公司简介
COMPANY PROFILE

凯励集团总部位於台湾省台中市，自1986年成立以来经过不断研发、改善，在金属膜电容器制造业界颇负盛名。

为适应市场及经济形势的发展，於1997年在广东省东莞市设立“东莞凯励电子有限公司”，并於2002年在浙江设立“浙江嘉兴凯励电子有限公司”。

目前集团在职员工430多名，主要生产金属化膜电容器，包括MPX、MEH、MPF、MZP、MPH、MPC、MPD、MPB、MPA MPT、DMB、DMS、DPC、DPS、MEK、MPK、MPR、MS3 RS3、MKP、MKR、SCA、SCD、SCH、FPK、MKE、HVS、SCK、FCA等系列电容器，月产量达一亿一千万只以上。

Carli group limited sets up in Taichung,Taiwan.With our continuous research, development and improvement, our company had obtained a good famous among the plastic film capacitor production in Taiwan, since our company was established in 1986.

In order to accommodate with the market tendency, we established Carli Electronics co., ltd. in DongGuan in 1997, and seted up another factory in ZheJiang which called ZheJiang JiaXing Carli Electronics co.,ltd in 2002.

Now there are more than 430 employees in our company.our main products are metallized film capacitors , which include many types such as of MPX,MEH,MPF,MPH,MPC,MPD,MZP, MPB,MPA,MPT,DMB,DMS,DPC,DPS,MEK,MPK,MPR,MS3,R S3,MKP,MKR,SCD,SCH,FPK,MKE,HVS,SCK,FCA,etc.The productivity is 110,000kpcs per month.

2025

主要知名客户包括: 韩国SAMSUNG、LG，日本NEC、TDK、MITSUMI、SANKEN、BROTHER、SONY，美国FLEXTRONICS、EMERSON、APPLE，荷兰PHILIPS，德国OSRAM、SIEMENS，中国台湾DELTA、CHICONYPOWER、 TPV、FOXCONN、LITEON、ACBEL、FSP，英国U&K，中国香港JOHNSON、VTECH，中国大陆KAIFA、CHINT、BOE、HWAWEI、OPPO、VIVO等。

MAJOR CUSTOMERS:(Korea)SAMSUNG,LG,(Japan)NEC,TDK,MITSUMI,SANKEN,BROTHER,SONY,(U.S.A.) FLEXTRONICS,EMERSON,APPLE(Holland)PHILIPS,(Germany)OSRAM,SIEMENS,(Taiwan)DELTA,CHICONYPOWER,TPV,FOXCONN,LITEON,ACBEL,FSP,(Britain)U&K,(HongKong)JOHNSON,VTECH, (China)KAIFA,CHINT,BOE,HWAWEI,OPPO,VIVO.

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八、AC 马达电容器
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STANDARD SYSTEM

1、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、总规范、分规范、空白详细规范以及详细规范（即企业标准）组成。或者说，企业标准是按总规范和分规范的基本要求填写空白详细规范而成。

总规范规定了分规范和详细规范中使用的标准术语、检验程序和试验方法。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估程序、试验和测量方法，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、编排和最基本的要求。

1、THE STANDARD SYSTEM OF FIXED PLASTIC FILM CAPACITOR FOR USE IN ELECTRONIC EQUIPMENT

The standard system of fixed plastic film capacitor for using in electronic equipment includes the foundational standard,generic specification,and manufacturer specification. That is, a manufacturer specification is derived from blank detail specification according to the generic and sectional specifications .

Generic specification specifies the teminology, inspection procedures and test methods applied in sectional and detail specifications . Setional specifIcation is classified acording to the specific dielectric material and construction of capacitor , it prescribes preferred rating and characteristics and to select from generic specification the appropriate quality assessment procedures , test and measuring methods and to give general performance requirements for this type of capacitor. Blank detail specification is a supplementary document to the sectional specification 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:

标准号【No.】	标准【Standards】
GB/T 2693 (IEC 60384-1)	第1部分：总规范 Part1:Generic specification
GB/T 7332 (IEC 60384-2)	第2部分：分规范：金属化聚酯膜介质直流固定电容器 Part2:Sectional specification:Fixed metallized polyester film D.C.capacitor
GB/T 7333 (IEC 60384-2-1)	第2部分：空白详细规范：金属化聚酯膜介质直流固定电容器 Part2:Blank detail sectional specification:Fixed metallized polyester film D.C.capacitor
	详细规范：Detail specification for
GB/T 6346 (IEC 60384-11)	第11部分：分规范：金属箔式聚酯膜介质直流固定电容器 Part11:Sectional specification:Fixed polyester film metal foil D.C.capacitor
GB/T 6347 (IEC 60384-11-1)	第11部分：空白详细规范：金属箔式聚酯膜介质直流固定电容器 Part11:Blank detail specification:Fixed polyester film metal foil D.C.capacitor
	详细规范：Detail specification for PEI
GB/T 10188 (IEC 60384-13)	第13部分：分规范：金属箔式聚丙烯膜介质直流固定电容器 Part13:Sectional specification:Fixed polypropylene film metal foil D.C.capacitor
GB/T 10189 (IEC 60384-13-1)	第13部分：空白详细规范：金属箔式聚丙烯膜介质直流固定电容器 Part13:Blank detail specification:Fixed polypropylene film metal foil D.C.capacitor
	详细规范：Detail specification for PPN
GB/T 14472 (IEC 60384-14)	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 14473 (IEC 60384-14-1)	第14部分：空白详细规范：抑制电源电磁干扰用固定电容器 Part14:Blank detail specification:Fixed capacitors for electromagnetic interference suppression and connection to the supply mains
	详细规范：Detail specification for MPX
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 Part16:Sectional specification:Fixed metallized polyphenylene 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 Part16:Blank detail specification:Fixed metallized polyphenylene film D.C. capacitor
	详细规范：Detail specification for MPF ,MPB, MPH,MPC, MPD,MPA,MPT ,DMB, DMS ,DPC,DPS
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 Part17:Sectional specification:Fixed metallized polyphenylene film A.C.and pulse 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 metallized polyphenylene film A.C.and pulse capacitor
	详细规范：Detail specification for DMB, DMS ,MPB
GB/T 3667-1 (IEC 60252-1)	交流电动机电容器 第一部分 总则 - 性能,试验和定额- 安全要求 - 安装和运行总则 AC motor capacitor - Part 1: General - Perfromance ,testing and rating - Safety requirements - Guide for installation and operation
	详细规范 : MPK,MS3, MPR, RS3
GB/T 17702.1 (IEC 61071)	电力电子电容器 第一部分:总则 Capacitors for power electronics Part 1:General
	详细规范 : MKP, MKR,SCA,SCD,SCH, FPK, MKE,SCK

2、一些常见的标准术语

2.1、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。

2.2、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。

2.3、额定温度

可以连续施加额定电压的最高环境温度。

2.4、额定电压（Ur)

在下限类别温度和额定温度之间的任一温度下，可以连续施加在电容器上的最大直流电压或脉冲电压的峰值。

2.5、类别电压（Uc)

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。

2.6、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。

2.7、气候类别

电容器所属的气候类别用斜線分隔的三个数来表示（IEC 60068-1:如：40/100/56)。

40/100/56
- 稳态湿热实验的天数（56天）
- 上限类别温度（+100 ° C）
- 下限类别温度（- 40 ° C）

2. Standard Terminologies

2.1.Upper Category Temperature

The highest environmental temperature determined by capacitors design that the capacitor can work continuously .

2.2.Lower category temperature

The lowest environmental temperature determined by capacitors design that the capacitor can work continuously .

2.3.Rated Temperature

The highest environmental temperature in which capacitor applied continuously with the rated voltage.

2.4.Rate Voltage (Ur)

The maximum D.C.voltage or peak value of pulse voltage that can be applied continuously to capacitor at any temperature betweer lower category temperature and rated temperature.

2.5.Category Voltage(Uc)

The maximum voltage that can be applied continously to capacitor at upper category temperature .

2.6.Temperature Derated Voltage

The maximum voltage that can be applied continously to capacitor at any temperature between rated temperature and upper category temperature .

2.7.Climatic category

The climatic category which the capacitor belongs to express in three numbers separated by slashes ,(IEC60068-1:example 40/100/56）.

40/100/56
- days relevant to the damp heat test (56days)
- the upper category temperature(+100 ° C)
- the lower category temperature（-40 ° C）

2.8、損耗角正切（tgδ）

在規定頻率的正弦波電壓作用下，電容器的損耗功率除以電容器的無功功率。

2.9、容量温度系數(α)

電容器在規定的温度範圍内容量隨温度變化率。通常以20 °C時電容量爲參考，用百萬分之一每攝氏度(10^{-6}/ ℃)表示(10^{-6}/ ℃=1ppm/ °C)

$$a_i = \frac{Ci - Co}{Co(Ti - To)}$$

Ci:電容器在温度Ti時容量

Co：電容器在T0(20±2) °C時的容量

2.10、絶緣電阻（I.R.）/時間常數（t）

絶緣電阻爲電容器充電一分鐘後所加的直流電壓和流經電容器漏電流的比值，單位爲MΩ。時間常數爲絶緣電阻和電容量的乘積，通常以秒表示，公式如下：

t[s]=I.R.[MΩ]xC[μF]

一般情况下，絶緣電阻用於描述小容量電容器的絶緣特性，時間常數用於描述大容量（如：C_R>0.33μF)電容器的絶緣特性。

2.8.loss tangent（tgδ）

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

2.9.Temperature coefficient of capacitance(α)

The change rate of capacitance with temperature measured over a specified range of temperature. It is normally expressed in parts per million per Celsius degree (10^{-6}/ °C)and referred to 20 °C.

$$a_i = \frac{Ci - Co}{Co(Ti - To)}$$

Ci:Capacitance at teperature Ti

Co:Capacitance at temperature T0(20±2) °C

2.10.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 follwing formula:

t[s]=I.R.[MΩ]xC[μF]

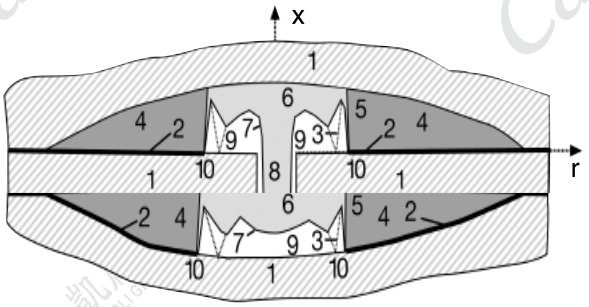
In general, Insulation resistance is used for describing smaller capacitance the insulation character of capacitor,on the other hand time constant for describing larger ones' (example:C_R>0.33μF)

2.11、自愈性（仅对金属化膜电容器）

金属化膜的金属层是通过真空蒸发的方法将金属沉积在薄膜上，厚度只有几十个纳米，当介质上存在弱点，杂质时，局部电击穿就可发生，电击穿处的电弧放电所产生的能量足以使用电击穿点邻近处的金属镀层蒸发，使击穿点与周围极板隔开，电容器电气性能即可恢复正常。

2.11.Self-healing(Only for metallized filmcap acitor)

The metal coatings of the metallized film, which are vacuum-deposited directly onto the metallized film, have a thickness of only dozens of nanometers. At weak points or impurities in the dielectric,a dielectric breakdown won energy released by the arc discharge in the breakdown channel is sufficient to totally evaporate the thin metal coating in the vicinity of the channel. The insulated region thus resulting around the former faulty area will cause the capacitor to regain its full operation ability .



电介质断裂中自愈图解

1 电介质
2 金属化电极
3 释放冲击波材料
4 带有金属蒸气的空气间隙（沟）
5, 6 等离子区
7 气相介质和等离子间的界面层
8 断裂渠道
9 气相介质
10 去金属化区和介质（绝缘区）

备注：
在低压条件下，金属喷涂的阳极氧化导致电化学自愈过程。

Schematic of the selt-healing area during electrical breakdown

1 Dielectric
2 Metallized electrodes
3 Material displacing shock wave
4 Air gap with metal vapor
5,6 Plasma zone
7 Boundary layer between gas phase dielectric and plasma
8 Breakdown channel
9 Gas phase dielectric
10 Zone of displaced metallization and dielectric (insulating region)

Note:
At low voltages,anodic oxidation of the metal coatings leads to an electrochemical self-healing process.

2.12、安全性

保安機構動作原理

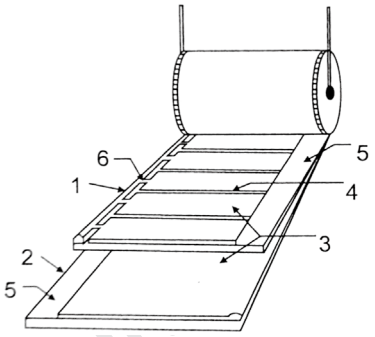
電容器元件以節段式金屬化塑膠膜卷繞而成，使電容量由數百或數千個小容量并聯而成，且在每一個小容量上設計有類似保險絲功能的保安機**构**，如下圖1所示。當電容器承受過電壓、異常過溫或壽命終了時，造成絕緣材質破壞，部份小容量單元仍然正常使用，如下圖2所示。電容器功能不因局部故障而失去整只電容器的功能，以達自我保護功能，避免電容器發生冒煙或起火。

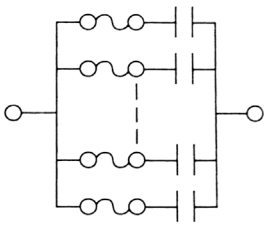
2.12. Safety

Operation of lnternal Safety Mechanism

Capacitor element wounded by segmented metaltized film. Hundreds or thousands of small capacitors in parallel formed the element, and each small capacitor equipped individual fuse as Figure 1. When a dielectric breakdown occurred in a small capacitor due to overvoltage, abnormal heating or end of life, the fuse of the failure area burned off and disconnected the failure area fron circuit. The remained good smaill capacitors would continue to be used as Figure 2. Capacitor will not lose the function caused by partial failure. lts self-protective function will prevent capacitor from emitting smoke or catching fire.

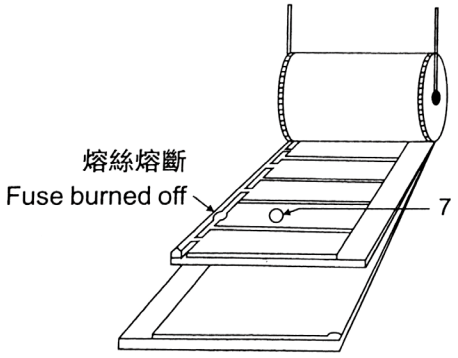
图1.元件结构(正常情形)
Figure 1. Element Structure(Normal Condition)

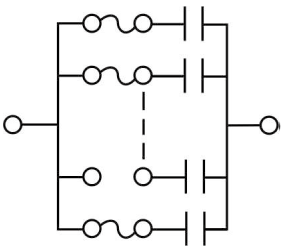




等效电路
Equivalent Circuit

图2. 異常發生保險絲動作
Figure 2. Fuse burned off on failure area





等效电路
Equivalent Circuit

1. 附保安機構之金屬化塑膠膜
2. 一般金屬化塑膠膜
3. 蒸鍍金屬層
4. 橫向間隔區
5. 縱向間隔區
6. 保險絲
7. 故障點

1.Segmented metallized film
2.General metallized film
3.Metallized layer
4.Free margin in transverse direction
5.Free margin in machine direction
6.Fuses
7.Failure area

2.13 马达电容介绍- introduction for motor running capacitor

2.13.1、 马达运转电容

●一种用来与电动机辅助绕组相连接，以帮助电动机起动并改善在运行状况下的转矩的电力电容器。

注：运行电容器通常与电动机绕组永久性连接，并在电动机整个运行期间均处于回路中，在起动期间，如果它与起动电容并联，则有助于电动机的启动。

2.13.1、Motor running capacitor

●A power capacitor which, when used in conjunction with an auxiliary winding of a motor assists the motor to start and improves the torque under running conditions.

Note ：the running capacitor is usually connected permanently to the motor winding and remains in circuit throughout the running period of the motor. During the starting period, if it is in parallel with the starting capacitor, it helps to start the motor.

2.13.2、马达起动电容

一种向电动机辅助绕组提供超前电流，且当电动机一旦正常运转，即从电路中断开的电力电容器。

2.13.2、Motor starting capacitor

A power capacitor which provides a leading current to an auxiliary winding of a motor and which is switched out of circuit once the motor is running .

2.13.3、马达电容器安全等级分类 ；参见IEC60252-1.2013(EN60252-1.2013)

安全等级	定义	结构	备注
S0	该类电容器无专门的故障保护	金属化聚丙烯膜无感并联卷绕结构	原标准P0
S1	该类电容器设计成失效时可呈开路状态或短路状态，且是防火或防爆的	金属化聚丙烯膜无感并联卷绕+过压断开装置	原标准P1
S2	该类电容设计成失效时仅呈开路状态，并且是防火或防爆的	金属化聚丙烯膜无感并联卷绕+过压断开装置	原标准P2
S3	此类电容器要求失效时有较低的残余容量(＜1%Cn)且防火防爆。	金属化聚丙烯分段式安全膜无感并联卷绕结构	新增

2.13.3、Safety Class Motor capacitor,refer to standard IEC 60252-1,2013(EN60252-1,2013)

Safety class	Definition	Structure	Note
S0	The capacitor type has no specific failure protection	MPPHE film non-inductive paralleling Winding element	Formerly refer to as P0
S1	The capacitor type has been designed to fail in the open- circuit or short circuit mode and is protected against fire or shock hazard	MPPHE film non-inductive paralleling Winding element +Over-press disconnect device	Formerly refer to as P1
S2	The capacitor type has been designed to fail in the open circuit mode and is protected against fire or shock hazards	MPPHE film non-inductive paralleling winding element+ Over-press disconnect device	Formerly refer to as P2
S3	The capacitor type is required to fail with low residual capacitance (＜1%Cn) and is protected against fire or shock hazard .	segmented safety film non-induction paralleling winding element	new

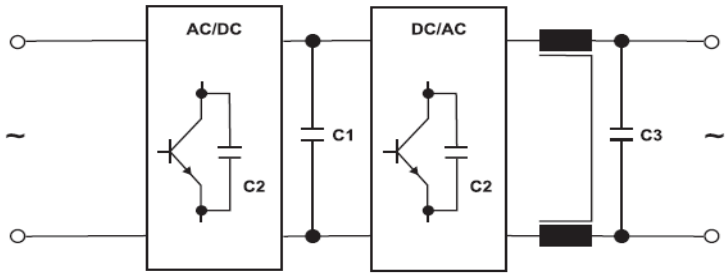
2.13.4马达电容预期寿命等级- Life expectancy class of Motor capacitor

预期寿命 Life expectancy	30000h(A级) Class A	10000h(B级) Class B	3000h(C级) Class C	1000h(D级) Class D
试验条件 Test condition	在1.25U_N下连续6000h,或在1.35U_N下连续3000h/ 6000h at 1.25Ur continuous or 3000h at 1.35Ur	在1.25U_N下连续2000h,或在1.35U_N下连续1000h/ 2000h at 1.25Ur continuous or 1000h at 1.35Ur	在1.25U_N下连续600h/ 600h at 1.25Ur continuous	在1.25U_N下连续200h/ 200h at 1.25Ur continuous
允许容量变化 Permitted Capacitance change	≤3%	≤3%	≤3%	≤3%

2.14、电力电子电容器说明- introduction for power electronics capacitors

电容器选用指南　Guide for capacitors choosing

2.14.0 基本拓扑图　Basic topology



电容说明 Description

类别/Class	功能/Function	对应型号/Type	备注/Remarks
C1	DClink 直流滤波	MKP、MKR	450VDC～1300VDC
C2	IGBT Snubber IGBT 吸收	SCD、SCH、SCR	630VDC～3000VDC
C3	AC filter AC 滤波	FPK、FPR、	180Vac,250Vac ,300Vac,350Vac400Vac

2.14.1电力电子电容器

用于电力电子设备中并能在正弦和非正弦电压下连续运行的电力电容器。

主要包括：直流支撑电容器（DC-Link capacitor ）、IGBT 吸收电容器、AC滤波电容器等。

2.14.1 capacitors for power electronics

Used in electric and electronic equipment and under in sinusoidal and non-sinusoidal voltage continuous operation power capacitors.

Included : DC Link capacitor , IGBT Snubber capacitor , AC Filter capacitor .

