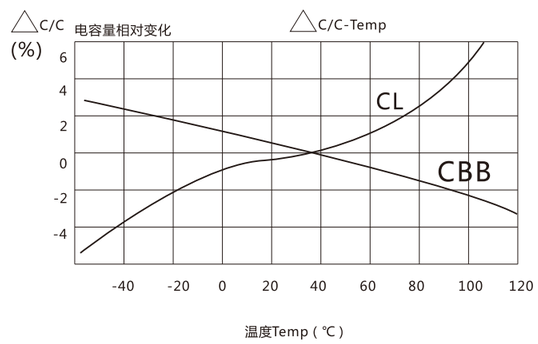
lighting

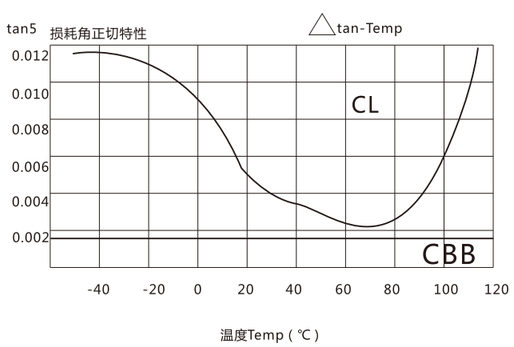
Industrial

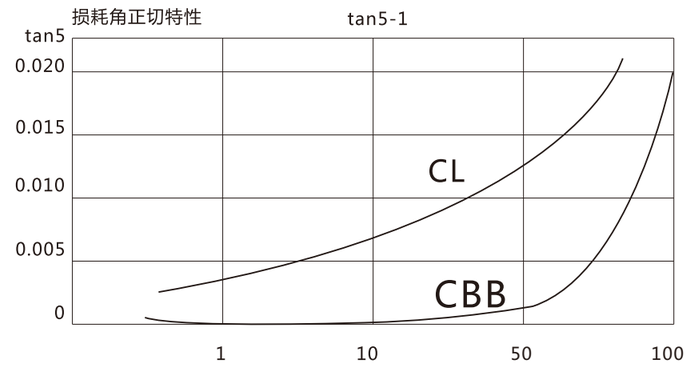
Filtering high Q

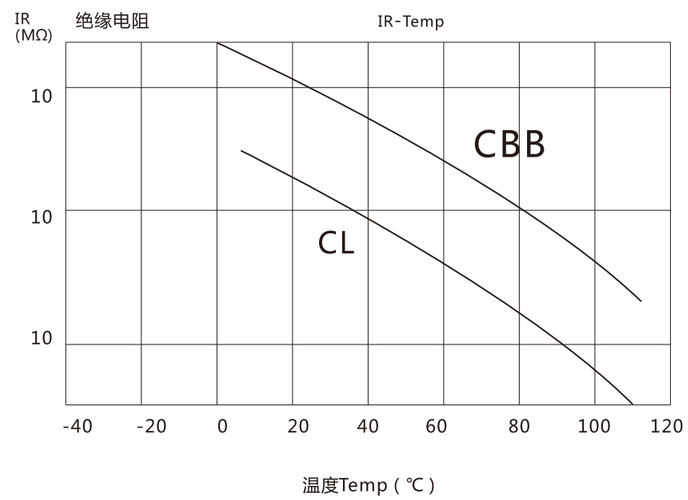
3 特性曲线Typical graphs

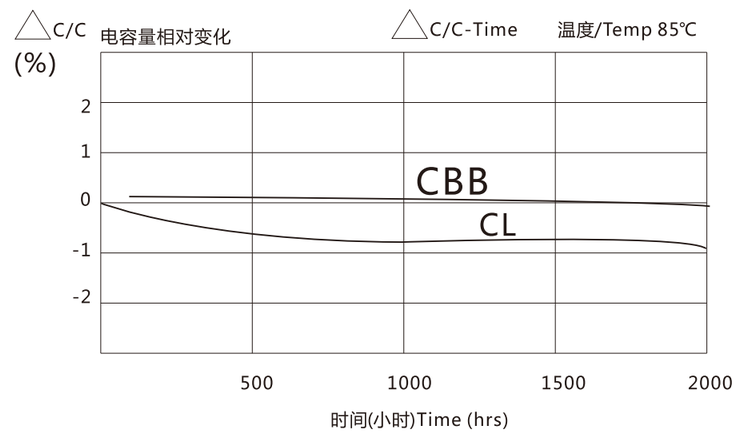












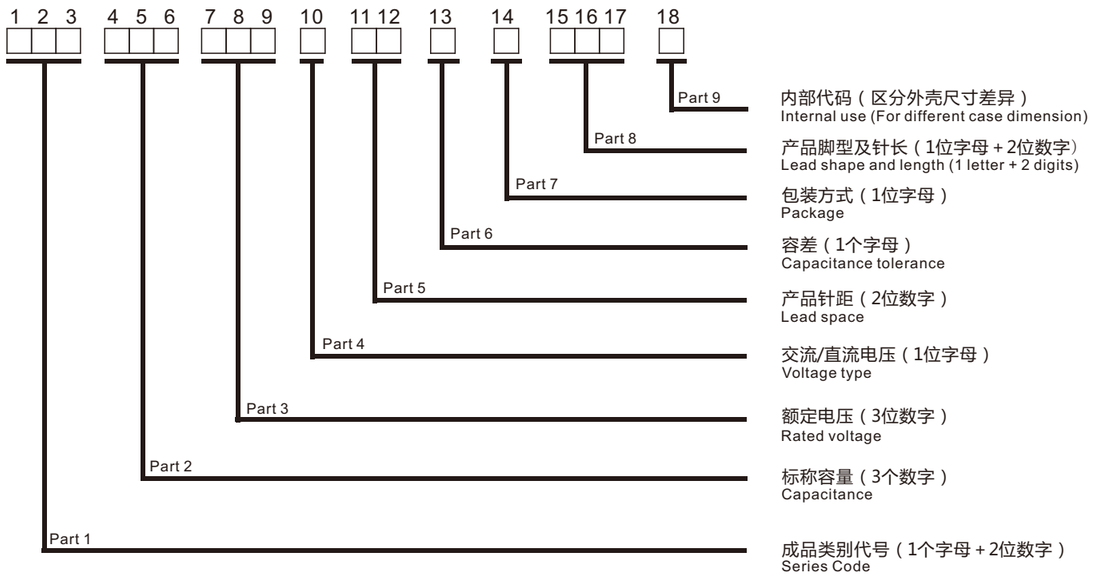
CBB-----聚丙烯薄膜（Polypropylene Film）

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.品号表示方法 Representation

第一部分 Part 1		第二部分 Part 2		第三部分 Part 3	第四部分 Part 4	
型号 Series Code		容量 Capacitance		额定电压 Rated Voltage	电压 Voltage	
代码 Code	类别 Type	代码 Code	计算方法 Calculation	电压 Voltage	代码 Code	类型 Type
B42	安规 X2 级认证 X2	103	$10*10^3$ pF=0.01μF	250 = 250V 275=275V 310=310V 630 = 630V 1K0 = 1000 1K6 = 1600 2K5 = 2500 3K0=3000	D	直流电压 DC Voltage
B4R	安规 X2级认证＋电阻 X2+Resistor	153	$15*10^3$ pF=0.015μF			
B4H	安规 X2 级认证 THB THB X2	104	$10*10^4$ pF=0.1μF			
B21	包封低压产品 Dipped low voltage	154	$15*10^4$ pF=0.15μF		A	交流电压 AC Voltage
B81	包封高压产品 Dipped high voltage	105	$10*10^5$ pF=1μF			
B20	轴向圆形电容 Axial round cap.	155	$10*10^5$ pF=1.5μF			
B19	轴向扁形电容 Axial flat cap.	106	$10*10^6$ pF=10μF			

第五部分 Part 5		第六部分 Part 6		第七部分 Part 7		第八部分 Part 8				第九部分 Part 9
针距 Lead Space		容偏 Capacitance Tolerance		包装 Package		脚型 Lead shape		针长 Lead length		
代码 Code	针距（mm） Space	代码 Code	计算方法 Tolerance	代码 Code	包装方式 Package	代码 Code	类型 Type	代码 Code	针长(mm) Length	
00	轴向电容 Axial	J	±5%	B	散袋包装 Bulk Package	S	直脚 Straight type	03	3-3.9	相同容量、电压不同设计结构、外壳尺寸、用顺序号区分。 Internal Use.
10	10	K	±10%	A	编带弹袋包装 Ammo package	K	K 脚 Standard kink	04	4-4.9	
15	15	M	±20%	R	编带卷轴包装 Reel package	I	内弯 Outside kink	05	5-5.9	
17	17 或 17.5					O	外弯 Inside kink	10	10	
20	20							15	15	
21	21 或 21.5							18	18	
22	22 或 22.5							20	20	
26	26 或 26.5							25	25	
27	27 或 27.5							30	30	
31	31									
37	37 或 37.5									
41	41									

2.认证种类代码对照表 Comparison Table for Certificate and Code

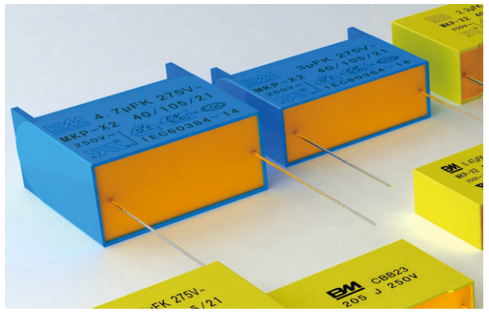
认证代码	CQC	CUL	UL	VDE	KC	CB	ENEC	FIMKO	NEMKO	SEMKO	ESTI
A	√	√	√	√							
B					√	√					
C	√										
D				√							
E			√	√							
F	√			√		√					
G	√	√	√								
H	√		√	√			√				
J	√	√	√	√	√		√				
K	√	√	√	√			√				
K	√	√	√	√			√				
U			√								
L	√		√								
M		√	√								
Q	√			√							
V	√		√	√							
M	√	√	√	√			√	√	√	√	√

金属化聚丙烯膜抗干扰电容器（X2）
Metallized polypropylene film Interference Suppression capacitor（X2）

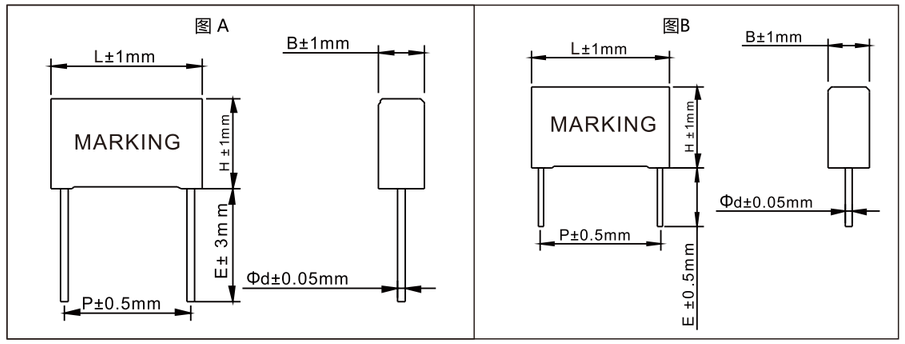
标准系列X2型产品，多国认证，容量可高达10uF，采用高分子聚丙烯薄膜介质、加厚型金属化电极、全自动喷焊工艺、94V0级阻燃PBT塑壳、环氧树脂密封，耐压高、暂态脉冲电压承受能力强。广泛用于电源并联跨线回路，抑制电磁干扰。