2.14.2直流支撑电容器

●在直流电作为逆变器的供电电源时，由于这个直流电源需要通过直流母线与逆变器链接，这种供电方式也被称为“ DC-Link ”。

●由于逆变器需要向“ DC-Link ”索取有效值和幅值很高的脉动电流，会在“ DC-Link ”上产生很高的脉动电压使得逆变器难以承受。为此，需要对“ DC-Link ”进行“支撑 ”(储能)，防止直流电压过度下降。以确保“ DC-Link ”的供电质量。

●DC-LINK电容在变频器中的功能:

●储能: 主要是为后级逆变系统的功率器件开通瞬间提供有效值和幅值很高的脉动电流；

●滤波: 同时滤除前级整流和后级逆变IGBT产生的高频纹波。

2.14.2DC-Link capacitor

●DC power as power supply in the DC inverter , due to the DC power required by the DC bus link with an inverter, this form of power supply are also called "DC-Link".

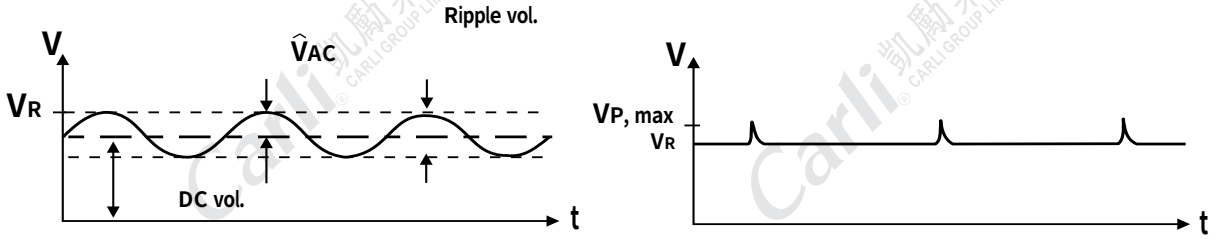
●Due to the inverter needs to "DC-Link" copies of the valid values and very high ripple current, in the "DC-Link" on the pulse of high voltage inverter to bear . To this end, it is necessary to "DC-Link" to "support" (storage), prevent excessive DC voltage drop . To make sure that "DC-Link" quality of power supply.

●DC-LINK function of capacitors in the inverter:

●Energy storage: mainly as a back-level inverter power devices provide effective opening moments and amplitude of a high current ripple;

●Filter: while filtering forward rectifier and back-stage inverter of IGBT high-frequency ripple.

Typical waveforms According to IEC61071



Restrictions:

V_R:Maximum operating peak voltage of either polarity but of a non-reversing waveform,for which the capacitor has been designed for continuous operation.

$\hat{V}_{AC} \leq 0.2 < V_R$.

$V_{P,max}$:Maximum permissible recurrent voltage that may appear for 2% of the period.

$U_R$dc : 设计电容器时所采用的非反复型波型的任一极性可连续运行的最高运行峰值电压，其值应大于直流工作电压和纹波电压之和。

$V_{ac} \leq 0.2\ V_R$。

V_P max : 2%周期或许会出现的最大允许周期性电压。

2.14.3、IGBT 吸收电容器

吸收电容用于吸收IGBT快速通断过程产生的杂讯,吸收突波电压和原边电流, 使IGBT应力大大降低，能最大限度地保护IGBT安全运行。

2.14.4 AC滤波电容

●AC滤波电容器主要用于工频(50Hz,60Hz)交流电力系统,用来对一种或多种谐波电流提供一低阻抗通道并改善功率因数的作用。

●可提高电源质量，以延长使用寿命的设备，以减少功率损耗，避免系统谐波过载及电压崩溃，消除了电力电子设备的影响。

●工业级交流滤波电容器是能够承受更高的电流，并确保使用寿命更长。

应用：

●太阳能/风能逆变器输入输出侧滤波；

●逆变电源、UPS电源、大功率开关电源等输入/输出侧滤波；

●大功率变频器等电力电子设备的交流滤波。

2.15、抑制电源电磁干扰用电容器

2.15.1当在电源跨線电路中使用电容器来消除噪音时，不仅仅只有正常电压，还会有異常脉冲电压（如闪电）发生，这可能会导致电容器冒煙或者起火。所以，跨線电容器其安全标准在不同国家有严格规定。请使用经过安全认证型电容器。

不允许将直流电容器用作跨線电容器。

2.14.3、IGBT snubber capacitor

Fast absorbing capacitors for IGBT switching process noise absorb surge voltage and the current, the IGBT stress significantly reduced, to maximize the safe operation of the protecting IGBT.

2.14.4 AC filter capacitor

●Ac filter capacitor is mainly used in power frequency (50 hz or 60 hz) ac power system, and the corresponding reactor with one or more used to harmonic current to provide low impedance channel (or tuning) and to improve the power factor.

●To improve power quality, so as to prolong the service life of the appliance, to reduce the power loss, avoid the system harmonic overload and voltage collapse, to eliminate the influence of the power electronic equipment.

●Industrial grade AC filter capacitor is capable to with stand higher current and ensure longer lifetime.

Application ：

●Solar/wind power inverter input and output side filter;

●Inverter power supply, UPS power supply, switching power supply, input/output side filter;

●AC filter of high power converters and other electrical and electronic equipment.

2.15、Capacitor for electromagnetic interference suppression of AC power supply.

2.15.1 When using a capacitor across-the-line as means for prevention of noise, not only the supply voltage is always applied, but also abnormal surge such as lighting is applied, which may lead to smoking or firing . Therefore, the across-the-line capacitor is strictly regulared in safety standard in each country . Please use those approved products,which conform to corresponding safety standards of different countries.

The DC capacitor will not be used in across-the-line circuit.

2.15.2 X类抑制电源电磁干扰用电容器

适用於在电容器失效时不会导致电击危险的场合，分为X1、X2两个类别（参见下表）。

2.15.3 Y类抑制电源电磁干扰用电容器

适用於在电容器失效时会导致电击危险的场合，分为Y1、Y2、Y4等四个类别（参见下表）。

2.15.2 Capacitor for electromagnetic interference suppression of AC power supply(Class X)

It is suitable for being used in situation where failure of the capacitor could not lead to danger of electric shock, classified as class X1,X2 (refer to the table below).

2.15.3 Capacitor for electromagnetic interference suppression of AC power supply (Class Y)

It is suitable for being used in situation where failure of the capacitor could lead to danger of electric shock, classified as class Y1,Y2 and Y4(refer to the table below).

类别 (Class)	使用时的峰值脉冲电压 Peak pulse voltage In service(KV)	应用 Application	耐久性实验前施加的峰值脉冲电压 Up Peak impulse voltage up before endurance test(KV)
X1	＞2.5,≤4.0	高脉冲应用 High pulse Application	$C_R \leq 1.0\,\mu F$,4.0 $C_R > 1.0\,\mu F$,$4/\sqrt{C_R}$
X2	≤2.5	一般用途 General purpose	$C_R \leq 1.0\,\mu F$,2.5 $C_R > 1.0\,\mu F$,$2.5/\sqrt{C_R}$

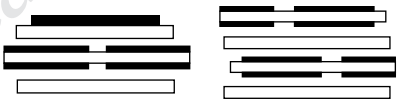
类别 (Class)	额定电压 Rated Voltage(Vac)	耐久性实验前施加的峰值脉冲电压Up Peak impulse voltage up before endurance test(KV)
Y1	≤500	8.0
Y2	≥150,≤300	5.0
Y4	<150	2.5

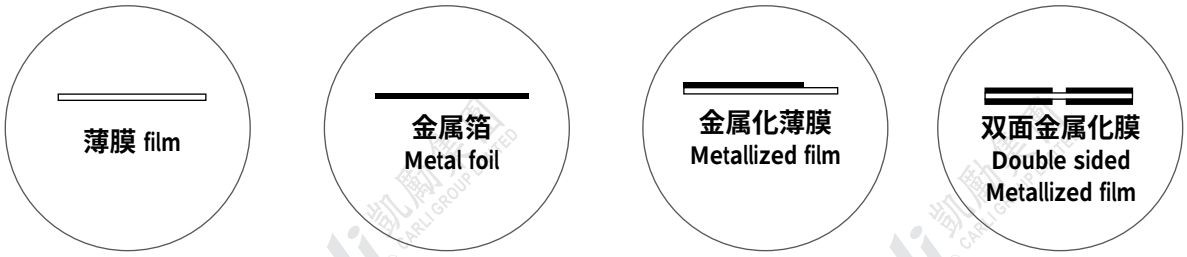
类别 (Class)	额定电压 Rated voltage(Vac)	耐电压 Voltage Proof	
		引線之间 Terminal to terminal	极壳之间 Terminal to case
X1、X2	≤1000	$4.3U_R$(d.c.)	$2U_R$+1500V(a.c.)with a minimum of 2000V(a.c.)
Y1	≤500	4000V(a.c.)	4000V(a.c.)
Y2	≥150,≤300	1500V(a.c.)[1)]	$2U_R$+1500V(a.c.)with a minimum of 2000V(a.c.)
Y4	＜150	900V(a.c.)[1)]	900V(a.c.)[1)]

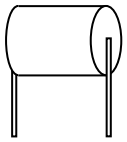
*1)Y2类和Y4类电容器的逐批试验，交流试验电压可以用规定交流电压1.5倍的直流电压代替。
For lot-by-lot tests of Class Y2 and Y4-capacitors,the a.c.test voltage may be replaced by a d.c.voltage of 1.5 times the prescribed a.c.voltage

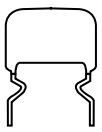
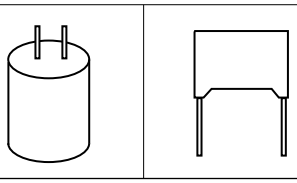
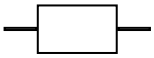
3、薄膜电容器的基本结构
Film capacitor basic construction

3.1、电容器结构示意图（Different capacitor constructions）

		
●MPX(CBB62) ●MPH(C37),MPC(MKP25),MPD(C37F) ●MPF(CBB21),MPB(MKP21),MPAMPT(CBB20), MPV(C32E) ●MPK(CBB61),MPR(CBB60),MS3(C61),MKP(C3D)	DPC(MKP21), DPS (CBB21) MEV	DMB(MKP82), DMS(C82D) SCD SCH



3.2、捲取结构 Winding construction	捲绕式径向产品 Winding capacitor radial leads	捲绕式轴向产品 Winding capacitor axial leads
		

3.3、封装方式 Different seals	浸渍型包封 epoxy powder coating	盒式封装 Sealed in box	轴向 axial lead
			

4、典型特性、应用、以及特性曲線

4.1、典型特性

聚酯薄膜

- 工作温度范围宽
- 介电常数大
- 自愈特性好
- 容积比大
- 稳定性好

聚丙烯薄膜的特性

- 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
- 稳定性好

4.2、典型应用聚酯薄膜电容器

- 隔直和耦合
- 旁路
- 退耦
- 滤波
- 定时
- 低脉冲电路
- 振盪电路

聚丙烯薄膜电容器

- 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
- 高频谐振

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4. TYPICAL PROPERTIES,APPLICATIONS AND TYPICAL GRAPHS

4.1.Typical Properties Polyester Film

- Very wide operating temperature range
- High dielectric constant
- Excellent self-healing properties
- Very good ratio box size/capacitance
- Good stability

Polypropylene Film

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

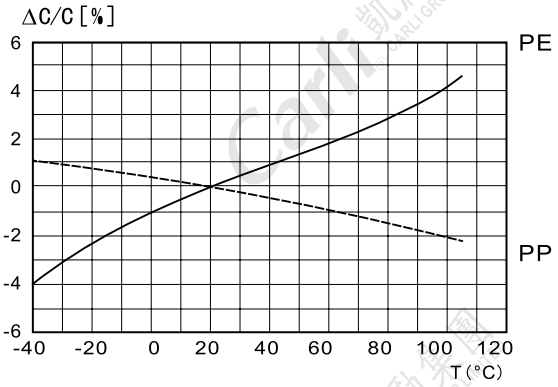
4.2.Typical Applications Polyester Film Capacitors

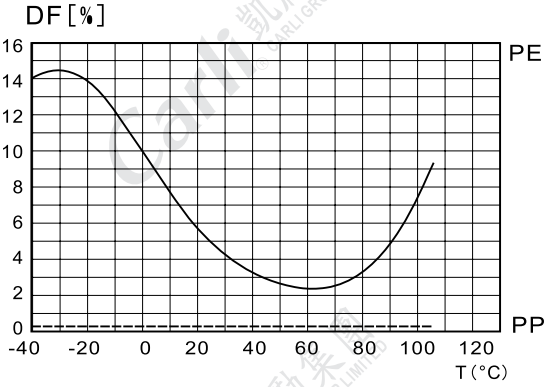
- Blocking and Coupling
- By-passing
- Decoupling
- Filtering
- Timing
- Low pulse circuits
- Oscillator circuits

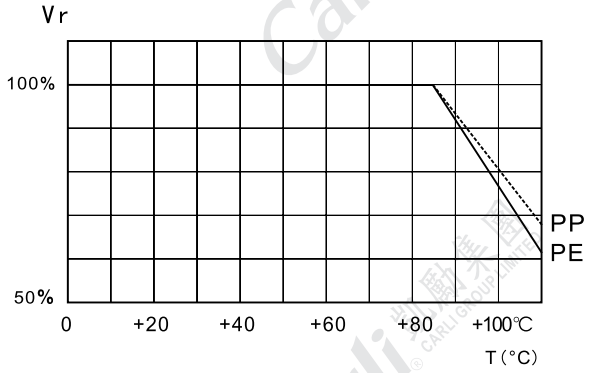
Polypropylene Film Capacitors

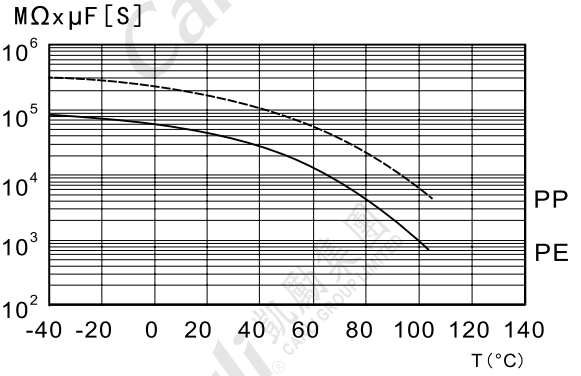
- High frequency,pulse applications
- High current
- A.C.applications
- Timing with high sability
- SMPS and TV set.
- Lighting
- Industrial
- high frequency resonance

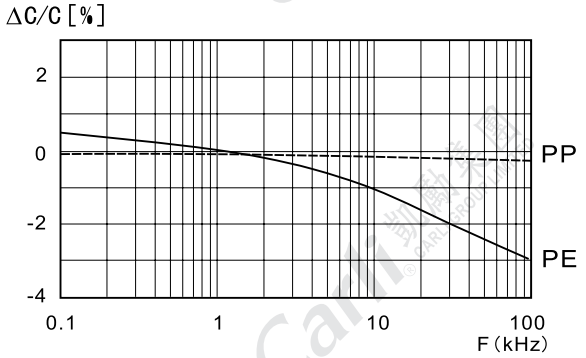
4.3、特性曲線 Typical graphs

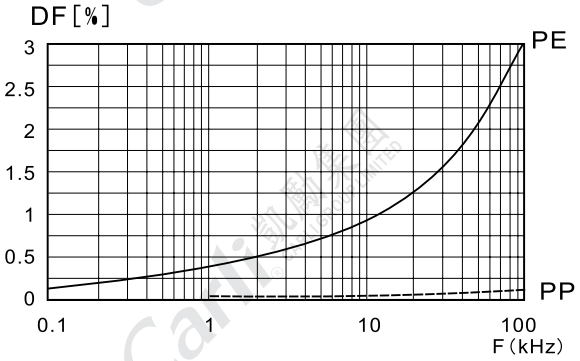












---------- 聚丙烯薄膜(Polypropylene Film)

———— 聚酯薄膜(Polyester Film)

5、使用薄膜电容器的注意事项

5.1、工作电压

薄膜电容器的选用取决於施加的最高电压，并受施加的电压波形、电流波形、频率、环境温度（电容器表面温度）、电容量等因素的影响。使用前请先检查电容器两端的电压波形、电流波形和频率（在高频场合，允许电压随着电容器类型的不同而改变，详细资料请参阅说明书）是否在额定值内。

MTF(CL21X)、MTB(CL21B)、MPC(MKP35)、MPH(C37)、MPD(C37F)系列电容不适合用於交流场合。

5.2、工作电流

通过电容器的脉冲（或交流）电流等於电容量C与电压上升速率的乘积，即 Ip =C x dV/dt。

由於电容器存在损耗，在高频或高脉冲条件下使用时，通过电容器的脉冲（或交流）电流会使电容器自身发热而有温升，将会有热击穿（冒烟、起火）的危险。因此，电容器安全使用条件不仅受额定电压（或类别电压）的限制，而且受额定电流的限制。

额定电流被认为是由击穿模式决定的脉冲电流（峰值电流）和连续电流（有效值）组成，$I_{rms}=2\pi fc.V_{rms}$ 当使用时，需确认这两个电流都在允许范围之内。

在高频或高脉冲条件下使用的电容器，我们推荐聚丙烯膜电容器。

5. Caution Items In Using Plastic Film Capacitors

5.1.Operation Voltage

The film capacitor varies in the maximum applicable voltage depending on the applied voltage waveform, current waveform, frequency, ambient temperature (capacitor surface temperature),capacitance,etc . Be sure to use capacitors within the specified values by checking the voltage waveform,current waveform,and frequency applied to them (in the appplication of high frequency,the permissible voltage varies with the type of the capacitor . For detail see the specifiction).

MTF(CL21X),MTB(CL2B),MPC(MKP35),MPH(C37), MPD(C37F)series isn't suitable for AC applications.

5.2.Operating Current

The pulse(or AC)current flowing through the capacitor is expressed as: Ip = C x dV/dt.

Due to the fact that dissipation factor of the capacitor will generate the internal heat under the application of high frequency or high pulse current, temperature rise in it will occur and may cause deterioration of with standing voltage,even lead to break down(smoking or firing) . Therefore,the safety use of capacitor must be within the rated voltage(or category voltage)and the permissible current.

The rated current must be considered by dividing into pulse current $I_{rms}=2\pi fc.V_{rms}$(peak current)and continuous current(rms current)depending on the break down mode, and when using, should make sure the both currents are within the permissible values.

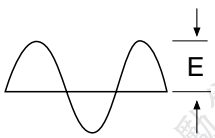
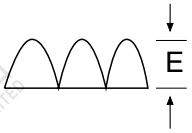
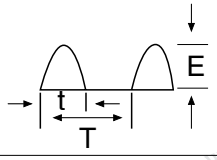
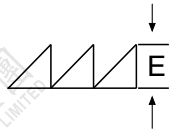
Under the application of high frequecy or high pulse,we recommend to use polypropylene film capacitor

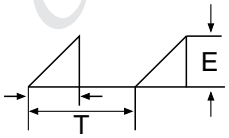
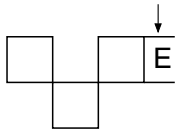
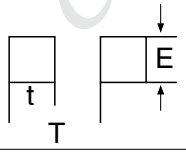
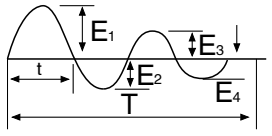
5.3 . 各种波形的有效值转换关系

不同的波形有效值按下面的公式计算。

5.3.Calculation of rms In Various Waveforms

In each waveform,calculate the rms value in the following formula.

種類（type）	1	2	3	4
波形（Waveform）				
有效值（rms）	$E/\sqrt{2}$	$E/\sqrt{2}$	$E\sqrt{t/(2T)}$	$E/\sqrt{3}$

種類（type）	5	6	7	8
波形（Waveform）				
有效值（rms）	$E\sqrt{t/(3T)}$	E	$E\sqrt{t/T}$	$\sqrt{\frac{t}{2T}(E_{1+}^2E_{2+}^2E_{3+}^2E_4^2)}$

5.4、电容器充放电

由於电容器充放电电流取决於电容量和电压上升速率的乘积，即使是低电压充放电，也可能产生大的瞬间充放电电流，这可能会导致电容器性能的损害，比如说短路或开路。当进行充放电时，请串联一个20Ω/V～1000Ω/V或更高的限流电阻，将充放电电流限制在规定的范围内。

当多个薄膜电容器并联进行耐电压测试或寿命测试时，请为每个电容器串联一个20Ω/V～1000Ω/V或更高的限流电阻。详见电容器标准。

5.4．Charging and discharging

Due to the charging and discharging current of capacitor is obtained by the product of voltage rise rate(dv/dt)and capacitance, low voltage charging and discharging may also cause deterioration of capacitor such as shorting and open due to sudden charging and discharing current . When charging and discharging , pass though a resistance of 20Ω/v to 1000Ω/v or more to limit current.

When connecting multiple film capacitors in parallel in withstand voltage test or life test, connect a resistance of 20Ω/v to 1000Ω/v or more in series to each capacitor.(For detail see the specification)

5.5、因薄膜振动产生的嗡鸣声

电容器的嗡鸣声是由於电容器薄膜受到两电极间库仑力的作用，产生的振动而发出的声音，施加的电压和频率波形失真越严重，所产生的嗡鸣声越大。但这种嗡鸣声对电容器电气特性不会产生任何破坏作用。

5.6、表面温升（△T）

5.6.1 当电容器用於交流及脉冲场合时，流经电容器的电流使其发热，如果发热量过大，会导致电容器短路甚至燃烧。所以流经电容器的电流不能超过产品目录所规定的最大值,及电容器在加载时监测温升就显得尤为必要。

5.6.2 测量电容器表面温升的方法如图1，被测试电容器必须施加工作交流、脉冲电压及工作频率。

5.5.Buzzing noise

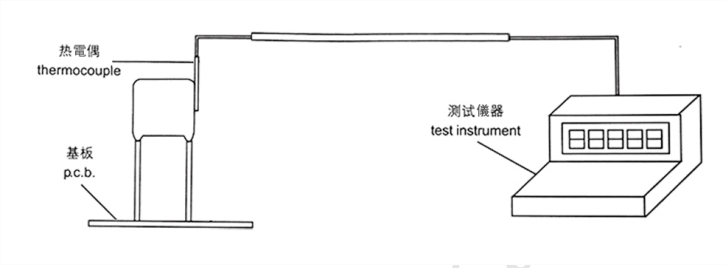
The buzzing noise produced by capacitor is caused by the vibration of the film due to the coulomb force that is generated between the electrodes with opposite poles . If the wave-form with a high distortion rate or frequency is applied accross the capacitor, the buzing noise will become louder howerer, the buzzing noise will not damage the capacitor's characteristics.

5.6.Surface overtemperature(△T)

5.6.1 When capacitor is used in A.C.or pulse applications the current that flows through the capacitor makes it heat up . If the capacitor heats up too much it might deteriorate causing a short circuit or fire . It is essential that the limits described in the catalogue are not exceeded , and that a temperature check on the capacitor is made whenever it is under load.

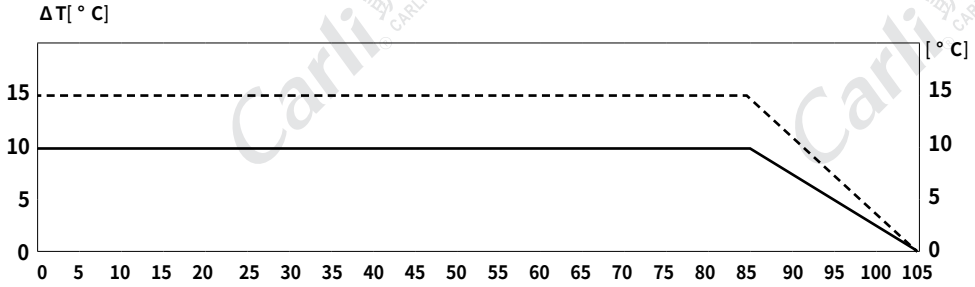
5.6.2 Method for determining the surface overtemperature of the capacitor is showed in fig.1 . The capacitor being tested must be supplied by the working AC or pulse voltage and frequency.

被测试电容器
Capacitor being tested



5.6.3 各型号电容表面允许的最大温升
Maximum self temperature rise for all series

---- MEF,MTF,MTB,MEH,MEC,MSC,MEA/MET,MEV,MEK
—— MPX, MPF, MPB, MPH, MPC, MPD,MZP,DMB,DMS,DPC,DPS,MPA/MPT,MPV,MPK,



注：如果有超出要求的请联系我们技术工程师
Note: If you need the temperature more than above,please contact our engineers.

5.7、阻燃性

仅管在薄膜电容器外封装中使用了耐火性阻燃材料-阻燃环氧树脂或塑胶壳，但外部的持续高温或火焰仍可使电容器芯子变形而产生外封破裂，导致电容器芯子熔化或燃烧。

5.7. Passive flammability

Although flame retardation epoxy resin or plastic case is used in the coating or encapsulating of plastic film capacitor,continuous outer high temperature or firing will break the coating layer or plastic case of the capacitor,and may lead to melting and firing of the capacitor element .

有焰燃烧等级 (Category of flammability)	针对电容器体积范围/Capacitor volume range(mm^3) 施加火焰时间/Applied flame time(s)				最大燃烧时间 Maximum burning time (s)
	体积≤250	250＜体积≤500	500＜体积≤1750	1750＜体积	
A	15	30	60	120	3
B	10	20	30	60	10
C	5	10	20	30	30

5.8、几种特殊工作环境

5.8.1 高湿环境

如果长时间使用在高湿环境下，电容器可能会吸收潮气、电极被氧化，导致电容器损坏。如果在AC条件下使用，高湿环境将会加剧电晕的影响，从而引起电容值下降、损耗值增加。在AC应用情况下，如果超出下表的条件，影响将会更严重，对於详细的信息请联系我们的技术工程师。

5.8. Special working conditions

5.8.1 Humidity ambient.

If used for a long time in a humid ambient,the capacitor might absorb humidity and oxidise the electrodes causing breakage of the capacitor. If cade of AC application,high humidity would increases the corona effect. This phenomenon causes a drop in the capacitance value. In case of working condition in AC appliaction is more severe than following table,please contact our engineers for detailed informations.

	Working Temperature/工作温度	Relative Humidity/相对湿度
Average for year/平均为一年	25°C	70%
2 Weeks countinuously/2周	30°C	90%

5.8.2 灌胶

如果电容器有被灌树脂，下列的情况将可能会发生：

a．树脂里的溶剂可能会影响电容器的特性；

b．在固化过程中产生的热将会损坏电容器。

5.8.3 点胶固化

我们建议SMD产品点胶固化后再插件，因为胶的固化温度过高可能会破坏插件电容器，对於必须在SMD的产品，请评估SMD产品的点胶固化温度是否适合插件产品。

5.8.2 Resin

If the capacitor is placed in resin,the following situations might occur:

a. The solvent contained the resin might deteriorate the characteristics of the capacitor;

b. The heat generated during the polymerisation might damage the capacitor.

5.8.3 Adhesive curing oven

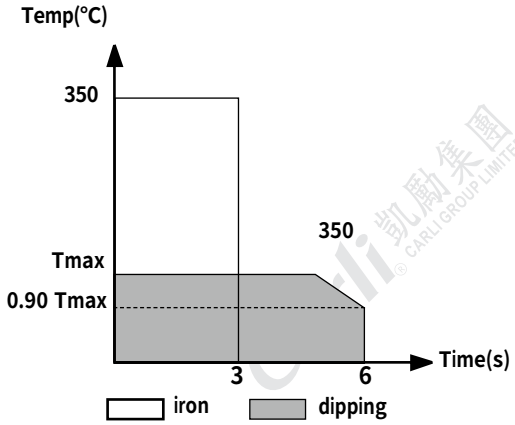
Insert leaded parts only after the adhesive curing process of SMD parts, because the high temperature in curing oven will damage the capacitor. If leaded parts must be fixed before the SMD gluing process. Please estimates the curing temperature is suitable for leaded parts.

5.9 焊接建议

为达到更好的可焊性，我们建议遵照下列的标准。

5.9.1 最大焊接温度

焊接条件按下面的焊接图表：



5.9.2

如果需要焊接两次，第二次焊接必须等到电容器恢复到常温。

5.9.3

避免插件产品和SMD产品一起做迴流焊接。

5.10、储存条件

5.10.1、由於大气中存在氢氯化物、氢硫化物、硫酸物质等，所以产品储存在大气中，必须注意引出端的可焊性会变差。

5.10.2、产品不能暴露在高温和高湿状态，必须保存在以下环境中：（在不拆开原包装的基础上）

高温：不超过35℃

湿度：不超过80%RH

引線式产品储存时间（从产品包装或产品本体上的日期算起）：

对於散装产品，不超过12个月。

对於编带产品，不超过12个月。

5.9.Soldering suggestions

In order to obtain a good solderability, we suggest to observe the following rules.

5.9.1 Max soldering temperature

Solder within the conditions mentioned in the following diagram.

	Tmax	Time	Note
预热 Pre-heating	110℃	1min	
	100℃	2min	OPP P≤7.5
焊接 Soldering	270℃	4S	
	260℃	4S	OPP P≤7.5

5.9.2

It should be done after the capacitor returned to the normal temperature, if re-working or welding twice is necessary.

5.9.3

Avioding to reflow soldering by combining the lead type with SMD parts.

5.10. Storage conditions:

5.10.1. It must be noted that the solder ability of the terminals may be deteriorated when stored in an atmosphere filled with moisture,dust,or a reactive oxidizing gas.(hydrogen chloride,hydrogen sulfide,sulfuric aicd,etc.)

5.10.2. It should not be located in particularly high temperature and high humidity, it must to submit to the following conditions(under the unchanging primal package):

Temperature:mot exceeding 35℃

Humidity:not exceeding 80% RH

Storage time for tinned lead wire:(from the date marked on the body of capacitor or the label glued to the package):

Bulk:-12 months

Taping:-12 months

6、引線式产品的包装方式 Packing For Tinned-Wire Capacitors

6.1、塑料外壳电容器径向编带说明书 Taping specification for box-type capacitor

■ 外形图 Outline Drawing（TT）

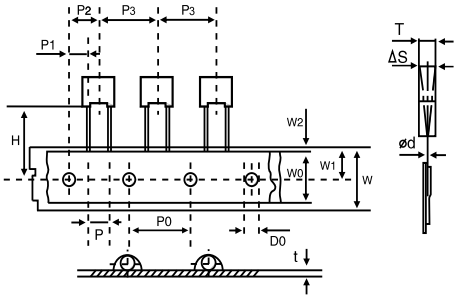


图1 Fig.1
引出線间距 P=5.0mm

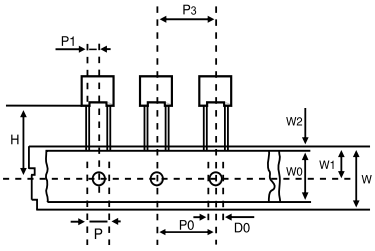


图2 Fig.2
引出線间距 P=7.5mm

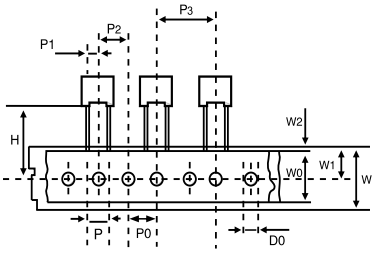


图3 Fig.3
引出線间距 P=10.0mm、15.0mm

■ 编带尺寸表 Taping Dimensions(mm)

技术指标名称	代号	尺寸				
		P=5.0	P=7.5	P=10.0	P=15.0	误差
编带类型	-	图1 Fig.1	图2 Fig.2	图3 Fig.3	图3 Fig.3	-
Part number Digit 11~12	Ammo -pack	T T	T T	T T	T T	-
电容器间距	P_3	12.7	12.7	25.4	25.4	±1.0
送带孔距	P_0	12.7	12.7	12.7	12.7	±0.2
引出線位置	P_1	3.85	3.75	5	7.5	±0.7
电容器本体位置	P_2	6.35	-	12.7	12.7	±1.3
引出線间距	P**	5.0	7.5	10.0	15.0	±0.5
电容器侧面倾料	△S	0	0	0	0	±2.0
电容器底部至带孔中心距离	H***	18.5	18.5	18.5	18.5	±0.5
纸带宽度	W	18.0	18.0	18.0	18.0	+1.0 -0.5
胶带纸宽度	W_0	6	12	12	12	min
送带孔位置	W_1	9.0	9.0	9.0	9.0	±0.5
胶带纸位置	W_2	3	3	3	3	max
送带孔直径	D_0	4.0	4.0	4.0	4.0	±0.2
编带总厚度	t	0.7	0.7	0.7	0.9	±0.2

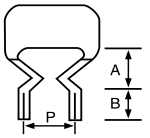
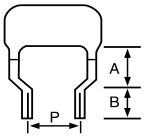
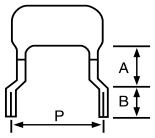
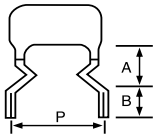
■ 包装数量 Packaging Quantity

Pitch (mm)	Box Thinknese T(mm)	Ammo-Pack (pcs/Box)	
		Domestic	Export
5.0	3.5	1700	1500
	4.5	1400	1300
	5.0	1200	1000
	6.0	1000	800
7.5	4.0	1500	1300
	5.0	1200	1000
	6.0	1000	800
	7.0	900	700
10.0	4.0	750	650
	5.0	600	500
	6.0	500	450
	7.0	500	300
15.0	7.5	400	350
	8.5	350	300
	10.0	300	250
	11.0	250	200

Note: * P0=15.0mm is also available; * P0=15.0mm是可行的;
** P can be other lead space; ** P可以是其他间距;
*** H=16.5mm is available; *** H=16.5mm是可行的;
If you need other taping,please contact us.如果需要其它编带,请联系我们.

6.2、浸渍型电容器包装说明 Paking for dipped-type capacitor

6.2.1 浸渍型电容器引出線成型形状 Lead kinked for dipped-type capacitor

代号（Code）	I	II	III	IV
成型形状 Forming shape				
适用范围 Applicable range	P≥F		P＜F	
	0mm≤(P-F)≤3mm	3mm＜(P-F)≤8mm	3mm＜(F-P)≤5mm	0mm＜(F-P)≤3mm
尺寸标准 Dimension standard	A≤5.0mm;B=4.5±0.5mm;F允许偏差为±1.0mm(The permissible tolerance of ' F ' is±1.0mm)			

6.2.2 浸渍型电容器径向编带说明 Taping For Dipped-Type Capacitor

■ 外形图 Outline Drawing（TK）

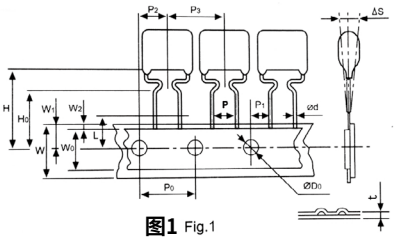


图1 Fig.1

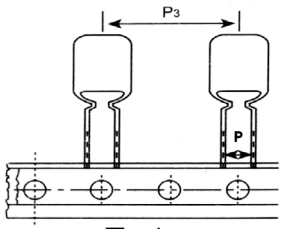


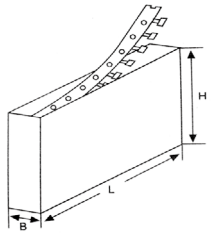
图2 Fig.2

Note:
*P0=15.0mm是可行的；
*P0=15.0mm is also available;
**P 可以是其他间距；
**P can be other lead space;

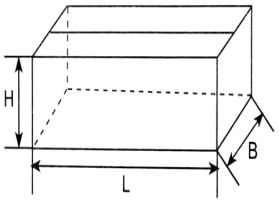
编带尺寸表 T
Aping dimensions (mm)

技术指标名称	代号	尺寸				
		P=5.0	P=7.5	P=10.0	P=15.0	误差
编带类型		Fig 1	Fig 1	Fig 2	Fig 2	
Part number Digit 11~12	Ammo-pack	TK	TK	TK	TK	
电容器间距	P3	12.7	12.7	25.4	25.4	±1.0
送带孔距	P0	12.7	12.7	12.7	12.7	±0.3
引出線位置	P1	3.85	2.60	5.0	7.5	±0.7
电容器本体位置	P2	6.35	6.35	12.7	12.7	±1.3
成形间距	P**	5.0	7.5	10.0	15.0	±0.5
电容器侧面倾料	△S	0	0	0	0	±2.0
电容器高度	H	18.5	18.5	18.5	18.5	±0.5
弯腳高度	H0	14.0	14.0	14.0	14.0	±0.5
纸带宽度	W	18.0	18.0	18.0	18.0	+1.0 -0.5
胶带纸宽度	W0	12	12	12	12	min
送带孔位置	W1	9.0	9.0	9.0	9.0	+0.75 -0.5
胶带纸位置	W2	3	3	3	3	max
送带孔直径	D0	4.0	4.0	4.0	4.0	±0.3
编带总厚度	t	0.7	0.7	0.7	0.7	±0.2

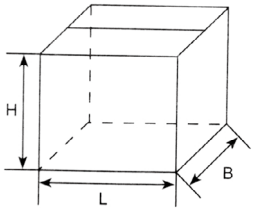
编带包装盒尺寸
Box size for Ammo-pack
L=330±3, B=48±3, H=260±3



包装箱尺寸A
Packing box for A taping(mm)
L=520±5 B=350±5 H=230±5



包装箱尺寸B
Packing box for B taping(mm)
L=335±3 B=245±3 H=215±3



7、凱励产品料号编号规则（1）

7.1.PART NUMBER举例：产品料号由18位数位组成，如下：

For example:The part number,comprising 18 digits, is formed as follows.

P	X	1	0	5	K	3	I	F	2	9	H	2	0	0	D	9	R
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

数位1~2:型号代码
Digit 1~2: Type Code
数位 3~5: 容值代码
Digit 3~5: Capacitance Value Code
数位 6:容量偏差代码
Digit 6:Capacitance Tolerance Code
数位 7~8:额定电压代码
Digit 7~8:Rated Voltage Code

数位 9~10:壳体 或 腳距代码
Digit 9~10:Case or Pitch Code
数位11和 17:型号系列码
Digit 11 and 17: Type Series Code
数位 12:引線加工型式代码
Digit 12:Lead Form Code
数位 13~15:引線长度代码
Digit 13~15:Lead Length Code

数位 16:引線长误差代码
Digit 16:Lead Length Tolerance Code
数位 18:RoHs 或 HF 符合性代码
Digit 18:RoHs or HF Compliance Type Code

7.1.1 数位 1~2:型号代码 Digit 1~2:Type Code

型号TYPE	MPX	MPF	MPH	MPB	MPA	MPT	MPV	MPC	MPK	MPR	DPS	MS3	DPC	DMB	RS3	MKP
代码CODE	PX	PF	PH	PB	PA	PT	PV	PC	PK	PR	DS	S3	DC	DB	RS	KP

型号TYPE	MSC	MSF	MEK	
代码CODE	SC	SF	AK	

7.1.2 数位3~5: 3位数位代码表示容值（Digit 3 to 5 :Capacitance Expressed in 3-digit code）

前两位表示基数,第三个数位表示其后零的个数 （The first 2 digits indicate significant figures, and the third digit specifies the number of zero to follow）

容量值单位为皮法 This gives the capacitance in picofarads.