- Standard X2 capacitor;
- Safety certificates available, UL, VDE, CQC, KC, ENEC etc;
- Capacitance up to 10uf;
- Metallised polypropylene(MPP) film capacitor;
- 94V0 retardant PBT case;
- Epoxy filling;
- CP wire lead;
- Specially designed for capacitive divider;

Application: EMI (Interference suppression) for parallel loop circuit of power supply.



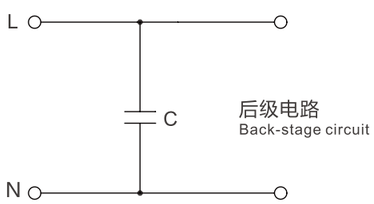
外形图 Outline drawing



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
Withstanging overvoltage stressing
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:抗电磁干扰电容
Interference suppression capacitor

MKP | 安规（CBB62）X2系列 X2 miniature series

安全认证 Safety Approvals

	VDE ENEC	40025702	欧盟
C US	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	IEC 60384-14:2013、GB/T 6346.14-2015、UL60386-14：2009	
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,C_R≤0.33μF ≥5000s, C_R>0.33μF (20℃,100V,1min)	
损耗角正切Dissipation Factor	0.01μF≦C_R<0.47μF	≦10×10^{-4}（1KHz，20℃）
	0.47μF≦C_R≦1 μF	≦20×10^{-4}（1KHz，20℃）
	1 <μFC_R≦10 μF	≦30×10^{-4}（1KHz，20℃）

外形尺寸 Dimensions (mm)

Cn (μF)	L	B	H	P	D
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
0.068	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
0.01	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	5	11	10	0.6
0.033	13	5	11	10	0.6
0.033	13	6	12	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	5	11	10	0.6
0.1	13	6	12	10	0.6
0.11	13	6	12	10	0.6
0.12	13	6	12	10	0.6
0.15	13	6	12	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

Cn (μF)	L	B	H	P	D
0.01	18	5	11	15	0.8
0.012	18	5	10	15	0.8
0.015	18	5	11	15	0.8
0.018	18	5	10	15	0.8
0.022	18	5	11	15	0.8
0.027	18	5	11	15	0.8
0.033	18	5	11	15	0.8
0.039	18	5	11	15	0.8
0.047	18	5	11	15	0.8
0.047	18	6	12	15	0.8
0.056	18	5	11	15	0.8
0.068	18	5	11	15	0.8
0.068	18	6	12	15	0.8
0.082	18	5	11	15	0.8
0.082	18	6	12	15	0.8
0.1	18	5	11	15	0.8
0.1	18	6	12	15	0.8
0.11	18	5	11	15	0.8
0.12	18	5	11	15	0.8
0.12	18	6	12	15	0.8
0.15	18	5	11	15	0.8
0.15	18	6	12	15	0.8
0.15	18	7.5	13.5	15	0.8
0.15	18	8.5	14.5	15	0.8
0.18	18	6	12	15	0.8
0.18	18	7.5	13.5	15	0.8
0.2	18	6	12	15	0.8
0.2	18	7.5	13.5	15	0.8
0.22	18	6	12	15	0.8
0.22	18	7.5	13.5	15	0.8
0.22	18	8.5	14.5	15	0.8
0.22	18	6.3	13	15	0.8
0.22	18	7.5	14.5	15	0.8
0.22	18	6	13.5	15	0.8
0.27	18	8.5	14.5	15	0.8
0.27	18	7.5	13.5	15	0.8
0.33	18	7.5	13.5	15	0.8
0.33	18	11	19	15	0.8
0.33	18	10	18	15	0.8
0.33	18	8.5	15.8	15	0.8
0.33	18	8.5	14.5	15	0.8
0.39	18	8.5	14.5	15	0.8

外形尺寸 Dimensions (mm)

Cn (μF)	L	B	H	P	D
0.47	18	10	19	15	0.8
0.47	18	11	19	15	0.8
0.47	18	10	16	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
0.1	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
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

Cn (μF)	L	B	H	P	D
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
0.39	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	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	21	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	31	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	31.5	13	21.6	27.5	0.8
2.2	31.5	14	25	27.5	0.8
2.2	32	16	25.5	27.5	0.8
2.2	32	15	30	27.5	0.8
2.2	32	18	28	27.5	0.8
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	16	27.5	27.5	0.8
3.3	31	18	33	27.5	0.8
3.3	31.5	22	31	27.5	0.8
3.3	32	18	28	27.5	0.8
3.5	32	18	28	27.5	0.8
3.9	32	17	28	27.5	0.8
3.9	31	19	28	27.5	0.8
3.9	31	18	33	27.5	0.8
4	31	18	33	27.5	0.8

外形尺寸 Dimensions (mm)

Cn (μF)	L	B	H	P	D
4.5	31	22	31	27.5	0.8
4.7	32	15	30	27.5	0.8
4.7	32	18.5	31	27.5	0.8
4.7	31	22	31	27.5	0.8
6.8	31	22	37	27.5	0.8