举例 For examples: 102 =10*10² pF =1,000pF =1.0nF = 0.001uF 105 =10*10⁵ pF = 1,000,000pF =1000nF = 1uF

7.1.3 数位6 Digit 6:容量偏差 Capacitance tolerance

TOLERANCE	±1%	±2%	±3%	±5%	±10%	±20%
CODE	F	G	H	J	K	M

7.1.4 数位7~8 Digit 7 to 8:额定电压 Rated Voltage

VR(DC)	50	63	100	160	250	400	450	500	630	800	1000	1250	1600	2000	2500
CODE	1H	1J	2A	2C	2E	2G	2Y	2H	2J	2K	3A	3V	3C	3D	3E

VR(AC)	125	140	150	160	220	250	275	310	350	400	440	450	500	600	630
CODE	2L	4B	2S	2U	2P	2I	3I	2W	2F	2R	4A	2T	2M	2Z	3J

7.1.5 数位9~10 Digit 9 to 10 :表示壳体或两个数位的腳距代码（Pitch expressed by Case No or two digits）

盒装型 Box type

腳距 Pitch	7.5	10	12.5	15	20	22.5	27.5	37.5	42.5	52.5
壳体代码 Case No	B*	C*	G*	D*	S*	E*	F*	J*	K*	P*

粉涂型 Powder Coating type

腳距 Pitch	7.5	10	15	20	22.5	27.5
腳距代码 Case No	07	10	15	20	22	27

7.1.6 数位11和数位17 Digit 11 and 17:系列代码 series code

7.1.7 数位12-Digit 12:引線加工型式代码 Lead Form

代码Code	L	H
腳长形式 Lead Type		

代码Code	L	H	K	N	M
腳长形式 Lead Type					

7.1.8 数位13~15 Digit 13 to 15: 引線长度以3个数位代码表示

Lead Length (Straight): Expressed in 3-letter code 。举例example : 代码 code 200 = 200/10=20 (mm)

7.1.9 数位16 Digit 16 : 引線长度（直型）偏差 Tolerance of Lead Length (Straight) :1个字母表示， Expressed in 1-letter

TOLERANCE	±0.3 mm	±0.5 mm	+0.5/-0mm	±1mm	±2mm	±0.4mm
CODE	A	B	C	D	E	F

7.1.10 数位18 Digit 18:无鹵型

"H" Halogen-Free compliant, "R" ROHS符合型 ROHS compliant.

8、产品代码系统 Product Code System

8.1.PART NUMBER举例：产品料号由 20位数位组成，如下：

For example:The part number,comprising 20 digits, is formed as follows.

P	X	1	0	4	K	3	I	D	5	9	H	2	0	0	D	9	R	W	9
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

数位1~2:型号代码
Digit 1~2: Type Code
数位 3~5: 容值代码
Digit 3~5: Capacitance Value Code
数位 6:容量偏差代码
Digit 6:Capacitance Tolerance Code
数位 7~8:额定电压代码
Digit 7~8:Rated Voltage Code

数位 9~10:壳体 或 腳距代码
Digit 9~10:Case or Pitch Code
数位11和 17:型号系列码
Digit 11 and 17: Type Series Code
数位 12:引線加工型式代码
Digit 12:Lead Form Code
数位 13~15:引線长度代码
Digit 13~15:Lead Length Code

数位 16:引線长误差代码
Digit 16:Lead Length Tolerance Code
数位 18:RoHs 或 HF 符合性代码
Digit 18:RoHs or HF Compliance Type Code
数位 19:适用于大功率
Digit 19:Suitable for high power
数位 20:型号系列码（内部特殊码）
Digit 20:Type Series Code

8.1.1 数位 1~2:型号代码 Digit 1~2:Type Code

型号TYPE	MPX	MPF	MPH	MPB	MPV	MPC	PPS	PPN	DPS	DPC	DMB
代码CODE	PX	PF	PH	PB	PV	PC	DF	NF	DS	DC	DB

型号TYPE	MSC	MSF	MPT	MPA	
代码CODE	SC	SF	PT	PA	

8.1.2 数位3~5: 3位数位代码表示容值（Digit 3 to 5 :Capacitance Expressed in 3-digit code）

前两位表示基数,第三个数位表示其后零的个数 （The first 2 digits indicate significant figures, and the third digit specifies the number of zero to follow）

容量值单位为皮法 This gives the capacitance in picofarads.

举例 For examples: 102 =10*10² pF =1,000pF =1.0nF = 0.001uF 105 =10*10⁵ pF = 1,000,000pF =1000nF = 1uF

8.1.3 数位6 Digit 6:容量偏差 Capacitance tolerance

TOLERANCE	±1%	±2%	±3%	±5%	±10%	±20%
CODE	F	G	H	J	K	M

8.1.4 数位7~8 Digit 7 to 8:额定电压 Rated Voltage

VR(DC)	50	63	100	160	250	400	450	500	630	800	1000	1250	1600	2000	2500
CODE	1H	1J	2A	2C	2E	2G	2Y	2H	2J	2K	3A	3V	3C	3D	3E

VR(AC)	125	140	150	160	220	250	275	310	350	400	440	450	500	600	630
CODE	2L	4B	2S	2U	2P	2I	3I	2W	2F	2R	4A	2T	2M	2Z	3J

8.1.5 数位9~10 Digit 9 to 10 :表示壳体或两个数位的腳距代码（Pitch expressed by Case No or two digits）

盒装型 Box type

腳距 Pitch	7.5	10	12.5	15	20	22.5	27.5	37.5	42.5	55
壳体代码 Case No	B*	C*	G*	D*	S*	E*	F*	J*	K*	P*

粉涂型 Powder Coating type

腳距 Pitch	7.5	10	15	20	22.5	27.5
腳距代码 Case No	07	10	15	20	22	27

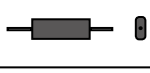
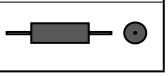
8.1.6 数位11和数位17 、20 Digit 11 and 17 and 20:系列代码 series code

8.1.7 数位12-Digit 12:引線加工型式代码 Lead Form

盒装型 Box type

代码Code	L≥27	H
腳长形式 Lead Type		

轴向型 Axial type

代码Code	L	L
腳长形式 Lead Type		

粉涂型 Powder Coating type

代码Code	L	H	K	N	M
腳长形式 Lead Type					

8.1.8 数位13~15 Digit 13 to 15: 引線长度以3个数位代码表示

Lead Length (Straight): Expressed in 3-letter code 。举例example : 代码 code 200 = 200/10=20 (mm)

8.1.9 数位16 Digit 16 : 引線长度（直型）偏差 Tolerance of Lead Length (Straight) :1个字母表示， Expressed in 1-letter

TOLERANCE	±0.3 mm	±0.5 mm	+0.5/-0mm	±1mm	±2mm	±0.4mm
CODE	A	B	C	D	E	F

8.1.10 数位18 Digit 18:无鹵型 "H" Halogen-Free compliant, "R" ROHS符合型 ROHS compliant.

8.1.11 数位19 Digit 19:适用于大功率电容 Suitable for high power

8、环境保护
ENVIRONMENTAL PROTECTION

8. 1 环境管理体系认证

为善尽企业公民的责任、保护地球、维护环境、顺应世界潮流，公司於2006年通过ISO14001:2004环境保护体系认证。

Environmental Management System Certification

To fulfill a good corporate citizen,the protection of the earth, Safeguarding the environment and adapt to world trends,Carli adopted ISO14001:2004 certification system for environmental protection system in 2006.

8.2 环境关联物质管理体系

2004年3月建立RoHS体系，2004年7月起全面实施，产品完全符合RoHS及SONY:SS00259,PHILIPS等的管理要求。

8.2.2.公司对所有供应商实施环保关联物质管理。

8.2.3.公司所有产品能满足RoHS、GS、无卤等特殊要求。

8.2.4.公司积极推进QC 080000(IECQHSPM)体系。

Materials associated with environmental management system

In March 2004 to establish RoHS system,from the full implementation of the products in full compliance with RoHS and SONY:SS00295,PHILIPS and other regulatory requirements in July 2004.

Carli asked all materials suppliers associated with the implementation of environmental management.

All products of Carli to meet RoHS,GS,halogen-free etc. other special requirements.

The Carli is ectively promoting QC O80000(IECQHSPM) system.

8.3 环保检测

2005年7月公司从日本电子（JEOL)购进X-Ray分析仪，用於对原物料及成品进行环保检测，有效保证产品的环保符合性,2010年公司又增添了一台无卤检测仪。

Environmental Testing

For the raw materials and finished products' environmental testing to ensure effective environmental protection products in compliance,The carli purchased the X-Ray Analyzer from Japanese electronics company(JEOL) on July 2005.We have added an EDX1800 analyzer for halogen-free test in 2010

8.4 无卤化

为顺应世界环保趋势，本公司从2007年就开始研究产品无卤化的问题，现在主流产品均已实现了无卤化，能满足世界各大电子企业，如APPLE、DELL、ACER、 SONY、SAMSUNG、OPPO、HWAWEI等的要求。

8.4 Halogen-Free Regulation

In order to comply with the world trend of environmental protection.CARLI began to research and develop Hologen-free products in 2007.Now our main products such as MPX MPF MEF MPB MTF etc.. Also CARLI have achieved a Halogen-free standard to meet the requirements of the world's major electronics companies such as APPLE,DELL, ACER ,SONY,SAMSUNG,OPPO,HWAWEI and so on...

8.5 无卤化产品能满足的要求：
The standard of the halogen-free comploance of CARLI products:

物质名称 (Element)	要求限值（ppm）	物质名称 (Element)	要求限值（ppm）
Br(溴)	<900	Cl(氯)	<900
Br+Cl(溴 + 氯)	<1000	BFRs(溴化阻燃剂)	ND
PBBs(多溴联苯)	ND	PBDEs(多溴联苯醚)	ND
PCB(多氯联苯)	ND	PCN(多氯代萘)	ND
PCT(多氯三联苯)	ND	PVC(聚氯乙烯)	ND
SCCP(短链型氯代烷烃)	ND	-	-

9、在订购或索要样品之前，请尽可能多地提供以下信息：

9.1. 额定工作电压：DC,AC;
9.2. 电容量及电容量允许偏差：J、K、M;
9.3. 最终产品种类：彩色电视机、显示器、开关电源，电子节能灯、镇流器、变频器、ADSL、UPS等 ；
9.4. 用途或电路图：直流迴路、交流脉冲迴路、(S校正电路、行逆程电路、尖峰吸收迴路）、电源跨线噪音抑制电路、高稳定性电路 、DC-Link、DC-filter、降压、PFC等等；
9.5. 使用条件：脉冲峰值，频率，波形，电流等等；
9.6. 使用温度；
9.7. 外形尺寸：电容器本体尺寸，引出线尺寸等等；
9.8. 形状：包封形式（浸渍型、盒式等），引出线（直脚、成型、编带）；
9.9. 安全性：当电容短路或开路时对其他部件影响，当其它部件或电路工作异常时对电容器的影响
9.10. 焊接条件：SMD、引线式；
9.11. 安装方式：PCB板、绝缘引线等。

9. When placing an order or Inquiring Sample , Please specify the following, as much as you can .

9.1. Rated voltage:DC,AC.
9.2. Capacitance value and capacitance tolerance:J,K,M etc.
9.3. Finished product: color TV,monitor,switching power,light,ballast,transducer,ADSL,UPS etc.
9.4. Application or circuit diagram: DC circuit, AC pulse circuit (S-shape correction,horizontal resonance circuit,peak absorption circuit),interface noise suppression circuit,high stability circuit DC-link,DC-filter,PFC etc.
9.5. Condition of operation:pulse peak, frequency, waveform,current etc.
9.6. Operating temperature.
9.7. Dimensions:body,lead space,etc.
9.8. Shape:enclosure(dip,case,etc),lead wire (straight,crimped,taping etc).
9.9. Safety: influence to the other component, when the capacitor gets short-circuited or open. Influence to the capacitor,when the other component or the circuit works irregularly.
9.10. Welding condition:SMD or tinned-lead-wire type.
9.11. Fixed style:PCB,insulated lead wire etc.

Metallized Polypropylene RC Snubber Network
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0: Product Code System 3 产品代码系统 3

For example: The part number,comprising 18 digits, is formed as follows.
举例： 产品料号由 18 位数位组成，如下：

R	C	5	0	4	K	2	L	E	4	1	0	2	2	A	3	0	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Digit 1~2: Type Code
数位 1~2: 型号代码
Digit 3~5: Capacitance Value Code
数位 3~5 : 容值代码
Digit 6: Capacitance Tolerance Code
数位 6: 偏差代码
Digit 7~8: Rated Voltage Code
数位 7~8: 额定电压代码
Digit 9~10: Case or Pitch Code
数位 9~10： 壳体 或 脚距代码
Digit 11: Circuit and Phase type
数位 11: 电路和相类别
Digit 12~15： Resister and Wattage Code
数位 12~15: 电阻代码
Digit 16 Lead Code
数位 16 引线代码
Digit 17 Connected Terninal Code
数位 17 连接端子代码
Digit 18 Type Series Code
数位 18 型号序列码

0.1 Digit 1 to 2 数位1~2： Type Code:型号代码

TYPE 型号	MPX	MPA	MPT	MPK	MPR	MS3	RS3	MKP	MKR	SCD	SCR	SCH	RCS
CODE 代码	PX	PA	PT	PK	PR	S3	RS	KP	KR	CD	CR	CH	RC

0.2 Digit 3 to 5 数位3~5： Capacitance Expressed in 3-digit Code 3位数位代码表示容值

The first 2 digits indicate signiticant figures,and the third digit specifies the number of zero to follow.
前两位表示基数，第三个数位表示其后零的个数
This gives the capacitance in picofarads. 容量值单位为皮法
For examples举例:504 = 50*10⁴ pF = 50,0000pF = 50.0nF = 0.5uF

0.3 Digit 6-数位6 Capacitance tolerance 容量偏差

TOLERANCE	±1%	±2%	±3%	±5%	±10%	±20%
CODE 代码	F	G	H	J	K	M

0.4 Digit 7 to 8 数位7~8：Rated Voltage 额定电压：(Note:VAC can be expressed in first two digits,such as, 480Vac code"48"

VR(AC)	24	125	250	275	400	440	450	480	500	600	660	700
CODE	1B	2L	21	31	2R	4A	2T	48	2M	2Z	66	70

0.5 Digit 9 to 10 数位9~10： Case Code by two digits 表示壳体或两个数位的脚距代码

壳体宽度W	26	32~39	40~49	50~59	60~	圆柱型
Case NO壳体代码	E*	F* or 3*	4*	5*	6*	R*

0.6 Digit 11 数位11 circuit and phase code 系列代码：

"1"circuit 1 and single-phase "V"circuit 2(RC+VDR) and single-phase
"3"circuit 1 delta connection and 3-phase "4"circuit 1,3-phaseY connection

0.7 Digit 12~15 数位 12~15：12~14 expressed resistor value,15 is the wattage code as follow

WATTAGE	1/2	1	2	5	7	9	10	15	20
CODE 代码	W	1	2	5	7	9	A	B	C

0.8 Digit 16 数位16： Lead code:Expressed in 1-letter code 引线以1个数位代码表示，exanple举例：

UL 1015	16AWG	18AWG	20AWG
CODE	1	2	3

MTW	0.8Φ	1.0Φ	1.2Φ
CODE	6	7	8

0.9 Digit 17-数位17, connected terminal code 连接端子代码

端子	无端子	250母端	圆孔片式	针刺端子	U型片式
Code	0	5	6	7	8

0.9 Digit 18-数位18: Type Series Code 型号序列码

Metallized Polypropylene RC Snubber Network **RoHs compliant**

金属化聚丙烯膜RC组件吸收网络

Type RCS

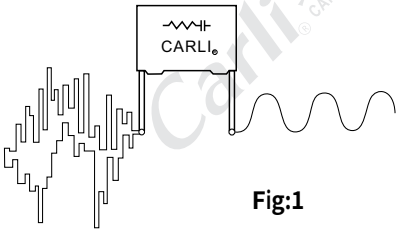

Fig:1

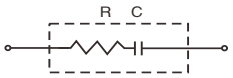

Fig:2-1

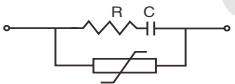

Fig:2-2 VDR

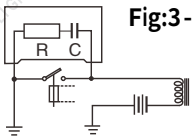

Fig:3-1

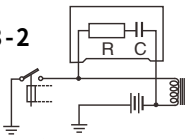

Fig:3-2

Construction:

- ◆ Metallized Polypropylene film capacitor in series with a resistor (Fig 2-1,2-2)
  构造： 金属化聚丙烯膜电容器与电阻串联而成
- ◆ Encapsulated in plaslic box or wrapped tape with retardant Epoxy Resin sealed of UL 94V-0
  塑胶壳体或胶带封装，UL94V-0级阻燃型环氧树脂填充。
- ◆ Mounting:Mounted in parallel with the contacts to be protected or in parallel wth the inductive load(Fig3-1,3-2).
  安装：分与受保护接触器并联及电感负载并联方式。
- ◆ Phase:single-phase and three-phase,分为单相和三相

Function: On electronic equipment,industrial equipment,contactors,relays,electrical control system of circuit loop,the noise or spark occurs,will be absorbed by the RC functions, Protected contacts,eliminate the noise effectively.
对电子器材，工业器材，工业设备，接触器，电器控制系统，对电路的回路，出现的火花，产生的噪音，都会被RC的功能吸收，有效保护触点，消除噪音。

- ◆ Noise and arc suppression/ Snubber Network 异音和火花消除和吸收网络
- ◆ Contactor and relay contact protection 接触器和继电器触点保护
- ◆ Good surge absorption of Magnetic switch,solenoid switch,relay and electromagnetic valve
  对磁级开关，电磁开关，继电器和电磁阀之突波有良好吸收功能
- ◆ Noise reduction on controllers and drives 控制器和驱动器噪音消除
- ◆ EMI / RFI reduction EMI / RFI 消减器
- ◆ dv / dt suppression dv / dt 抑制

Applications: RC snubber can effectively protects the contact and prevents sparks and noise,When electrical switch starts. For examples,Blender,coffee machine,printing machine,dimmers.Industrial uses:industrial machinery,Switches,motorcontrol, computer systems,telecommunications systems,automation equipment,elevators and automatic escalators.
在电器开关启动时，可有效保护接触及防止火花和噪音。例如：搅拌机，咖啡机，彩印机，调光器等。
工业用途：工业机械，开关，电机控制，电脑系统，电信系统，自动化设备，电梯和自动扶手电梯等。

Specifications

- ◆ Capacitance Range: 0.1uF,0.25UF,0.47UF,0.5UF,1.0UF or as customer requests
- ◆ Voltage Range:

V_{RAC}	24	125	250	400	480	600	660	700
V_{RDC}	24	200	900	1000	1000	1600	2000	3000

- ◆ Capacitance & Resistance Tolerance: ±10%
- ◆ Resistor Values: 22Ω,33Ω,47Ω,68Ω,82Ω,100Ω,125Ω,150Ω,220Ω,330Ω,470Ω,680Ω.(or as customer requests)
- ◆ Operating Temperature Range: -40°C~+80°C
- ◆ Dielectric Withstand Voltage: 1.6 x rated voltage at 25°C
- ◆ DC Life Test: 125% of rated voltage for a period of 500H at 80°C with capacitance change≤5%
  1.25倍额定电压下，85°C试验500H, 容量变化率不超过5%。
- ◆Long Term Stability: The capacitance shall not change more than 2% when stored at abmient temperature and humidity for a period of 2 years or less.在常温环境下储存一年内，容量变化率不超过2%。

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Type RCS-single-phase

- Box type with UL 1015 20AWG(Code 3),or 18AWG(code 2).
- Circuit type is Fig 2-1
- Maximum peak surge voltage is 1.6 times the rated DC voltage
- Temperature range: -40°C to +80°C
- We can offer other values of wattage and resistance or capacitance and voltages according to customer's requests.

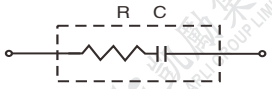


Fig:2-1

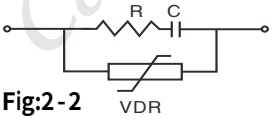


Fig:2-2

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线Lead wire	编号： P/N:
									W	H	T	L=m/m	
1	0.5	125	200	200	320	22	10	1/2	26.5	19	10	100~250	RC504K2LE41022W3*0
2	0.5	125	200	200	320	33	10	1/2	26.5	19	10	100~250	RC504K2LE41033W3*0
3	0.5	125	200	200	320	47	10	1/2	26.5	19	10	100~250	RC504K2LE41047W3*0
4	0.5	125	200	200	320	68	10	1/2	26.5	19	10	100~250	RC504K2LE41068W3*0
5	0.5	125	200	200	320	82	10	1/2	26.5	19	10	100~250	RC504K2LE41082W3*0
6	0.5	125	200	200	320	100	10	1/2	26.5	19	10	100~250	RC504K2LE41100W3*0
7	0.5	125	200	200	320	125	10	1/2	26.5	19	10	100~250	RC504K2LE41125W3*0
8	0.5	125	200	200	320	150	10	1/2	26.5	19	10	100~250	RC504K2LE41150W3*0
9	0.5	125	200	200	320	220	10	1/2	26.5	19	10	100~250	RC504K2LE41220W3*0
10	0.5	125	200	200	320	330	10	1/2	26.5	19	10	100~250	RC504K2LE41330W3*0
11	0.5	125	200	200	320	470	10	1/2	26.5	19	10	100~250	RC504K2LE41470W3*0
12	0.5	125	200	200	320	680	10	1/2	26.5	19	10	100~250	RC504K2LE41680W3*0

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线Lead wire	编号： P/N:
									W	H	T	L=m/m	
1	1	125	200	200	320	22	10	1	26	21.5	12	100~250	RC105K2LE6102213*0
2	1	125	200	200	320	33	10	1	26	21.5	12	100~250	RC105K2LE6103313*0
3	1	125	200	200	320	47	10	1	26	21.5	12	100~250	RC105K2LE6104713*0
4	1	125	200	200	320	68	10	1	26	21.5	12	100~250	RC105K2LE6106813*0
5	1	125	200	200	320	82	10	1	26	21.5	12	100~250	RC105K2LE6108213*0
6	1	125	200	200	320	100	10	1	26	21.5	12	100~250	RC105K2LE6110013*0
7	1	125	200	200	320	125	10	1	26	21.5	12	100~250	RC105K2LE6112513*0
8	1	125	200	200	320	150	10	1	26	21.5	12	100~250	RC105K2LE6115013*0
9	1	125	200	200	320	220	10	1	26	21.5	12	100~250	RC105K2LE6122013*0
10	1	125	200	200	320	220	10	2	26	21.5	12	100~250	RC105K2LE8122023*0
11	1	125	200	200	320	330	10	1	26	21.5	12	100~250	RC105K2LE6133013*0
12	1	125	200	200	320	470	10	1	26	21.5	12	100~250	RC105K2LE6147013*0
13	1	125	200	200	320	680	10	1	26	21.5	12	100~250	RC105K2LE6168013*0

Metallized Polypropylene RC Snubber Network
金属化聚丙烯膜RC组件吸收网络

Type RCS-single-phase

- Box type with UL 1015 20AWG(Code 3),or 18AWG(code 2).
- Circuit type is Fig 2-1
- Maximum peak surge voltage is 1.6 times the rated DC voltage
- Temperature range: -40°C to +80°C
- We can offer other values of wattage and resistance or capacitance and voltages according to customer's requests.

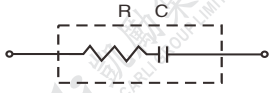


Fig:2-1

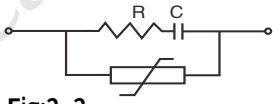


Fig:2-2

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线Lead wire	编号： P/N:
									W	H	T	L=m/m	
1	0.1	250	900	400	1450	22	10	1	26.5	19	10	100~250	RC104K2IE4102213*0
2	0.1	250	900	400	1450	33	10	1	26.5	19	10	100~250	RC104K2IE4103313*0
3	0.1	250	900	400	1450	47	10	1	26.5	19	10	100~250	RC104K2IE4104713*0
4	0.1	250	900	400	1450	68	10	1	26.5	19	10	100~250	RC104K2IE4106813*0
5	0.1	250	900	400	1450	82	10	1	26.5	19	10	100~250	RC104K2IE4108213*0
6	0.1	250	900	400	1450	100	10	1	26.5	19	10	100~250	RC104K2IE4110013*0
7	0.1	250	900	400	1450	125	10	1	26.5	19	10	100~250	RC104K2IE4112513*0
8	0.1	250	900	400	1450	150	10	1	26.5	19	10	100~250	RC104K2IE4115013*0
9	0.1	250	900	400	1450	220	10	1	26.5	19	10	100~250	RC104K2IE4122013*0
10	0.1	250	900	400	1450	330	10	1	26.5	19	10	100~250	RC104K2IE4133013*0
11	0.1	250	900	400	1450	470	10	1	26.5	19	10	100~250	RC104K2IE4147013*0
12	0.1	250	900	400	1450	680	10	1	26.5	19	10	100~250	RC104K2IE4168013*0

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线Lead wire	编号： P/N:
									W	H	T	L=m/m	
1	0.25	250	900	400	1450	22	10	1	26	21.5	12	100~250	RC254k2IE6102213*0
2	0.25	250	900	400	1450	33	10	1	26	21.5	12	100~250	RC254k2IE6103313*0
3	0.25	250	900	400	1450	47	10	1	26	21.5	12	100~250	RC254k2IE6104713*0
4	0.25	250	900	400	1450	68	10	1	26	21.5	12	100~250	RC254k2IE6106813*0
5	0.25	250	900	400	1450	82	10	1	26	21.5	12	100~250	RC254k2IE6108213*0
6	0.25	250	900	400	1450	100	10	1	26	21.5	12	100~250	RC254k2IE61010013*0
7	0.25	250	900	400	1450	125	10	1	26	21.5	12	100~250	RC254k2IE61012513*0
8	0.25	250	900	400	1450	150	10	1	26	21.5	12	100~250	RC254k2IE61015013*0
9	0.25	250	900	400	1450	220	10	1	26	21.5	12	100~250	RC254k2IE61022013*0
10	0.25	250	900	400	1450	330	10	1	26	21.5	12	100~250	RC254k2IE61033013*0
11	0.25	250	900	400	1450	470	10	1	26	21.5	12	100~250	RC254k2IE61047013*0
12	0.25	250	900	400	1450	680	10	1	26	21.5	12	100~250	RC254k2IE61068013*0

Metallized Polypropylene RC Snubber Network
金属化聚丙烯膜RC组件吸收网络

Type RCS-single-phase

- Box type with UL 1015 20AWG(Code 3),or 18AWG(code 2).
- Circuit type is Fig 2-1
- Maximum peak surge voltage is 1.6 times the rated DC voltage
- Temperature range: -40°C to +80°C
- We can offer other values of wattage and resistance or capacitance and voltages according to customer's requests.

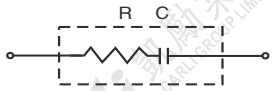


Fig:2-1

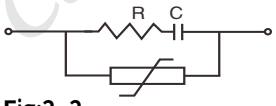


Fig:2-2

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线 Lead wire L=m/m	编号： P/N:
									W	H	T		
1	0.47	250	900	400	1450	22	10	1	38	24	13	100~250	RC474K213a102213*0
2	0.47	250	900	400	1450	33	10	1	38	24	13	100~250	RC474K213a103313*0
3	0.47	250	900	400	1450	47	10	1	38	24	13	100~250	RC474K213a104713*0
4	0.47	250	900	400	1450	68	10	1	38	24	13	100~250	RC474K213a106813*0
5	0.47	250	900	400	1450	82	10	1	38	24	13	100~250	RC474K213a110013*0
6	0.47	250	900	400	1450	100	10	1	38	24	13	100~250	RC474K213a112513*0
7	0.47	250	900	400	1450	125	10	1	38	24	13	100~250	RC504K213a115013*0
8	0.47	250	900	400	1450	150	10	1	38	24	13	100~250	RC474K213a122013*0
9	0.47	250	900	400	1450	220	10	1	38	24	13	100~250	RC474K213a122013*0
10	0.47	250	900	400	1450	220	10	2	40	28	16	100~250	RC474K213a122013*0
11	0.47	250	900	400	1450	330	10	1	38	24	13	100~250	RC474K213a133013*0
12	0.47	250	900	400	1450	470	10	1	38	24	13	100~250	RC474K213a147013*0
13	0.47	250	900	400	1450	680	10	1	38	24	13	100~250	RC474K213a168013*0

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线 Lead wire	编号： P/N:
									W	H	T		
1	0.1	400	1000	640	1600	125	10	1	26	21.5	12	100~250	RC104K2RE6112513*0
2	0.22	400	1000	640	1600	100	10	1	26	21.5	12	100~250	RC224K2RE6110013*0
3	0.22	400	1000	640	1600	220	10	2	32	25	15	100~250	RC224K2R36122021*0
4	0.33	400	1000	640	1600	220	10	3	38	24	13.5	100~250	RC334K2R3P122031*0
5	0.33	400	1000	640	1600	27	10	3	38	24	13.5	100~250	RC334K2R3P102731*0
6	0.47	400	1000	640	1600	100	10	1	38	24	13.5	100~250	RC474K2R3P110012*0
7	0.47	400	1000	640	1600	220	10	2	40	28	16	100~250	RC474K2R42122021*0

Metallized Polypropylene RC Snubber Network
金属化聚丙烯膜RC组件吸收网络

Type RCS-single-phase

- Box type with UL 1015 20AWG(Code 3),or 18AWG(code 2).
- Circuit type is Fig 2-1
- Maximum peak surge voltage is 1.6 times the rated DC voltage
- Temperature range: -40°C to +80°C
- We can offer other values of wattage and resistance or capacitance and voltages according to customer's requests.

Fig:2-1

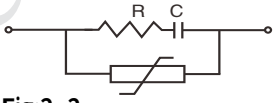


Fig:2-2

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线 Lead wire L=m/m	编号： P/N:
									W	H	T		
1	1.5	480	1000	770	1600	20	10	5	42	44	24	100-350 mm, UL 18#/ 16#	RC155K484W102051*0
2	1.5	480	1000	770	1600	20	10	5	50	34	22		RC155K4852102051*0
3	2	480	1000	770	1600	220	10	5	42	44	24		RC205K484W122051*0
4	2.5	480	1000	770	1600	125	10	5	42	44	24		RC255K484W112551*0
5	3.3	480	1000	770	1600	5	10	5	57.5	45	30		RC335K485F100551*0

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	最高峰值电压 AC-V_{PP}	最高峰值电压 DC-V_{PP}	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线 Lead wire L=m/m	编号： P/N:
									W	H	T		
1	0.047	480	1000	770	1600	100	10	15	60	43	30	100-350 mm, UL 18#/ 16#	RC473K48681100B2*0
2	0.047	480	1000	770	1600	125	10	5	60	43	30		RC473K4868112552*0
3	0.047	600	1600	960	2560	100	10	20	60	50	35		RC473K2Z6B1100C2*0
4	0.047	600	1600	960	2560	125	10	5	60	43	30		RC473K2Z68112551*0
5	0.1	480	1000	770	1600	47	10	2	40	29	19		RC104K4843104722*0
6	0.1	600	1600	960	1600	220	10	2	40	29	19		RC104K2Z43122022*0
7	0.1	600	2000	1040	3200	47	10	2	40	29	19		RC104K2Z43104722*0
8	0.22	480	1000	770	1600	27	10	3	42	30	22		RC224K484R102731*0
9	0.5	480	1000	770	1600	15	10	5	57.5	45	25		RC504K4856101551*0
10	0.5	480	1000	770	1600	15	10	5	/	L62	D40		RC504K48R2101551*1
11	0.5	480	1000	770	1600	100	10	5	57.5	45	25		RC504K4856110051*0
12	0.5	480	1000	770	1600	220	10	2	60	39	25		RC504K4864122021*0
13	1	480	1000	770	1600	100	10	10	57.5	50	35		RC105K485E1100A1*0

Metallized Polypropylene RC Snubber Network
金属化聚丙烯膜RC组件吸收网络

Type RCS-single-phase

- Box type with UL 1015 20AWG(Code 3),or 18AWG(code 2).
- Circuit type is Fig 2-2
- Maximum peak surge voltage is 1 times the rated DC voltage
- Temperature range: -40℃ to +80℃
- We can offer other values of wattage and resistance or capacitance and voltages according to customer's requests.

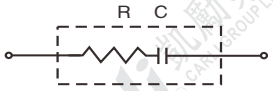


Fig:2-1

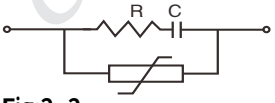
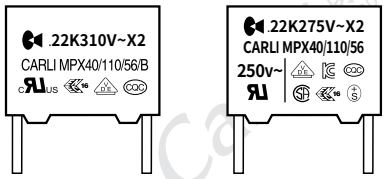
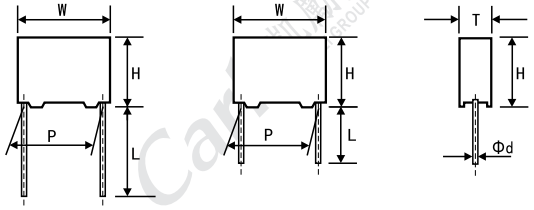


Fig:2-2

容量 cap.(uF)		额定电压 U_{RAC}	额定电压 U_{RDC}	电压电阻 VDR	电阻值 OHMS	偏差值 Tol. (±%)	功率 POWER (瓦特 W)	尺寸Dimensions			电线Lead Wire L=m/m	编号： P/N:
								W	H	T		
1	0.47	24	24	5/7N560K	220	10	1/2	32	22	13	150mm	RC474K1BF2V220W3**
2	0.47	24	24	5/7N560K	220	10	1/2	32	22	13	P29	RC474K1BF2V220W6**
3	0.22	110	110	5/7N221K	47	10	1/2	32	22	13	150mm	RC224K1BF2V047W3**
4	0.22	110	110	5/7N221K	47	10	1/2	32	22	13	P29	RC224K1BF2V047W6**
5	0.22	250	250	5/7N471K	220	10	1	32	22	13	150mm	RC224K2IF2V22013**
6	0.22	250	250	5/7N471K	220	10	1	32	22	13	P29	RC224K2IF2V22016**

金属化聚丙烯膜抑制干扰用固定电容器（X2 类别，275Vac、310Vac）
Metallized Polypropylene Film Interference Suppression capacitor （Class X2）





特点

- 金属化聚丙烯膜，无感捲绕结构
- 能承受过电压冲击
- 自愈性好
- 阻燃型壳体和环氧树脂（符合UL 94V-0）

Features:

- Metallized Polypropylene film , Non-inductive wound construction
- Withstanding overvoltage stressing
- Excelent Self-healing property
- Plastic case Flame retardant epoxy resin sealed (compliance with UL 94V-0)

典型应用

● 广泛用於电源跨線电路等抗干扰场合，适用於使用的电容器失效后不会导致触电的危险场合。

Applications:

● Interference suppressors and across-the-line capacitor applications . Suitable for used in situations where failure of the capacitor will not lead to danger of electric shock.

技术要求/Specifications

电容器类别/Class	X2	
气候类别和阻燃等级 Climatic Category and Passive Flammability Category	40/100/56/B, 40/110/56/B	
下限类别温度/Lower category temperature	-40°C	
上限类别温度/Upper category temperature	+100°C, +110°C	
额定电压/Rated voltage	275VAC, 310VAC	
容量范围/Capacitance range	0.01μF～25μF	
容差/Capacitance tolerance	±10% (K),±20% (M)	
耐电压/Voltage Proof	引出端之间 Between Terminals	4.3V_R(VDC), 1min
	引出端与外壳之间 Between Terminals To Case	(1500+2V_R) Vac , 1min
损失角/Dissapation factor	≤0.1% (1KHz at 20~25°C,0.01μF~10μF) ≤0.3% (1KHz at 20-25°C,＞10μF)	
绝缘电阻/Insulation Resistance	≥15 000MΩ，C_R≤0.33μF	(23°C,100V,1min,50%~55%RH)
	≥5 000 s，C_R > 0.33μF	

安全认证/Safety Approvals

NO.	Safety Mark 安全认证标志	Country Type 国家	Certificate No.(认证号)
1	CQC	CQC (中国)	CQC12001069597(275/110), CQC12001069504(310/100), CQC12001069506(275/100), CQC12001069596(310/110),
2	cULus	UL/CUL (美国/加拿大)	E120045
3	ENEC 16	ENEC (欧盟)	ENEC16/FI/19/10077/AI
4	VDE	VDE (德国)	40008520
5	CSA	CSA 加拿大	1490346(LR 88249)
6	KTL	KTL (韩国)	SU03015-3001C
7	SEV	SEV 瑞士	15.0660
8	CB TEST CERTIFICATE		FI 44488

外形尺寸 Dimensions(mm)

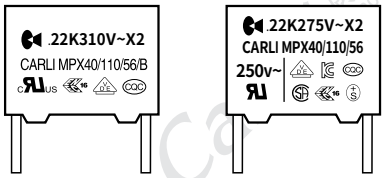
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	Part number
0.01	10.5	9	4	7.5	0.6	PX103K3IB1■●□□□⊙■R
0.015	10.5	9	4	7.5	0.6	PX153K3IB1■●□□□⊙■R
0.022	10.5	9	4	7.5	0.6	PX223K3IB1■●□□□⊙■R
0.033	10.5	10	4	7.5	0.6	PX333K3IB2■●□□□⊙■R
0.047	10.5	11	5	7.5	0.6	PX473K3IB3■●□□□⊙■R
0.068	10.5	12	6	7.5	0.6	PX683K3IB4■●□□□⊙■R
0.1	10.5	13.5	7	7.5	0.6	PX104K3IB5■●□□□⊙■R
0.015	13	9	4	10	0.6	PX153K3IC1■●□□□⊙■R
0.022	13	11	5	10	0.6	PX223K3IC2■●□□□⊙■R
0.033	13	11	5	10	0.6	PX333K3IC2■●□□□⊙■R
0.047	13	11	5	10	0.6	PX473K3IC2■●□□□⊙■R
0.068	13	11	5	10	0.6	PX683K3IC2■●□□□⊙■R
0.1	13	12	6	10	0.6	PX104K3IC3■●□□□⊙■R
0.15	13	12.5	7	10	0.6	PX154K3IC4■●□□□⊙■R
0.22	13	16	8	10	0.6	PX224K3IC5■●□□□⊙■R
0.33	13	19	9	10	0.8	PX334K3IC6■●□□□⊙■R
0.47	13	21	11.5	10	0.8	PX474K3IC7■●□□□⊙■R
0.15	14	11.5	7	12.5	0.6	PX154K3IG3■●□□□⊙■R
0.22	14	13.5	8.5	12.5	0.6	PX224K3IG4■●□□□⊙■R
0.33	14	16.5	8.5	12.5	0.6	PX334K3IG42●□□□⊙■R
0.33	14	15.5	10	12.5	0.6	PX334K3IG5■●□□□⊙■R
0.47	14	17	10	12.5	0.6	PX474K3IG6■●□□□⊙■R
0.022	18	11	5	15	0.6	PX223K3ID1■●□□□⊙■R
0.033	18	11	5	15	0.6	PX333K3ID1■●□□□⊙■R
0.047	18	11	5	15	0.6	PX473K3ID1■●□□□⊙■R
0.068	18	11	5	15	0.6	PX683K3ID1■●□□□⊙■R
0.1	18	11	5	15	0.6	PX104K3ID1■●□□□⊙■R
0.1	18	12	6	15	0.8	PX104K3ID2■●□□□⊙■R
0.15	18	12	6	15	0.8	PX154K3ID2■●□□□⊙■R
0.22	18	13	6.5	15	0.8	PX224K3ID25●□□□⊙■R
0.22	18	13.5	7.5	15	0.8	PX224K3ID3■●□□□⊙■R
0.22	18	14.5	8.5	15	0.8	PX224K3ID4■●□□□⊙■R
0.33	18	15	7	15	0.8	PX334K3ID33●□□□⊙■R
0.33	18	14.5	8.5	15	0.8	PX334K3ID4■●□□□⊙■R
0.47	18	17	8.5	15	0.8	PX474K3ID42●□□□⊙■R
0.47	18	16	10	15	0.8	PX474K3ID5■●□□□⊙■R
0.47	18	18.5	11	15	0.8	PX474K3ID6■●□□□⊙■R
0.68	18	18.5	11	15	0.8	PX684K3ID6■●□□□⊙■R
0.68	22.5	17	10	20	0.8	PX684K3IS3■●□□□⊙■R
1.0	22.5	20.5	12	20	0.8	PX105K3IS4■●□□□⊙■R

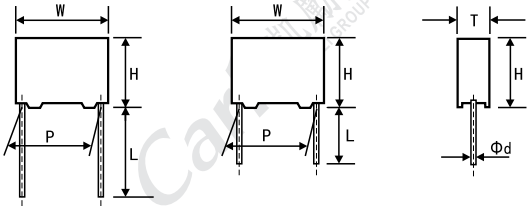
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	Part number
0.15	26.5	15	6	22.5	0.8	PX154K3IE1■●□□□⊙■R
0.22	26.5	15	6	22.5	0.8	PX224K3IE1■●□□□⊙■R
0.33	26.5	17	7	22.5	0.8	PX334K3IE2■●□□□⊙■R
0.33	26.5	17	8.5	22.5	0.8	PX334K3IE3■●□□□⊙■R
0.47	26.5	17	8.5	22.5	0.8	PX474K3IE3■●□□□⊙■R
0.47	26.5	19	10	22.5	0.8	PX474K3IE4■●□□□⊙■R
0.68	26.5	19	10	22.5	0.8	PX684K3IE4■●□□□⊙■R
1.0	26	20	11	22.5	0.8	PX105K3IE5■●□□□⊙■R
1.5	26	21.5	12	22.5	0.8	PX155K3IE6■●□□□⊙■R
2.2	26	25	16.5	22.5	0.8	PX225K3IE8■●□□□⊙■R
0.47	30	17.5	10	27.5	0.8	PX474K3IF0■●□□□⊙■R
0.68	30	17.5	10	27.5	0.8	PX684K3IF0■●□□□⊙■R
1.0	30	17.5	10	27.5	0.8	PX105K3IF0■●□□□⊙■R
1.0	32	22	13	27.5	0.8	PX105K3IF2■●□□□⊙■R
1.5	32	22	13	27.5	0.8	PX155K3IF2■●□□□⊙■R
1.5	32	25	15	27.5	0.8	PX155K3IF3■●□□□⊙■R
2.2	32	25	15	27.5	0.8	PX225K3IF3■●□□□⊙■R
2.2	32	30	18	27.5	0.8	PX225K3IF4■●□□□⊙■R
3.3	32	33	18	27.5	0.8	PX335K3IF5■●□□□⊙■R
3.3	41	30	15	37.5	0.8	PX335K3IJ1■●□□□⊙■R
4.7	41	32	19	37.5	1.0	PX475K3IJ2■●□□□⊙■R
6.8	41	40	20	37.5	1.0	PX685K3IJ3■●□□□⊙■R
10	41	45	30	37.5	1.0	PX106K3IJ4■●□□□⊙■R
0.82	45	15	8	42.5	0.8	PX824K3IK1■●□□□⊙■R
1.0	45	16	9.5	42.5	0.8	PX105K3IK2■●□□□⊙■R
1.5	45	19	11	42.5	0.8	PX155K3IK3■●□□□⊙■R
2.2	45	22	12.5	42.5	0.8	PX225K3IK4■●□□□⊙■R
3.3	45	25	15.5	42.5	0.8	PX335K3IK5■●□□□⊙■R
4.7	45	29	18.5	42.5	1.0	PX475K3IK6■●□□□⊙■R
6.8	45	34	21.5	42.5	1.0	PX685K3IK7■●□□□⊙■R
8.2	45	41	25	42.5	1.0	PX825K3IK8■●□□□⊙■R
10	45	41	25	42.5	1.0	PX106K3IK8■●□□□⊙■R
6.8	59.5	39	22	52.5/55	1.0	PX685K3IP1■●□□□⊙■R
8.2	59.5	39	22	52.5/55	1.0	PX825K3IP1■●□□□⊙■R
10	59.5	39	22	52.5/55	1.0	PX106K3IP1■●□□□⊙■R

备注：
1. “ * ” 表示容量误差。
2."■"表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4."□□□"表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.