Cn (μF)	L	B	H	P	D
1	36	11	12	32	0.8
1.2	36	12	22	32	0.8
1.2	36	10.5	20	32	0.8
1.3	36	10.5	20	32	0.8
1.3	36	12	22	32	0.8
1.4	36	11	22	32	0.8
1.4	36	12.5	24	32	0.8
1.5	36	11	22	32	0.8
1.5	36	12.5	24	32	0.8
1.6	36	11	22	32	0.8
1.6	36	13.5	24	32	0.8
1.7	36	12	22	32	0.8
1.7	36	15	25	32	0.8
1.8	36	12	22	32	0.8
1.8	36	15	25	32	0.8
1.9	36	12.5	24	32	0.8
1.9	36	15	25	32	0.8
2	36	12.5	24	32	0.8
2	36	15	25	32	0.8
2.2	36	12.5	24	32	0.8
2.2	38	16	28	32	0.8
2.4	36	15	25	32	0.8
2.4	38	16	28	32	0.8
2.5	36	15	25	32	0.8
2.5	38	17	28	32	0.8
2.6	36	15	25	32	0.8
2.6	38	17	28	32	0.8
2.7	36	15	25	32	0.8
2.7	38	18.5	29	32	0.8
2.8	36	15	25	32	0.8
2.8	38	18.5	29	32	0.8
3	37	15	27	32	0.8
3	38	18.5	29	32	0.8

Cn (μF)	L	B	H	P	D
3.2	38	16	28	32	0.8
3.2	38	16	28	32	0.8
3.3	38	19.5	31	32	0.8
3.3	36	17	26	32	0.8
3.3	38	17	28	32	0.8
3.5	38	19.5	31	32	0.8
3.7	38	17	28	32	0.8
3.8	38	18.5	29	32	0.8
3.9	38	18.5	29	32	0.8
4	38	18.5	29	32	0.8
4.2	38	18.5	29	32	0.8
4.3	38	19.5	31	32	0.8
4.5	38	19.5	31	32	0.8
4.7	36	17	26	32	0.8
4.7	38	19.5	31	32	0.8
4.7	36.5	15.5	26	32	0.8
5	36	19.5	32	32	0.8
6	36	22	33	32	0.8

外形尺寸 Dimensions (mm)

Cn (μF)	L	B	H	P	D
1.5	41	11	22	37.5	1.0
1.8	41	11	22	37.5	1.0
2.2	41	16	28.5	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	41	15	26	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

Cn (μF)	L	B	H	P	D
3.7	47	17	31	42	1.0
3.9	47	17	31	42	1.0
4	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	48	23	32	42	1.0
6	48	23	32	42	1.0
6.5	47	23	35	42	1.0
6.8	48	24	37	42	1.0
7	48	24	37	42	1.0
7.5	48	24	37	42	1.0
8	48	26.5	38	42	1.0
8.2	48	26.5	38	42	1.0
8.5	48	26.5	38	42	1.0
9	46	24	38	42	1.0
9.5	48	24	37	42	1.0
10	48	24	37	42	1.0

金属化聚丙烯膜抗干扰电容器（X2 THB系列）
Metallized polypropylene film Interference Suppression capacitor (X2 THB series)

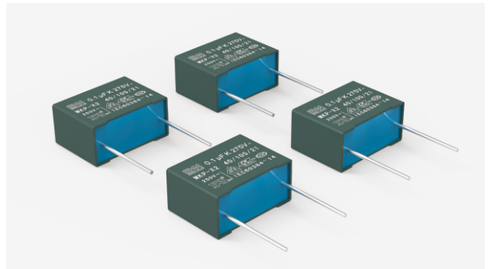
特点

优化系列X2认证型，采用高分子聚丙烯薄膜介质、加厚型金属化电极、全自动喷焊工艺，94V0级阻燃PBT塑壳、耐湿热环氧树脂密封、CP线引出。高耐压、耐湿热、低容降，专用于阻容降压电路，如LED驱动模块、电表、小家电等低功率电子消费产品。

Features

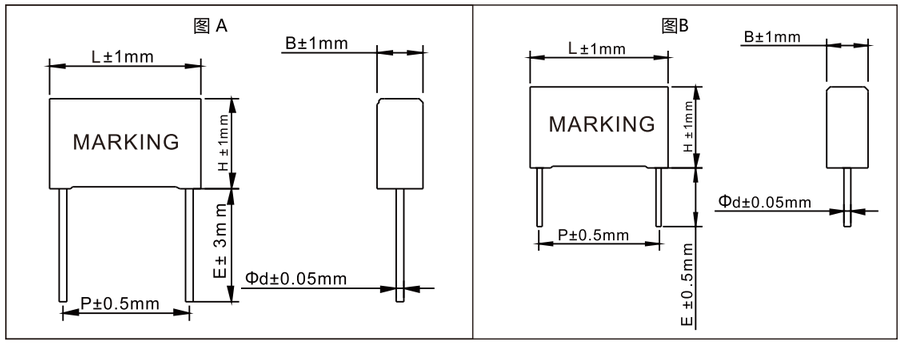
- Metallised polypropylene(MPP) film capacitor;
- 94V0 retardant PBT case;
- Epoxy filling;
- CP wire lead;
- Specially designed for capacitive divider;

Application: LED driver module, smart meter, appliance and other consumer goods.



产品可通过THB1000h双85测试
All of the product could pass the THB 85/85 1000H test.

外形图 Outline drawing



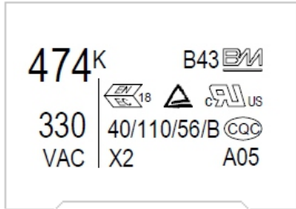
技术要求Specifications

电容器类别Class	X2类	
引用标准Reference Standard	IEC 60384-14:2013、GB/T 6346.14-2015、UL60386-14：2009	
气候类别 Climatic Category and Flammability Category	40/105/21、 40/110/56/B	
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）	
绝缘电阻Insulation Resistance	引线之间Between Terminals:	≥15000 MΩ, C_R≤0.33μF （100VDC）
	极壳之间Between Terminals To Case:	≥5000S C_R＞0.33μF （100VDC 60S）
耐电压Voltage Proof	4.3*UR(VDC)/10S	
预期使用寿命Service life	50000H (Un θhs 70℃)	
损耗角正切Dissipation Factor	0.01μF≤C_R≤0.47μF, ≤0.1%	
	0.47μF<C_R≤1.0μF, ≤0.2%	
	C_R>1.0μF, ≤0.3%	
电压爬升率Pulse rise time(dv/dt)	100V/μs Max	
工作温度范围Temperature range	-40~110℃	

外形尺寸 Dimensions (mm)

Cn(μF)	L	B P	H		D
0.01	13	6	12	10	0.6
0.1	18	6	12	15	0.8
0.15	18	7.5	13.5	15	0.8
0.22	18	8.5	14.5	15	0.8
0.33	18	10	15.8	15	0.8
0.39	26.5	8.5	17	22.5	0.8
0.47	26.5	8.5	17	22.5	0.8
0.56	26.5	10	19	22.5	0.8
0.68	26.5	10	19	22.5	0.8
1	26.5	13	23	22.5	0.8
4.7	31	22	31	27.5	0.8
6.8		20.5	34	37.5	1.0
10	42	24	36	37.5	1.0

Capacitor Marking E.G.



	Manufacture’s logo		Safety approval：ENEC/TUV/CQC/UL
X2	EMI suppression capacitor - Safety Class X2	40/110/56/B	Climatic Category and Flammability Category
474	Capacitance = 470nF	B43	Code
K	Capacitance tolerance =±10%	A05	production cycle
330VAC	Rated Voltage		

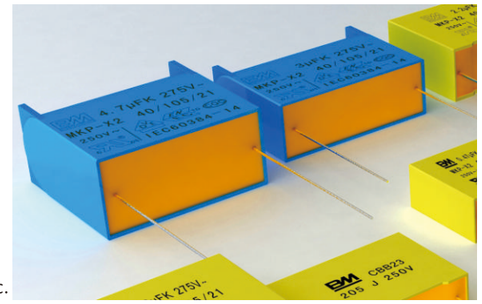
金属化聚丙烯膜抗干扰电容器（RC并联）
Metallized polypropylene film Interference Suppression capacitor（Parallel RC-Unit)

特点

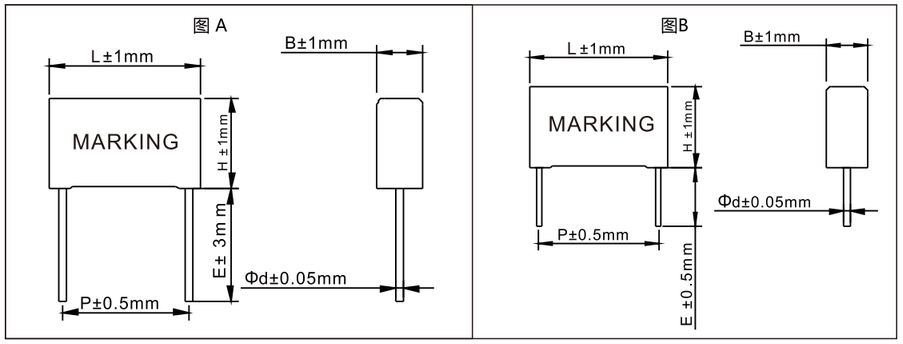
X2电容与放电电阻内部并联构成
优良的阻燃性能
广泛用于电源线路等抗干扰场合

Features

Internal parallel connection from X2 cap to dischange resistor
Excellent active and passive flame resistant abilities
Widely used in across-the-line, interference suppression cicuit, etc.



外形图 Outline drawing



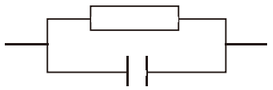
技术要求Specifications

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≦C_R < 0.47μF	≦20×10^{-4}（1KHz，20℃）
	0.47μF≦C_R≦ 1 μF	≦20×10^{-4}（1KHz，20℃）
	1 < μFC_R≦ 10 μF	≦30×10^{-4}（1KHz，20℃）

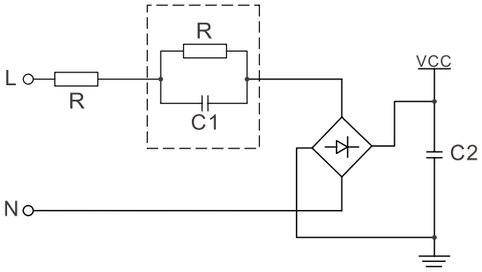
外形尺寸 Dimensions (mm)

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	680KΩ	820KΩ	1MΩ	1.5MΩ	
	2.2MΩ	3.3MΩ	4.7MΩ	6.8MΩ	10MΩ	

内部示意图



典型线路图
Typical circuit



C:降压电容
Capacitive divider

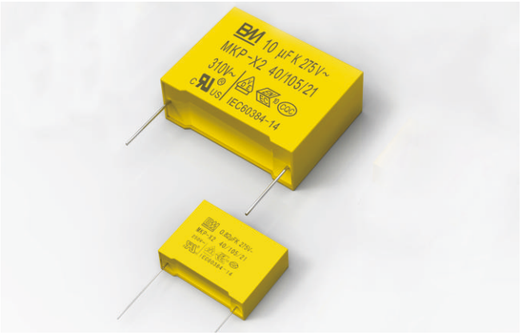
金属化聚丙烯膜抗干扰阻容模块（RC串联）
Metallized polypropylene film Interference Suppression (Series RC-Unit)