1. "*"=capacitance tolerance code, K=±10%, M=±20%.
2."■"=Internal use。
3."●"=Lead Form Code ：“ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”，“ 200 ”，“ 035 ”……
5."⊙"=Lead Length Tolerance Code ：“ ±0.3 ”，“ ±0.5，“ ±1 ”……
6. "R"=ROHS compliant.
"H"=Halogen-Free compliant.

金属化聚丙烯膜抑制干扰用固定电容器（X2 类别275Vac、310Vac）-防爆防潮型
Metallized Polypropylene Film Interference Suppression capacitor （Class X2）-Explosion-proof moisture proof





特点
- 金属化聚丙烯膜，无感捲绕结构
- 能承受过电压冲击
- 安全型结构，高稳定性和可靠性
- 防爆防潮型（THB 500H）
- 阻燃型壳体和环氧树脂（符合UL 94V-0）

典型应用
- 广泛用於电源跨線电路等抗干扰应用，适用於使用的电容器失效后不会导致触电的危险的场合

Features
- Metallized Polypropylene film , Non-inductive wound construction
- Withstanding overvoltage stressing
- Safety structure,High stability and reliability
- 85°C、85%RH & 500H △C/C≤10%
- Plastic case Flame retardant epoxy resin sealed（compliance with UL 94V-0）

Applications
- Interference suppressors and across-the-line capacitor applications . Suitable for used in situations where failure of the capacitor will not lead to danger of electric shock

技术要求/Specifications

电容器类别/Class	X2	
引用标准/Reference Standard	IEC 60384-14	
气候类别和阻燃等级 Climatic Category and Passive Flammability Category	40/100/56/B, 40/110/56/B	
下限类别温度/Lower category temperature	-40°C	
上限类别温度/Upper category temperature	+100°C, +110°C	
额定电压/Rated voltage	275VAC, 310VAC	
容量范围/Capacitance range	0.01μF～25μF	
容差/Capacitance tolerance	±10% (K),±20% (M)	
耐电压/Voltage Proof	引出端之间 Between Terminals	4.3V_R(VDC), 1min
	引出端与外壳之间 Between Terminals To Case	(1500+2V_R) Vac , 1min
损失角/Dissapation factor	≤0.1% (1KHz at 20~25°C, 0.01μF~10μF) ≤0.3% (1KHz at 20~25°C,＞10μF)	
绝缘阻抗/Insulation Resistance	≥15 000MΩ，C_R≤0.33μF	(at 100 VDC,60S 23°C,50%～55%RH)
	≥5 000 s，C_R > 0.33μF	

安全认证/Safety Approvals

NO.	Safety Mark 安全认证标志	Country Type 国家	Certificate No.(认证号)
1	CQC	CQC (中国)	CQC12001069597(275/110), CQC12001069504(310/100), CQC12001069506(275/100), CQC12001069596(310/110),
2	cULus	UL/CUL (美国/加拿大)	E120045
3	EK 16	ENEC (欧盟)	ENEC16/FI/19/10077/AI
4	VDE	VDE (德国)	40008520
5	SA	CSA 加拿大	1490346(LR 88249)
6	KC	KTL (韩国)	SU03015-3001C
7	+S	SEV 瑞士	15.0660
8	CB TEST CERTIFICATE		FI 44488

备注：如客户有特别要求，可按客户要求生产。
Note:If the customer has special requirements,it can be produced according to customer requirements.

外形尺寸 Dimensions(mm)

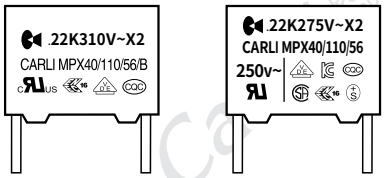
275VAC						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	Part number
0.1	18	12.5	7	15	0.8	PX104K3ID18●□□□⊙CR
0.22	18	14.5	8.5	15	0.8	PX224K3ID48●□□□⊙CR
0.33	18	17	10	15	0.8	PX334K3ID58●□□□⊙CR
0.33	26.5	14.5	10	22.5	0.8	PX334K3IE26●□□□⊙CR
0.47	26.5	14.5	10	22.5	0.8	PX474K3IE26●□□□⊙CR
0.47	26.5	18.0	8.5	22.5	0.8	PX474K3IE27●□□□⊙CR
0.47	31.5	14.5	14.5	27.5	0.8	PX474K3IF2L●□□□⊙CR
0.68	26.5	17.0	11	22.5	0.8	PX684K3IE32●□□□⊙CR
0.68	31.5	14.5	14.5	27.5	0.8	PX684K3IF2L●□□□⊙CR
1.00	32	25.0	15	27.5	0.8	PX105K3IF3W●□□□⊙CR
2.20	32	30.0	18	27.5	0.8	PX225K3IF4W●□□□⊙CR
3.30	32	33.0	18	27.5	0.8	PX335K3IF5S●□□□⊙CR
4.70	42	30.0	17.0	37.5	1.0	PX475K3IJ11●□□□⊙CR
10.00	42	42.5	28	37.5	1	PX106K3IJ31●□□□⊙CR

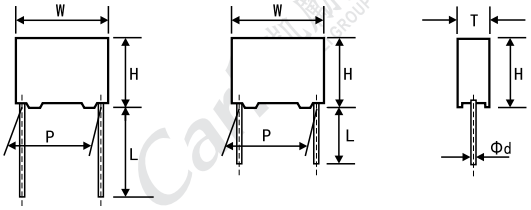
310VAC						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	Part number
0.1	18	13.5	7.5	15	0.8	PX104K2W28●□□□⊙CR
0.22	18	18	11	15	0.8	PX224K2W63●□□□⊙CR
0.33	26.5	14.5	8.5	22.5	0.8	PX334K2W25●□□□⊙CR
0.33	26.5	18	8.5	22.5	0.8	PX334K2W27●□□□⊙CR
0.47	26.5	18.0	11.5	22.5	0.8	PX474K2W33●□□□⊙CR
0.47	31.5	14.5	14.5	27.5	0.8	PX474K2W2L●□□□⊙CR
0.68	26.5	20.5	14	22.5	0.8	PX684K2W28●□□□⊙CR
0.68	31.5	14.5	16.5	27.5	0.8	PX684K2W4L●□□□⊙CR
1.00	32	25.0	15	27.5	0.8	PX105K2W3W●□□□⊙CR

备注：
1. “ * ” 表示容量误差。
2."■"表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4."□□□"表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.

1. "*"=capacitance tolerance code, K=±10%, M=±20%.
2."■"=Internal use。
3."●"=Lead Form Code ：“ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”，“ 200 ”，“ 035 ”……
5."⊙"=Lead Length Tolerance Code ：“ ±0.3 ”，“ ±0.5，“ ±1 ”……
6. "R"=ROHS compliant.
"H"=Halogen-Free compliant.

金属化聚丙烯膜抑制干扰用固定电容器（X2 类别275Vac、310Vac）-防潮型
Metallized Polypropylene Film Interference Suppression capacitor （Class X2）-Moistureproof type





特点
- 金属化聚丙烯膜，无感捲绕结构
- 能承受过电压冲击
- 高稳定性和可靠性
- 防潮型（THB 500~1000H）
- 阻燃型壳体和环氧树脂（符合UL 94V-0）

典型应用
- 广泛用於电源跨線电路等抗干扰应用，适用於使用的电容器失效后不会导致触电的危险的场合

Features
- Metallized Polypropylene film , Non-inductive wound construction
- Withstanding overvoltage stressing
- High stability and reliability
- 85°C、85%RH & 500~1000H △C/C≤10%
- Plastic case Flame retardant epoxy resin sealed（compliance with UL 94V-0）

Applications
- Interference suppressors and across-the-line capacitor applications . Suitable for used in situations where failure of the capacitor will not lead to danger of electric shock

技术要求/Specifications

电容器类别/EMI Suppression capacitors (X2 Class)	X2	
引用标准/Reference Standard	IEC 60384-14	
气候类别和阻燃等级 Climatic Category and Passive Flammability Category	40/100/56/B, 40/110/56/B	
下限类别温度/Lower category temperature	-40°C	
上限类别温度/Upper category temperature	+100°C, +110°C	
额定电压/Rated voltage	275VAC, 310VAC	
容量范围/Capacitance range	0.01μF～25μF	
容差/Capacitance tolerance	±10% (K),±20% (M)	
耐电压/Voltage Proof	引出端之间 Between Terminals	4.3V_R(VDC), 1min
	引出端与外壳之间 Between Terminals To Case	(1500+2V_R) Vac , 1min
损失角/Dissapation factor	≤0.1% (1KHz at 20~25°C,0.01μF-10μF) ≤0.3% (1KHz at 20~25°C,＞10μF)	
绝缘阻抗/Insulation Resistance	≥15 000MΩ，C_R≤0.33μF	(at 100 VDC,60S 20～25°C,50%～55%RH)
	≥5 000 s，C_R > 0.33μF	

安全认证/Safety Approvals

NO.	Safety Mark 安全认证标志	Country Type 国家	Certificate No.(认证号)
1	CQC	CQC (中国)	CQC12001069597(275/110), CQC12001069504(310/100), CQC12001069506(275/100), CQC12001069596(310/110),
2	cULus	UL/CUL (美国/加拿大)	E120045
3	EK16	ENEC/FI (欧盟)	ENEC16/FI/19/10077/AI
4	VDE	VDE (德国)	40008520
5	SA	CSA 加拿大	1490346(LR 88249)
6	KC	KTL (韩国)	SU03015-3001C
7	+S	SEV 瑞士	15.0660
8	CB TEST CERTIFICATE		FI 44488

备注：如客户有特别要求，可按客户要求生产。
Note:If the customer has special requirements,it can be produced according to customer requirements.

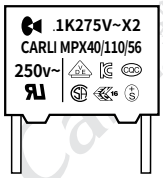
外形尺寸 Dimensions(mm)

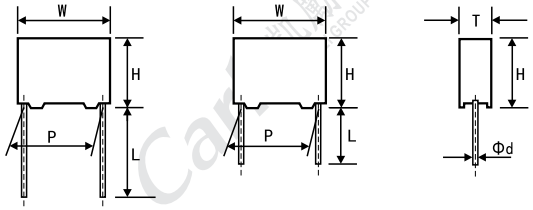
275VAC/310VAC（双85）						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	CARLI P/N
0.1	18	12.5	7	15.0	0.8	PX104K2WD18●□□□⊙JR
0.22	18	14.5	8.5	15.0	0.8	PX224K2WD48●□□□⊙JR
0.33	18	17.0	10	15.0	0.8	PX334K2WD58●□□□⊙JR
0.47	18	24.0	9.0	15.0	0.8	PX474K2WD76●□□□⊙JR
0.56	18	22.0	11	15.0	0.8	PX564K2WD74●□□□⊙JR
0.68	18	23.0	11.7	15.0	0.8	PX684K2WD73●□□□⊙JR
0.68	18	22.0	11	15.0	0.8	PX684K2WD74●□□□⊙JR
0.82	18	22.0	13	15.0	0.8	PX824K2WD79●□□□⊙JR
1	18	23.0	16	15.0	0.8	PX105K2WD72●□□□⊙JR
0.22	26.5	14.5	8.5	22.5	0.8	PX224K2WE25●□□□⊙JR
0.33	26.5	14.5	10	22.5	0.8	PX334K2WE26●□□□⊙JR
0.47	26.5	18.0	8.5	22.5	0.8	PX474K2WE27●□□□⊙JR
0.56	26.5	18.0	8.5	22.5	0.8	PX564K2WE27●□□□⊙JR
0.68	26.5	17.0	11	22.5	0.8	PX684K2WE32●□□□⊙JR
0.82	26.5	20.5	14	22.5	0.8	PX824K2WE28●□□□⊙JR
1	26	21.5	12	22.5	0.8	PX105K2WE69●□□□⊙JR
2.2	26	30	16.5	22.5	0.8	PX225K2WE84●□□□⊙JR
0.82	32	22.0	13	27.5	0.8	PX824K2WF29●□□□⊙JR
1	32	22.0	13	27.5	0.8	PX105K2WF29●□□□⊙JR
1.5	32	25.0	15	27.5	0.8	PX155K2WF39●□□□⊙JR
2.2	32	30	18	27.5	0.8	PX225K2WF49●□□□⊙JR
3.3	32	33.0	18	27.5	0.8	PX335K2WF59●□□□⊙JR
4.7	42	30.0	17	37.5	1.0	PX475K3IJ1W●□□□⊙JR
10	42	42.5	28	37.5	1.0	PX106K3IJ3W●□□□⊙JR

备注：
1. “*”表示电压 2W表示310VAC,3I表示275VAC。
2. “●”表示引線加工形式代码。
3."□□□"表示引線长度代码。
4. “⊙”表示引線长度误差代码。
5."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.

1. "*" = Means Voltage 2w Means 310VAC,3I Means 275VAC
2."●"=Lead Form Code ：“L","H","K","M","N"……
3. "□□□"=Lead Length Code ：“270”，“200”，“035”……
4."⊙"=Lead Length Tolerance Code ：“±0.3”，“±0.5，“±1”……
5. "R"=ROHS compliant.
"H"=Halogen-Free compliant.

金属化聚丙烯膜抑制干扰用固定电容器（X2 类别275Vac、310Vac）-大功率
Metallized Polypropylene Film Interference Suppression capacitor（Class X2 275Vac/310Vac）-High power type





特点
- 金属化聚丙烯膜，无感捲绕结构
- 优良的耐湿性
- 自愈性好
- 阻燃型壳体和环氧树脂（符合UL 94V-0）
- 大功率电源适用品（低功耗、较大脉冲电流）

Features
- Metallized Polypropylene film , Non-inductive wound construction
- Withstanding overvoltage stressing
- Excelent Self-healing property
- Plastic case Flame retardant epoxy resin sealed(compliance with UL 94V-0)
- Suitable for high-power power supply (low power consumption、High current)

典型应用
- 广泛用於电源跨線电路等抗干扰应用，适用於使用的电容器失效后不会导致触电的危险的场合

Applications
- Interference suppressors and across-the-line capacitor applications . Suitable for used in situations where failure of the capacitor will not lead to danger of electric shock

技术要求/Specifications

电容器类别/EMI Suppression capacitors (X2 Class)	X2	
引用标准/Reference Standard	IEC 60384-14	
气候类别和阻燃等级 Climatic Category and Passive Flammability Category	40/110/56/B	
下限类别温度/Lower category temperature	-40°C	
上限类别温度/Upper category temperature	+110°C	
额定电压/Rated voltage	275VAC/310VAC,50/60Hz	
容量范围/Capacitance range	0.01μF～10μF	
容差/Capacitance tolerance	±10% (K),±20% (M)	
耐电压/Voltage Proof	引出端之间 Between Terminals	4.3V_R(VDC), 1min
	引出端与外壳之间 Between Terminals To Case	(1500+2V_R) Vac , 1min
损失角/Dissapation factor	≤0.1% ,C_R≤2.2μF ≤0.2% C_R> 2.2μF(1KHz at 20~25℃)	
绝缘阻抗/Insulation Resistance	≥15 000MΩ，C_R≤0.33μF	(at 100 VDC,60S 20～25°C,50%～55%RH)
	≥5 000 s，C_R > 0.33μF	

安全认证/Safety Approvals

NO.	Safety Mark 安全认证标志	Country Type 国家	Certificate No.(认证号)
1	CQC	CQC (中国)	CQC12001069597(275/110), CQC12001069504(310/100), CQC12001069506(275/100), CQC12001069596(310/110),
2	cULus	UL/CUL (美国/加拿大)	E120045
3	16	ENEC/FI (欧盟)	ENEC/FI 2015022M1
4	VDE	VDE (德国)	40008520
5	SA	CSA 加拿大	1490346(LR 88249)
6	KC	KTL (韩国)	SU03015-3001C
7	S	SEV 瑞士	15.0660
8	CB TEST CERTIFICATE		FI 8787 M1

备注：如客户有特别要求，可按客户要求生产。
Note:If the customer has special requirements,it can be produced according to customer requirements.