特点

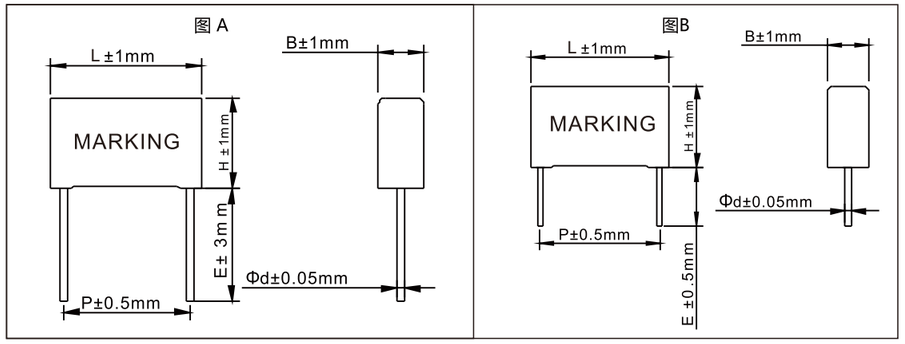
金属化聚丙烯膜　　能承受过压冲击
优良的阻燃性能　　具有良好的抑制噪音
吸收能量尖峰和阻尼作用

Features

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



外形图 Outline drawing



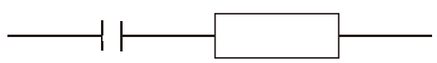
技术要求Specifications

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)	

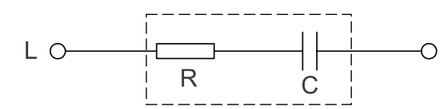
外形尺寸 Dimensions (mm)

Cn(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	22Ω	47Ω	51Ω	68Ω	
	100Ω	120Ω	220Ω	470Ω	1KΩ	

内部示意图



典型线路图
Typical circuit



后级电路
Back-stage circuit

C:降压电容
Capacitive divider

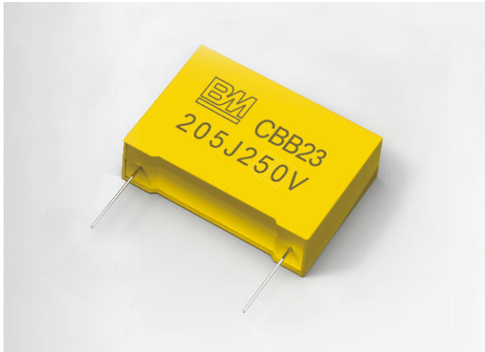
塑料外壳双面金属化聚丙烯膜电容器
Double sided metallized polypropylene film capacitor (Box type)

特点

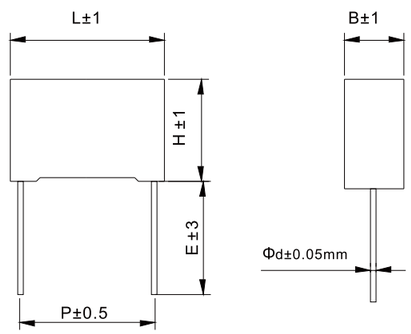
双面金属化聚丙烯膜
损耗小、内部升温小
负电容量温度系数
优异的阻燃性能

Features

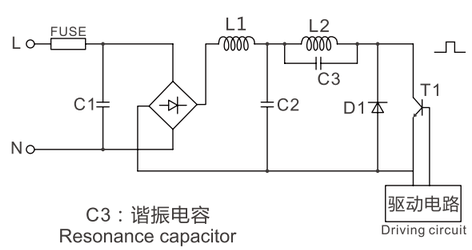
Doublesided metallized polypropylene film
Low loss and small inherent temperature rise
Negative temperature coefficient of capacitance
Exellent active and passive flame resistant circuit



外形图 Outline drawing



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℃
工作温度Operating Temperature	-40℃~105℃(+85℃ to 105℃:decreasing factor 1.25% per ℃ for UR(dc) (+75℃ to 105℃:decreasing factor 1.35% per ℃ 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℃,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)	2000	1000	---	---			
300(800 Vdc)	---	1500	1500	---			
400(1000 Vdc)	---	2000	1800				
500(1600 Vdc)	---	2500	2000	1500			
700(2000 Vdc)	---	5000	3500	1800			
900(2500 Vdc)	---	---	5000				

外形尺寸 Dimensions (mm)

630VDC

Cn(μF)	L	B	H	P	D
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

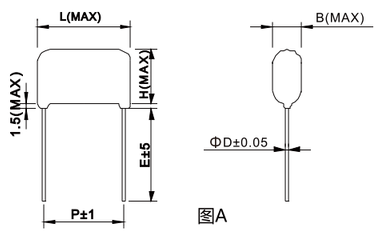
外形尺寸 Dimensions (mm)

630VDC

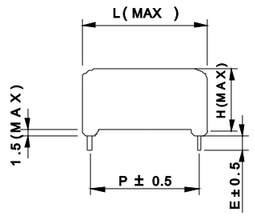
Cn(μF)	L	B	H	P	D
1.2	31	11	20	27.5	0.8
1.5	31.5	13	21.6	27.5	0.8
1.8	31	14	23.5	27.5	0.8
2	31	14	25	27.5	0.8
2.2	32	16	25.5	27.5	0.8
2.7	32	17	28	27.5	0.8
3.3	32	18	28	27.5	0.8
3.9	32	18	33	27.5	0.8
0.1	13	6	12	10	0.6
0.15	13	6	12	10	0.6
0.18	13	8	14	10	0.6
0.22	13	8	14	10	0.6
0.068	18	5	11	15	0.6
0.082	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 (dipped type)