外形尺寸 Dimensions(mm)

275VAC/310VAC (110℃)						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	CARLI P/N
0.01	13	11	5	10	0.8	PX103K3IC2■●□□□⊙■R
0.022	13	11	5	10	0.8	PX223K3IC2■●□□□⊙■R
0.033	13	11	5	10	0.8	PX333K3IC2■●□□□⊙■R
0.047	13	12	6	10	0.8	PX473K3IC3■●□□□⊙■R
0.068	13	12	6	10	0.8	PX683K3IC3■●□□□⊙■R
0.1	18	11	5	15	0.8	PX104K3ID1■●□□□⊙■R
0.1	18	12	6	15	0.8	PX104K3ID2■●□□□⊙■R
0.15	18	12	6	15	0.8	PX154K3ID2■●□□□⊙■R
0.15	18	13.5	7.5	15	0.8	PX154K3ID3■●□□□⊙■R
0.15	18	14.5	8.5	15	0.8	PX154K3ID4■●□□□⊙■R
0.22	18	13.5	7.5	15	0.8	PX224K3ID3■●□□□⊙■R
0.22	18	14.5	8.5	15	0.8	PX224K3ID4■●□□□⊙■R
0.22	18	17	8.5	15	0.8	PX224K3ID42●□□□⊙■R
0.22	18	16	10	15	0.8	PX224K3ID5■●□□□⊙■R
0.27	18	14.5	8.5	15	0.8	PX274K3ID4■●□□□⊙■R
0.33	17.5	17	7.5	15	0.8	PX334K3ID32●□□□⊙■R
0.33	18	18.5	7	15	0.8	PX334K3ID34●□□□⊙■R
0.33	18	14.5	8.5	15	0.8	PX334K3ID4■●□□□⊙■R
0.33	18	16	10	15	0.8	PX334K3ID5■●□□□⊙■R
0.33	17	16	9	15	0.8	PX334K3ID53●□□□⊙■R
0.33	18	18.5	11	15	0.8	PX334K3ID6■●□□□⊙■R
0.47	18	17.5	10	15	0.8	PX474K3ID56●□□□⊙■R
0.47	18	18.5	11	15	0.8	PX474K3ID6■●□□□⊙■R
0.56	18	18.5	11	15	0.8	PX564K3ID6■●□□□⊙■R
0.68	18	22	13	15	0.8	PX684K3ID7■●□□□⊙■R
0.82	18	22	13	15	0.8	PX824K3ID7■●□□□⊙■R
0.68	22.5	17	10	20	0.8	PX684K3IS3■●□□□⊙■R
1.0	22.5	20.5	12	20	0.8	PX105K3IS4■●□□□⊙■R
0.1	26.5	15	6	22.5	0.8	PX104K3IE1■●□□□⊙■R
0.15	26.5	15	6	22.5	0.8	PX154K3IE1■●□□□⊙■R
0.22	26.5	15	6	22.5	0.8	PX224K3IE1■●□□□⊙■R
0.22	26.5	17	7	22.5	0.8	PX224K3IE2■●□□□⊙■R

275VAC/310VAC (110℃)						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	CARLI P/N
0.27	26.5	17	7	22.5	0.8	PX274K3IE2■●□□□⊙■R
0.33	26.5	15	6	22.5	0.8	PX334K3IE1■●□□□⊙■R
0.33	26.5	17	7	22.5	0.8	PX334K3IE2■●□□□⊙■R
0.33	26.5	17	8.5	22.5	0.8	PX334K3IE3■●□□□⊙■R
0.39	26.5	19	10	22.5	0.8	PX394K3IE3■●□□□⊙■R
0.47	26.5	17	7	22.5	0.8	PX474K3IE2■●□□□⊙■R
0.47	26.5	17	8.5	22.5	0.8	PX474K3IE3■●□□□⊙■R
0.47	26.5	19	10	22.5	0.8	PX474K3IE4■●□□□⊙■R
0.56	26.5	17	8.5	22.5	0.8	PX564K3IE3■●□□□⊙■R
0.56	26.5	19	10	22.5	0.8	PX564K3IE4■●□□□⊙■R
0.68	26.5	17	8.5	22.5	0.8	PX684K3IE3■●□□□⊙■R
0.68	26.5	19	10	22.5	0.8	PX684K3IE4■●□□□⊙■R
0.82	26	20	11	22.5	0.8	PX824K3IE5■●□□□⊙■R
0.82	26	21.5	12	22.5	0.8	PX824K3IE6■●□□□⊙■R
1.0	26	20	11	22.5	0.8	PX105K3IE5■●□□□⊙■R
1.0	26.5	22	10	22.5	0.8	PX105K3IE42●□□□⊙■R
1.0	26	21.5	12	22.5	0.8	PX105K3IE6■●□□□⊙■R

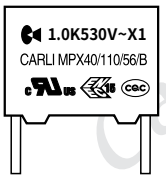
275VAC/310VAC (110℃)						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	CARLI P/N
1.2	26	21.5	12	22.5	0.8	PX125K3IE6■●□□□⊙■R
1.5	26	22	13.5	22.5	0.8	PX155K3IE7■●□□□⊙■R
1.8	26	25	16.5	22.5	0.8	PX185K3IE8■●□□□⊙■R
2.0	26	25	16.5	22.5	0.8	PX205K3IE8■●□□□⊙■R
2.2	26	25	16.5	22.5	0.8	PX225K3IE8■●□□□⊙■R
0.47	30	17.5	10	27.5	0.8	PX474K3IF0■●□□□⊙■R
0.47	32	20	11	27.5	0.8	PX474K3IF1■●□□□⊙■R
0.56	30	17.5	10	27.5	0.8	PX564K3IF0■●□□□⊙■R
0.68	30	17.5	10	27.5	0.8	PX684K3IF0■●□□□⊙■R
0.68	32	20	11	27.5	0.8	PX684K3IF1■●□□□⊙■R
0.82	30	17.5	10	27.5	0.8	PX824K3IF0■●□□□⊙■R
0.82	32	22	13	27.5	0.8	PX824K3IF2■●□□□⊙■R

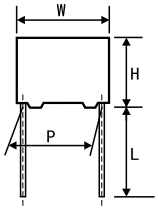
275VAC/310VAC (110℃)						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	CARLI P/N
1.0	30	17.5	10	27.5	0.8	PX105K3IF0■●□□□⊙■R
1.0	32	20	11	27.5	0.8	PX105K3IF1■●□□□⊙■R
1.0	32	22	13	27.5	0.8	PX105K3IF2■●□□□⊙■R
1.2	32	22	13	27.5	0.8	PX125K3IF2■●□□□⊙■R
1.5	32	22	13	27.5	0.8	PX155K3IF2■●□□□⊙■R
1.5	32	25	15	27.5	0.8	PX155K3IF3■●□□□⊙■R
1.8	32	25	15	27.5	0.8	PX185K3IF3■●□□□⊙■R
2.0	32	25	15	27.5	0.8	PX205K3IF3■●□□□⊙■R
2.0	32	30	18	27.5	0.8	PX205K3IF4■●□□□⊙■R
2.2	32	25	15	27.5	0.8	PX225K3IF3■●□□□⊙■R
2.2	32	30	18	27.5	0.8	PX225K3IF4■●□□□⊙■R
3.0	32	30	18	27.5	0.8	PX305K3IF4■●□□□⊙■R
3.3	32	33	18	27.5	0.8	PX335K3IF5■●□□□⊙■R
4.7	32	33	18	27.5	0.8	PX475K3IF5■●□□□⊙■R
4.7	41	32	19	37.5	1.0	PX475K3IJ2■●□□□⊙■R
6.8	41	40	20	37.5	1.0	PX685K3IJ3■●□□□⊙■R
10	41	45	30	37.5	1.0	PX106K3IJ4■●□□□⊙■R
0.82	45	15	8	42.5	0.8	PX824K3IK1■●□□□⊙■R
1.0	45	16	9.5	42.5	0.8	PX105K3IK2■●□□□⊙■R
1.5	45	19	11	42.5	0.8	PX155K3IK3■●□□□⊙■R
2.2	45	22	12.5	42.5	0.8	PX225K3IK4■●□□□⊙■R
3.3	45	25	15.5	42.5	0.8	PX335K3IK5■●□□□⊙■R
4.7	45	29	18.5	42.5	1.0	PX475K3IK6■●□□□⊙■R
6.8	45	34	21.5	42.5	1.0	PX685K3IK7■●□□□⊙■R
8.2	45	41	25	42.5	1.0	PX825K3IK8■●□□□⊙■R
10	45	41	25	42.5	1.0	PX106K3IK8■●□□□⊙■R
6.8	59.5	39	22	52.5	1.0	PX865K3IP1■●□□□⊙■R
8.2	59.5	39	22	52.5	1.0	PX825K3IP1■●□□□⊙■R
10	59.5	39	22	52.5	1.0	PX106K3IP1■●□□□⊙■R

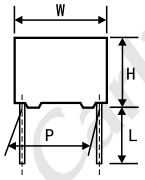
备注：
1. “ * ” 表示容量误差。
2. “ ■ ” 表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4. “ □□□ ” 表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6. “ R ” =ROHS符合型; “ H ” =Halogen-Free无鹵型

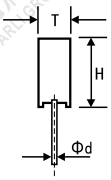
1. "*" = Capacitance tolerance code,K=±10%,M=±20%.
2. "■"=Internal use.
3. "●"=Lead Form Code ："L","H","K","M","N"……
4. "□□□"=Lead Length Code ："270", "200", "035"……
5. "⊙"=Lead Length Tolerance Code ："±0.3","±0.5","±1"……
6. "R"=ROHS compliant; "H"=Halogen-Free compliant.

金属化聚丙烯膜抑制干扰用固定电容器（X1类 530Vac）
Metallized Polypropylene Film Interference Suppression capacitor （Class X1 530V）









特点
- 金属化聚丙烯膜，无感捲绕结构
- 能承受过电压冲击
- 高稳定性和可靠性
- 自愈性好
- 阻燃型壳体和环氧树脂（符合UL 94V-0）

典型应用
- 广泛用於电源跨線电路等抗干扰应用，适用於使用的电容器失效后不会导致触电的危险的场合

Features
- Metallized Polypropylene film , Non-inductive wound construction
- Withstanding overvoltage stressing
- High stability and reliability
- Excelent Self-healing property
- Plastic case Flame retardant epoxy resin sealed（compliance with UL 94V-0）

Applications
- Interference suppressors and across-the-line capacitor applications . Suitable for used in situations where failure of the capacitor will not lead to danger of electric shock

技术要求/Specifications

电容器类别/EMI Suppression capacitors (X1 Class)	X1	
引用标准/Reference Standard	IEC 60384-14	
气候类别和阻燃等级 Climatic Category and Passive Flammability Category	40/110/56/B	
下限类别温度/Lower category temperature	-40°C	
上限类别温度/Upper category temperature	+110°C	
额定电压/Rated voltage	530VAC, 50/60Hz	
容量范围/Capacitance range	0.0068μF〜5.6μF	
容差/Capacitance tolerance	±10% (K),±20% (M)	
耐电压/Voltage Proof	引出端之间 Between Terminals	4.3V_R(VDC), 1min
	引出端与外壳之间 Between Terminals To Case	(1500+2V_R) Vac , 1min
损失角/Dissapation factor	≤0.1% , C_R≤2.2μF ≤0.2% , C_R>2.2μF (1KHz at 20~25°C)	
绝缘阻抗/Insulation Resistance	≥15 000MΩ，C_R≤0.33μF	(at 100 VDC,60s 20〜25°C)
	≥5 000 s，C_R > 0.33μF	

安全认证/Safety Approvals

NO.	Safety Mark 安全认证标志	Country Type 国家	Certificate No.(认证号)
1	CQC	CQC (中国)	CQC21001307143
2	c UL us	UL/CUL (美国/加拿大)	E120045
3	ENEC	ENEC (欧盟)	ENEC-03528

备注：如客户有特别要求，可按客户要求生产。
Note:If the customer has special requirements,it can be produced according to customer requirements.

外形尺寸 Dimensions(mm)

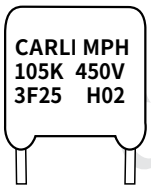
530VAC						
C_R (uF)	W (±1 mm)	H (±1 mm)	T (±1 mm)	P (±1 mm)	DΦ (±0.05 mm)	CARLI P/N
0.0068	18	11	5	15	0.8	PX682K5WD1■●□□□⊙■R
0.0068	18	12	6	15	0.8	PX682K5WD2■●□□□⊙■R
0.0082	18	11	5	15	0.8	PX822K5WD1■●□□□⊙■R
0.0082	18	12	6	15	0.8	PX822K5WD2■●□□□⊙■R
0.01	18	11	5	15	0.8	PX103K5WD1■●□□□⊙■R
0.01	18	12	6	15	0.8	PX103K5WD2■●□□□⊙■R
0.022	18	13	6.5	15	0.8	PX223K5WD25●□□□⊙■R
0.033	18	13	6.5	15	0.8	PX333K5WD25●□□□⊙■R
0.033	18	13.5	7.5	15	0.8	PX333K5WD3■●□□□⊙■R
0.047	18	13.5	7.5	15	0.8	PX473K5WD3■●□□□⊙■R
0.047	18	17	8.5	15	0.8	PX473K5WD42●□□□⊙■R
0.047	18	14.5	8.5	15	0.8	PX473K5WD4■●□□□⊙■R
0.056	18	14.5	8.5	15	0.8	PX563K5WD4■●□□□⊙■R
0.056	18	16	10	15	0.8	PX563K5WD5■●□□□⊙■R
0.056	18	17	7.5	15	0.8	PX563K5WD32●□□□⊙■R
0.068	18	17	8.5	15	0.8	PX683K5WD42●□□□⊙■R
0.068	18	18.5	11	15	0.8	PX683K5WD6■●□□□⊙■R
0.068	18	16	10	15	0.8	PX683K5WD5■●□□□⊙■R
0.1	18	18.5	11	15	0.8	PX104K5WD6■●□□□⊙■R
0.1	18	22	13	15	0.8	PX104K5WD7■●□□□⊙■R
0.033	26.5	15	6	22.5	0.8	PX333K5WE1■●□□□⊙■R
0.047	26.5	15	6	22.5	0.8	PX473K2WE1■●□□□⊙■R
0.056	26.5	15	6	22.5	0.8	PX563K5WE1■●□□□⊙■R
0.068	26.5	15	6	22.5	0.8	PX683K5WE1■●□□□⊙■R
0.082	26.5	17	7	22.5	0.8	PX823K5WE2■●□□□⊙■R
0.082	26.5	15	6	22.5	0.8	PX823K5WE1■●□□□⊙■R
0.1	26.5	14.5	9	22.5	0.8	PX104K5WE23●□□□⊙■R
0.1	26.5	15	6	22.5	0.8	PX104K5WE1■●□□□⊙■R
0.15	26.5	17	8.5	22.5	0.8	PX154K5WE3■●□□□⊙■R
0.15	26.5	19	10	22.5	0.8	PX154K5WE4■●□□□⊙■R
0.22	26.5	19	10	22.5	0.8	PX224K5WE4■●□□□⊙■R
0.22	26	21.5	12	22.5	0.8	PX224K5WE6■●□□□⊙■R
0.33	26	21.5	12	22.5	0.8	PX334K5WE6■●□□□⊙■R
0.33 M级	26	20	11	22.5	0.8	PX334K5WE5■●□□□⊙■R
0.33	26	25	16.5	22.5	0.8	PX334K5WE8■●□□□⊙■R
0.47	26	25	16.5	22.5	0.8	PX474K5WE8■●□□□⊙■R
0.15	32	20	11	27.5	0.8	PX154K5WF1■●□□□⊙■R
0.15	30	17.5	10	27.5	0.8	PX154K5WF0■●□□□⊙■R
0.22	32	20	11	27.5	0.8	PX224K5WF1■●□□□⊙■R
0.22	30	17.5	10	27.5	0.5	PX224K5WF0■●□□□⊙■R
0.33	32	22	13	27.5	0.8	PX334K5WF2■●□□□⊙■R
0.33	32	25	15	27.5	0.8	PX334K5WF3■●□□□⊙■R
0.33 M级	32	22	13	27.5	0.8	PX334M5WF2■●□□□⊙■R
0.47	32	25	15	27.5	0.8	PX474K5WF3■●□□□⊙■R
0.47	32	30	18	27.5	0.8	PX474K5WF4■●□□□⊙■R
0.47 M级	32	22	13	27.5	0.8	PX474M5WF2■●□□□⊙■R
0.56	32	25	15	27.5	0.8	PX564K5WF3■●□□□⊙■R
.56 M级	32	25	15	27.5	0.8	PX564M5WF3■●□□□⊙■R
0.56	32	30	18	27.5	0.8	PX564K5WF4■●□□□⊙■R

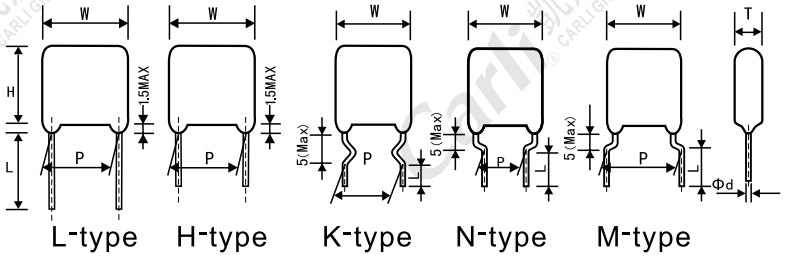
530VAC						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	DΦ (±0.05 mm)	CARLI P/N
0.68	32	30	18	27.5	0.8	PX684K5WF4■●□□□⊙■R
0.68 M级	32	25	15	27.5	0.8	PX684M5WF3■●□□□⊙■R
0.68	32	33	18	27.5	0.8	PX684K5WF5■●□□□⊙■R
0.82	32	30	18	27.5	0.8	PX824K5WF4■●□□□⊙■R
.82 M级	32	33	18	27.5	0.8	PX824M5WF5■●□□□⊙■R
1	32	33	18	27.5	0.8	PX105K5WF5■●□□□⊙■R
1 M级	32	30	18	27.5	0.8	PX105M5WF4■●□□□⊙■R
1	32	38	24	27.5	0.8	PX105K5WF7■●□□□⊙■R
1.5	32	38	24	27.5	0.8	PX155K5WF7■●□□□⊙■R
1.8	32	42	27	27.5	0.8	PX185K5WF8■●□□□⊙■R
1.8 M级	32	38	24	27.5	0.8	PX185M5WF7■●□□□⊙■R
0.22	42	22	12	37.5	0.8	PX224K5WJ14●□□□⊙■R
0.33	42	22	12	37.5	0.8	PX334K5WJ14●□□□⊙■R
0.47	42	25	14	37.5	0.8	PX474K5WJ15●□□□⊙■R
0.56	42	19	24	37.5	0.8	PX564K5WJ1L●□□□⊙■R
0.56	42	22	12	37.5	0.8	PX564K5WJ14●□□□⊙■R
0.56	42	25	14	37.5	0.8	PX564K5WJ15●□□□⊙■R
0.68	42	19	24	37.5	0.8	PX684K5WJ1L●□□□⊙■R
0.68	42	25	14	37.5	0.8	PX684K5WJ15●□□□⊙■R
0.68 M级	42	22	12	37.5	0.8	PX684M5WJ14●□□□⊙■R
0.68	42	28	16	37.5	0.8	PX684K5WJ16●□□□⊙■R
0.82	42	19	24	37.5	0.8	PX824K5WJ1●□□□⊙■R
0.82	42	25	14	37.5	0.8	PX824K5WJ15●□□□⊙■R
0.82	42	28	16	37.5	0.8	PX824K5WJ16●□□□⊙■R
1	42	28	16	37.5	0.8	PX105K5WJ16●□□□⊙■R
1M级	42	25	14	37.5	0.8	PX105M5WJ15●□□□⊙■R
1	42	19	24	37.5	0.8	PX105K5WJ1L●□□□⊙■R
1	42	32	19	37.5	1.0	PX105K2WJ2■●□□□⊙■R
1.5	42	32	19	37.5	1.0	PX155K5WJ2■●□□□⊙■R
1.5 M级	42	28	16	37.5	0.8	PX155M5WJ16●□□□⊙■R
1.5	42	38	25	37.5	1.0	PX155K5WJ34●□□□⊙■R
2.2	42	42.5	28	37.5	1.0	PX225K5WJ31●□□□⊙■R
2.2 M级	42	32	19	37.5	1.0	PX225M5WJ2■●□□□⊙■R
2.2	42	26.5	31	37.5	1.0	PX225K5WJ2L●□□□⊙■R
3.3	42	42.5	28	37.5	1.0	PX335K5WJ31●□□□⊙■R
3.3	42	48	33	37.5	1.0	PX335K5WJ5■●□□□⊙■R
4.7	42	48	33	37.5	1.0	PX475K5WJ5■●□□□⊙■R
4.7 M级	42	45	30	37.5	1.0	PX475M5WJ4■●□□□⊙■R
4.7 M级	57.5	45	30	52.5	1.0	PX475M5WP4■●□□□⊙■R
5.6 M级	57.5	45	30	52.5	1.0	PX565M5WP4■●□□□⊙■R
5.6	57.5	50	35	52.5	1.0	PX565K5WP5■●□□□⊙■R

备注：
1. “ * ” 表示容量误差。
2. “ ■ ” 表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4. “ □□□ ” 表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6. “ R ” =ROHS符合型; “ H ” =Halogen-Free无鹵型

1. "*" = Capacitance tolerance code,K=±10%,M=±20%.
2. "■"=Internal use.
3. "●"=Lead Form Code ："L","H","K","M","N"……
4. "□□□"=Lead Length Code ："270"，"200"，"035"……
5. "⊙"=Lead Length Tolerance Code ："±0.3","±0.5","±1"……
6. "R"=ROHS compliant; "H"=Halogen-Free compliant.