外形图 Outline drawing



图A



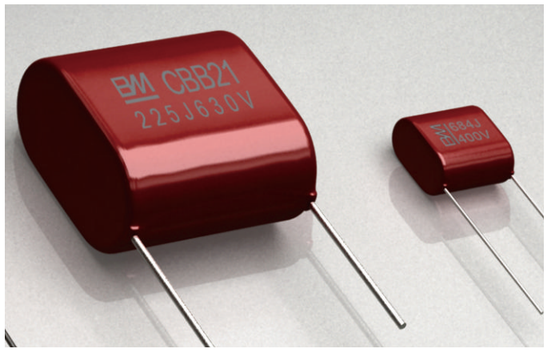
3.5≤E≤5	5<E≤10	10<E≤15
E=E±0.5	E=E±1	E=E±2

特点
金属化聚丙烯膜
高频损耗小
内部升温小
阻燃环氧粉末包封（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
专为大屏幕显视器及彩电的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 optimunm 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



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℃
工作温度Operating Temperature	-40℃~105℃(+85℃ to 105℃:decreasing factor 1.25% per ℃ 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,C_R≤0.33μF ≥30000s, C_R>0.33μF (20℃,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

Cn (μF)	L	B	H	P	D
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

Cn (μF)	L	B	H	P	D
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

Cn (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	0.8
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	

Cn (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)

630VDC

Cn (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

Cn (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)

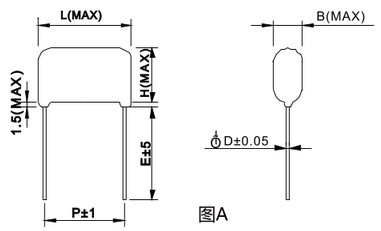
630VDC

Cn (μF)	L	B	H	P	D
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

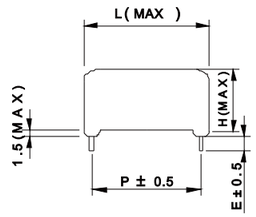
Cn (μF)	L	B	H	P	D
3.9	29.5	16.5	24.0	26	0.8
4.0	29.5	17	24.0	26	0.8
4.7	29.5	17.5	26.5	26	0.8
1.8	31	10	17.0	27	0.8
2.0	31	11	20	27	0.8
2.2	31	12.5	19.5	27	0.8
2.7	31	13.5	21.0	27	0.8
3.0	31	13.6	22.5	27	0.8
3.3	31	14.5	23.5	27	0.8
2.0	35	10.5	17.5	31	0.8
2.2	35	11	18	31	0.8
2.7	35	12	19.5	31	0.8
3.0	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



图A



3.5≤E≤5	5<E≤10	10<E≤15
E=E±0.5	E=E±1	E=E±2

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）

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)

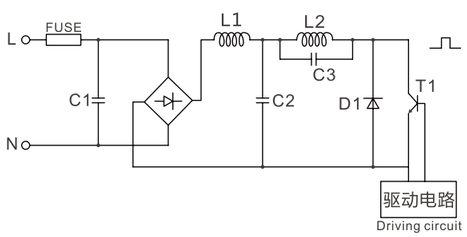
主要用途

大屏幕显视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

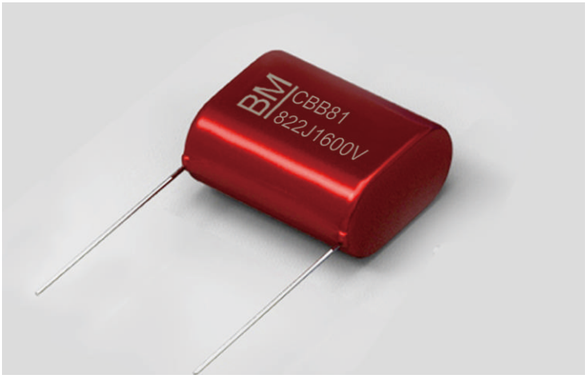
Typical application

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

典型线路图
Typical circuit



C1:跨线电容
Across-the-line capacitor



技术要求 Specifications

引用标准Reference Standard	GB/T 14579(IEC 60384-17)
气候类别Climatic Category	40/105/21
额定温度Rated Temperature	85℃
工作温度Operating Temperature	-40℃~105℃(+85℃ to 105℃:decreasing factor 1.25% per ℃ 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)

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	20000						
1600/2000	26000	---	---				

外形尺寸 Dimensions (mm)

1000VDC

Cn (μF)	L	B	H	P	D
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

1200VDC

Cn (μF)	L	B	H	P	D
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

Cn (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

2000VDC

Cn (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

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

外形尺寸 Dimensions (mm)

1600VDC

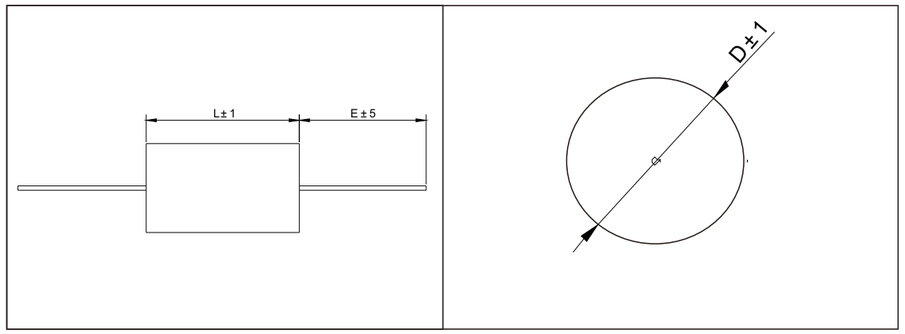
Cn (μF)	L	B	H	P	D
0.0033	19	7	13.0	15.0	0.8
0.0039	19	7	12.5	15.0	0.8
0.0047	19	7.5	13.0	15.0	0.8
0.0056	19	7	12.5	15.0	0.8
0.0068	19	7.5	13.5	15.0	0.8
0.0082	19	7.5	13.0	15.0	0.8
0.0100	19	7.5	13.0	15.0	0.8
0.0120	19	8.5	14.0	15.0	0.8
0.0150	19	9.5	15.0	15.0	0.8
0.0180	19	9.5	16.0	15.0	0.8
0.0220	19	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

2000VDC

Cn (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

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

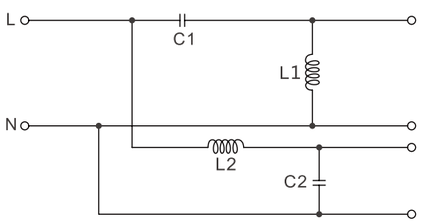
主要用途

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

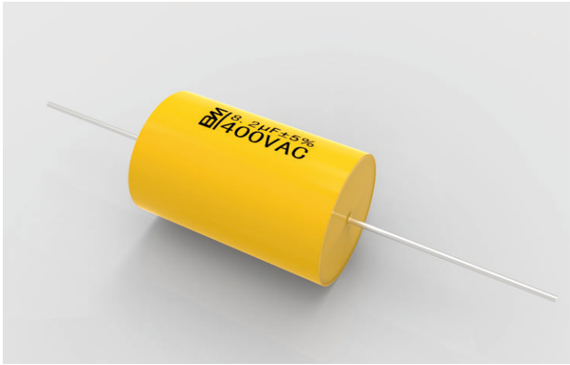
Typical application

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℃
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^{-4}(1KHz,20℃)
绝缘电阻Insulation Resistance	≥100000MΩ,C_R ≤0.33μF ≥30000s, C_R >0.33μF (20℃,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

Cn (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

Cn (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

外形尺寸 Dimensions (mm)

400VDC

Cn (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

630VDC

Cn (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

外形尺寸 Dimensions (mm)

250VDC

Cn (μF)	L	D	d
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

Cn (μF)	L	D	d
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

250VDC

Cn (μF)	L	B	H	D
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

400VDC

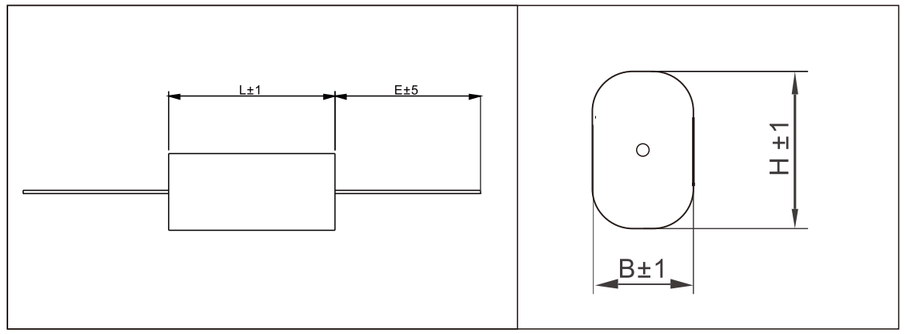
Cn (μF)	L	B	H	D
0.82	25	7.5	12.5	0.8
1	25	8.5	13.5	0.8
1.2	25	9.5	14.5	0.8
1.5	25	11.0	15.5	0.8
1.8	25	12.0	17.0	0.8
1	31	7.0	11.5	0.8
1.2	31	8.0	12.5	0.8
1.5	31	8.0	14.5	0.8
1.8	31	9.0	15.5	0.8
2	31	10.0	16.0	0.8
2.2	31	10.5	16.5	0.8
2.7	31	11.5	18.0	0.8
3	31	12.5	18.0	0.8
3.3	31	13.0	19.5	0.8
3.9	31	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

630VDC

Cn (μF)	L	B	H	D
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

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

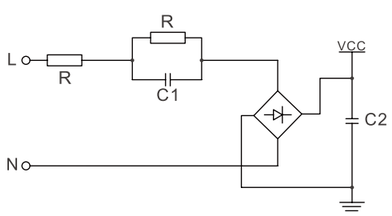
主要用途

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

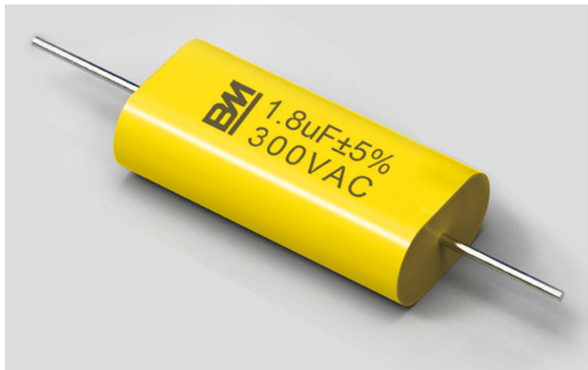
Typical application

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℃
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^{-4}(1KHz,20℃)
绝缘电阻Insulation Resistance	≥100000MΩ,C_R ≤0.33μF ≥30000s, C_R >0.33μF (20℃,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)

250VAC

Cn(μF)	L	B	H	D
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)

250VAC

Cn(μF)	L	B	H	D
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