小型化金属化聚丙烯膜电容器（浸渍型）
Mini-sized Metallized Polypropylene Film Capacitor (Dipped)





特点

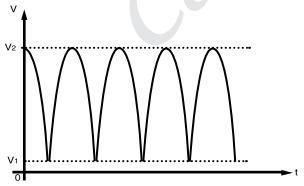
- 金属化聚丙烯膜, 无感捲绕结构
- 小型化,良好自愈性
- 阻燃环氧树脂粉末涂装

Features

- Metallized Polypropylene film , non-inductive wound construction
- Mini- size ,exellent self-healing
- Flame retardent epoxy powder coating

典型应用

● 用於开关电源,电子镇流器和变频器等中间电路直流滤波(DC-link , PFC 等)



Here:$V_1 \geqq 0, V_2 \leqq U_R, V_{rms}=(V_2-V_1) \div \sqrt{2}$, $I_{rms}=2\pi f \times C \times (V_1-V_2) \div \sqrt{2}$

U_R is the rated voltage of the capacitor

Applications

As intermidiate circuit capacitor for SMPS , Electronic Ballast inverter (i.e. DC-link ,DC filter and P.F.C)

注: MPH产品只适用於DC滤波和DC模块电路,意指施加给电容的电压必须是单向涟波电压, 电压代表波型如下图示。不适用於交流电路，对此有何疑问请和我们的技术人员联系。

a:The MPH series is only recommended to use in DC-filter or DC-blocking circuits.It means the voltage applied to the capacitors must be unidirectional ripple voltage.The typical voltage curve is as following reference.If you have any questions for this note,please feel free to contact our technical engineer.

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别/Climatic Category	40/105/21				
额定温度/Rated Temperature	85℃				
工作温度范围 Operating Temperature Range	-40℃～+105℃. (+85℃～+105℃):derating factor1.5%per℃ for R.V(DC))				
额定电压/Rated voltage	400VDC/450VDC,500VDC/550VDC, 630VDC				
容量范围/Capacitance range	0.01μF～2.2μF				
容差/Capacitance tolerance	±5% (J),±10% (K)				
耐电压/Voltage Proof	1.4* R.V(DC), 2s (between terminals)				
损失角/Dissapation factor	≤0.1% (1KHz at 20～25℃)				
绝缘阻抗/Insulation Resistance	≥30 000MΩ,C_R≤0.33μF ≥10 000 s,C_R > 0.33μF (20℃,100V,1min,50%～55%RH)				
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt): 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.	U_R(V)	dV/dt(V/μs)			
		P=7.5	P=10.0	P=15.0	P=22.5
	400/450	320	300	200	100
	500/550	380	350	220	150
	630	420	400	300	180

外形尺寸 Dimensions(mm)

400VDC/450VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	10.5	9	6	0.6	7.5	PH103*2Y07■●□□□⊙■R
0.022	10.5	9	6	0.6	7.5	PH223*2Y07■●□□□⊙■R
0.033	10.5	9.5	6.5	0.6	7.5	PH333*2Y07■●□□□⊙■R
0.047	10.5	12.5	7	0.6	7.5	PH473*2Y07■●□□□⊙■R
0.068	10.5	13.5	8	0.6	7.5	PH683*2Y07■●□□□⊙■R
0.1	10.5	14.5	9	0.6	7.5	PH104*2Y07■●□□□⊙■R
0.01	12.5	9	6	0.6	10	PH103*2Y10■●□□□⊙■R
0.022	12.5	9	6	0.6	10	PH223*2Y10■●□□□⊙■R
0.033	12.5	9	6	0.6	10	PH333*2Y10■●□□□⊙■R
0.047	12.5	11	7	0.6	10	PH473*2Y10■●□□□⊙■R
0.068	12.5	12	8	0.6	10	PH683*2Y10■●□□□⊙■R
0.1	12.5	10	6	0.6	10	PH104*2Y10■●□□□⊙■R
0.15	12.5	11	6.5	0.6	10	PH154*2Y10■●□□□⊙■R
0.18	12.5	12.5	7	0.6	10	PH184*2Y10■●□□□⊙■R
0.22	12.5	13.5	7	0.6	10	PH224*2Y10■●□□□⊙■R
0.33	12.5	14	8	0.6	10	PH334*2Y10■●□□□⊙■R
0.47	12.5	16.5	8	0.6	10	PH474*2Y10■●□□□⊙■R
0.68	12.5	19	10	0.8	10	PH684*2Y10■●□□□⊙■R
1.0	12.5	23	10	0.8	10	PH105*2Y10■●□□□⊙■R
0.1	17.5	13.5	8	0.8	15	PH104*2Y15■●□□□⊙■R
0.22	17.5	14	7.5	0.8	15	PH224*2Y15■●□□□⊙■R
0.33	17.5	13	9	0.8	15	PH334*2Y15A●□□□⊙■R
0.47	17.5	14	6.5	0.8	15	PH474*2Y15■●□□□⊙■R
0.56	17.5	15	7	0.8	15	PH564*2Y15■●□□□⊙■R
0.68	17.5	15	8	0.8	15	PH684*2Y15■●□□□⊙■R
1.0	17.5	17	8.5	0.8	15	PH105*2Y15■●□□□⊙■R
1.5	17.5	23.5	10	0.8	15	PH155*2Y15■●□□□⊙■R
2.2	17.5	25.5	11.5	0.8	15	PH225*2Y15■●□□□⊙■R
1.5	25.5	17.5	9	0.8	22.5	PH155*2Y22■●□□□⊙■R
2.2	25.5	20	10	0.8	22.5	PH225*2Y22■●□□□⊙■R

500VDC/550VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	10.5	9	6	0.6	7.5	PH103*2X07■●□□□⊙■R
0.022	10.5	9	6	0.6	7.5	PH223*2X07■●□□□⊙■R
0.033	10.5	9.5	6.5	0.6	7.5	PH333*2X07■●□□□⊙■R
0.047	10.5	12.5	7	0.6	7.5	PH473*2X07■●□□□⊙■R
0.01	12.5	10	6	0.6	10	PH103*2X10■●□□□⊙■R
0.015	12.5	10	6	0.6	10	PH153*2X10■●□□□⊙■R
0.022	12.5	10	6	0.6	10	PH223*2X10■●□□□⊙■R
0.033	12.5	10	6.5	0.6	10	PH333*2X10■●□□□⊙■R
0.047	12.5	11	7.5	0.6	10	PH473*2X10■●□□□⊙■R
0.068	12.5	12	8	0.6	10	PH683*2X10■●□□□⊙■R
0.1	12.5	10	7	0.6	10	PH104*2X10■●□□□⊙■R

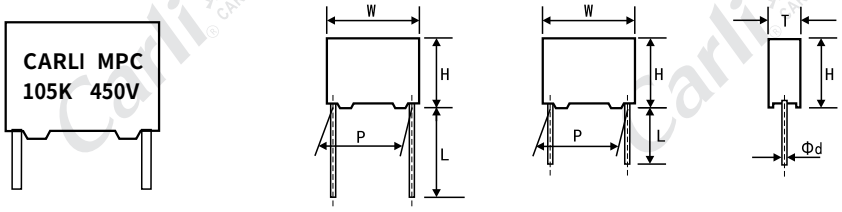
500VDC/550VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.15	12.5	12	7	0.6	10	PH154*2X10■●□□□⊙■R
0.22	12.5	14	8	0.6	10	PH224*2X10■●□□□⊙■R
0.1	17.5	13.5	8	0.8	15	PH104*2X15■●□□□⊙■R
0.15	17.5	13.5	8	0.8	15	PH154*2X15■●□□□⊙■R
0.22	17.5	13.5	8	0.8	15	PH224*2X15■●□□□⊙■R
0.33	17.5	14	8.5	0.8	15	PH334*2X15■●□□□⊙■R
0.47	17.5	15	9.5	0.8	15	PH474*2X15■●□□□⊙■R
0.68	17.5	17	10.5	0.8	15	PH684*2X15■●□□□⊙■R
1.0	17.5	20	12	0.8	15	PH105*2X15■●□□□⊙■R
0.68	25.5	16.5	10	0.8	22.5	PH684*2X22■●□□□⊙■R
1.0	25.5	21	11	0.8	22.5	PH105*2X22■●□□□⊙■R
1.5	25.5	23.5	13.5	0.8	22.5	PH155*2X22■●□□□⊙■R
2.2	25.5	26.5	16.5	0.8	22.5	PH225*2X22■●□□□⊙■R

630VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	10.5	9	5.5	0.6	7.5	PH103*2J07■●□□□⊙■R
0.022	10.5	12.5	7	0.6	7.5	PH223*2J07■●□□□⊙■R
0.033	10.5	14	8	0.6	7.5	PH333*2J07■●□□□⊙■R
0.01	12.5	10	6	0.6	10	PH103*2J10■●□□□⊙■R
0.015	12.5	10	6	0.6	10	PH153*2J10■●□□□⊙■R
0.022	12.5	10	6	0.6	10	PH223*2J10■●□□□⊙■R
0.033	12.5	10	6.5	0.6	10	PH333*2J10■●□□□⊙■R
0.047	12.5	11	7	0.6	10	PH473*2J10■●□□□⊙■R
0.068	12.5	11	8	0.6	10	PH683*2J10■●□□□⊙■R
0.1	12.5	15	7	0.6	10	PH104*2J10■●□□□⊙■R
0.22	12.5	15.5	10.5	0.6	10	PH224*2J10■●□□□⊙■R
0.1	17.5	13.5	8	0.8	15	PH104*2J15A●□□□⊙■R
0.22	17.5	13.5	8	0.8	15	PH224*2J15■●□□□⊙■R
0.33	17.5	15.5	9.5	0.8	15	PH334*2J15■●□□□⊙■R
0.39	17.5	17.5	9.5	0.8	15	PH394*2J15■●□□□⊙■R
0.47	17.5	18	10	0.8	15	PH474*2J15■●□□□⊙■R
0.68	17.5	21	11.5	0.8	15	PH684*2J15■●□□□⊙■R
1.0	17.5	25	15	0.8	15	PH105*2J15■●□□□⊙■R
0.68	25.5	17	10	0.8	22.5	PH684*2J22■●□□□⊙■R
1.0	25.5	21	11	0.8	22.5	PH105*2J22■●□□□⊙■R
1.5	25.5	23.5	13.5	0.8	22.5	PH155*2J22■●□□□⊙■R
2.2	25.5	26.5	16.5	0.8	22.5	PH225*2J22■●□□□⊙■R

金属化聚丙烯膜电容器（盒装型）
Metallized Polypropylene Film Capacitor (Box-type)

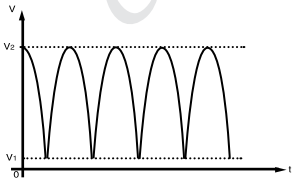


特点

- 金属化聚丙烯膜, 无感捲绕结构
- 小型化,良好自愈性
- 塑胶外壳，阻燃环氧树脂填充

典型应用

- 用於开关电源,电子镇流器和变频器等中间电路直流滤波(DC-link , PFC 等)



Here: $V_1 \geqq 0, V_2 \leqq U_R, V_{rms}=(V_2-V_1) \div \sqrt{2}$, $I_{rms}=2\pi f \times C \times (V_1-V_2) \div \sqrt{2}$

U_R is the rated voltage of the capacitor

Features

- Metallized Polypropylene film , non-inductive wound construction
- Mini- size ,exellent self-healing
- Plastic case ,Flame retardent epoxy resin sealing

Applications

As intermidiate circuit capacitor for SMPS , Electronic Ballast inverter (i.e. DC-link ,DC filter and P.F.C)

注: MPC产品只适用於DC滤波和DC模块电路,意指施加给电容的电压必须是单向涟波电压, 电压代表波型如下图示。不适用於交流电路，对此有何疑问请和我们的技术人员联系。

a:The MPC series is only recommended to use in DC-filter or DC-blocking circuits.It means the voltage applied to the capacitors must be unidirectional ripple voltage.The typical voltage curve is as following reference.If you have any questions for this note,please feel free to contact our technical engineer.

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)			
气候类别/Climatic Category	40/105/21			
额定温度/Rated Temperature	85°C			
工作温度范围 Operating Temperature Range	-40°C～+105°C. +85°C～+105°C:derating factor 1.5%per°C for R.V(DC)			
额定电压/Rated voltage	400VDC/450VDC,500VDC/550VDC, 630VDC			
容量范围/Capacitance range	0.01μF～2.2μF			
容差/Capacitance tolerance	±5% (J),±10% (K)			
耐电压/Voltage Proof	1.4* R.V(DC), 2s (between terminals)			
损失角/Dissapation factor	≤0.1% (1KHz at 20～25°C)			
绝缘阻抗/Insulation Resistance	≥30 000MΩ,C_R≤0.33μF ≥10 000 s,C_R > 0.33μF(at 100±10VDC, 60s , 20～25°C,50%～55%RH)			
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt): 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.	U_R(V)	dV/dt(V/μs) for Patter		
		P=10	P=15.0	P=22.5
	400/450	300	200	100
	500/550	350	220	150
	630	400	300	180

外形尺寸 Dimensions(mm)

400Vdc/450Vdc

CAP (μF)	DIMENSIONS尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	9	4	0.6	10	PC103∗2YC1■●□□□⊙■R
0.015	13	9	4	0.6	10	PC153∗2YC1■●□□□⊙■R
0.022	13	11	5	0.6	10	PC223∗2YC2■●□□□⊙■R
0.033	13	11	5	0.6	10	PC333∗2YC2■●□□□⊙■R
0.047	13	11	5	0.6	10	PC473∗2YC2■●□□□⊙■R
0.068	13	11	5	0.6	10	PC683∗2YC2■●□□□⊙■R
0.1	13	11	5	0.6	10	PC104∗2YC2■●□□□⊙■R
0.15	13	11	5	0.6	10	PC154∗2YC2■●□□□⊙■R
0.22	13	12	6	0.6	10	PC224∗2YC3■●□□□⊙■R
0.33	13	12.5	7	0.6	10	PC334∗2YC4■●□□□⊙■R
0.47	13	16	8	0.6	10	PC474∗2YC5■●□□□⊙■R
0.68	13	19	9	0.6	10	PC684∗2YC6■●□□□⊙■R
1.0	13	21	11.5	0.8	10	PC105∗2YC7■●□□□⊙■R
0.33	18	11	5	0.6	15	PC334∗2YD1■●□□□⊙■R
0.47	18	12	6	0.8	15	PC474∗2YD2■●□□□⊙■R
0.68	18	13.5	7.5	0.8	15	PC684∗2YD3■●□□□⊙■R
1.0	17.5	17	7.5	0.8	15	PC105∗2YD32●□□□⊙■R
1.5	18	18.5	11	0.8	15	PC155∗2YD6■●□□□⊙■R
1.5	26.5	17	8.5	0.8	22.5	PC155∗2YE3■●□□□⊙■R
2.2	26.5	19	10	0.8	22.5	PC225∗2YE4■●□□□⊙■R

630Vdc

CAP (μF)	DIMENSIONS尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	9	4	0.6	10	PC103∗2JC1■●□□□⊙■R
0.015	13	9	4	0.6	10	PC153∗2JC1■●□□□⊙■R
0.022	13	11	5	0.6	10	PC223∗2JC2■●□□□⊙■R
0.033	13	11	5	0.6	10	PC333∗2JC2■●□□□⊙■R
0.047	13	11	5	0.6	10	PC473∗2JC2■●□□□⊙■R
0.068	13	11	5	0.6	10	PC683∗2JC2■●□□□⊙■R
0.1	13	12	6	0.6	10	PC104∗2JC3■●□□□⊙■R
0.15	13	12.5	7	0.6	10	PC154∗2JC4■●□□□⊙■R
0.22	13	16	8	0.6	10	PC224∗2JC5■●□□□⊙■R
0.33	18	14.5	8.5	0.8	15	PC334∗2JD4■●□□□⊙■R
0.47	18	16	10	0.8	15	PC474∗2JD5■●□□□⊙■R
0.68	18	18.5	11	0.8	15	PC684∗2JD6■●□□□⊙■R
1.0	18	22	13	0.8	15	PC105∗2JD7■●□□□⊙■R
1.0	26	20	11	0.8	22.5	PC105∗2JE5■●□□□⊙■R
1.5	26	21.5	12	0.8	22.5	PC155∗2JE6■●□□□⊙■R
2.2	26	25	16.5	0.8	22.5	PC225∗2JE8■●□□□⊙■R

500Vdc/550Vdc

CAP (μF)	DIMENSIONS尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	9	4	0.6	10	PC103∗2XC1■●□□□⊙■R
0.015	13	9	4	0.6	10	PC153∗2XC1■●□□□⊙■R
0.022	13	11	5	0.6	10	PC223∗2XC2■●□□□⊙■R
0.033	13	11	5	0.6	10	PC333∗2XC2■●□□□⊙■R
0.047	13	11	5	0.6	10	PC473∗2XC2■●□□□⊙■R
0.068	13	11	5	0.6	10	PC683∗2XC2■●□□□⊙■R
0.1	13	11	5	0.6	10	PC104∗2XC2■●□□□⊙■R
0.15	13	12	6	0.6	10	PC154∗2XC3■●□□□⊙■R
0.22	13	12.5	7	0.6	10	PC224∗2XC4■●□□□⊙■R
0.33	18	13	6.5	0.8	15	PC334∗2XD25●□□□⊙■R
0.47	18	14.5	8.5	0.8	15	PC474∗2XD4■●□□□⊙■R
0.68	18	16	10	0.8	15	PC684∗2XD5■●□□□⊙■R
1.0	18	18.5	11	0.8	15	PC105∗2XD6■●□□□⊙■R
1.0	26.5	17	8.5	0.8	22.5	PC105∗2XE3■●□□□⊙■R
1.5	26	20	11	0.8	22.5	PC155∗2XE5■●□□□⊙■R
2.2	26	25	16.5	0.8	22.5	PC225∗2XE8■●□□□⊙■R

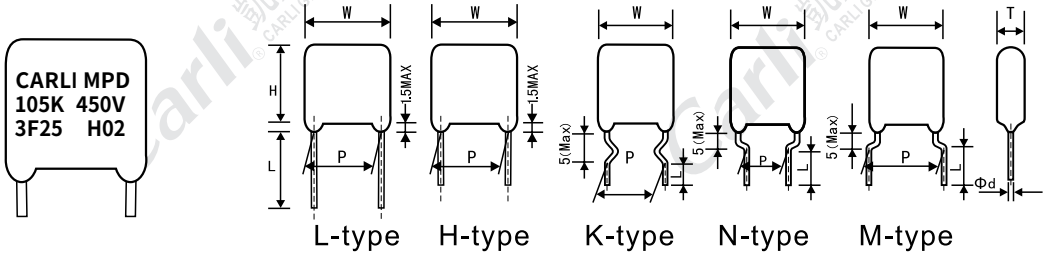
备注：

1. “∗”表示容量误差。
2. "■"表示内部特征码。
3. “●”表示引線加工形式代码。
4. "□□□"表示引線长度代码。
5. “⊙”表示引線长度误差代码。
6. "R"=ROHS符合型;
   "H"=Halogen-Free无鹵型.
7. "# "当额定电压为400Vdc时 ,第7～8位是2G

1. "∗"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ：“L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“270”，“200”，“035”……
5. "⊙"=Lead Length Tolerance Code ：“±0.3”，“±0.5，“±1”……
6. "R"=ROHS compliant.
   "H"=Halogen-Free compliant.
7. "# "when the rated voltage is 400Vdc ,the digit 7~8 is 2G .

小型化金属化聚丙烯膜电容器（安全膜浸渍型）-低噪音

Mini -size metallized polypropylene film capacitor (Safety film dipped-type)-Low noise



特点

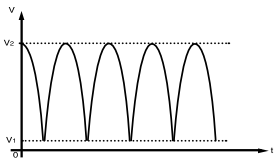
- 金属化聚丙烯安全膜, 无感捲绕结构
- 小型化,良好自愈性
- 低噪音
- 阻燃环氧树脂粉末涂装

Features

- Metallized Polypropylene safety film, non- inductive wound construction
- Mini- size ,exellent self-healing
- Low noise
- Flame retardent epoxy powder coating

典型应用

● 用於开关电源,电子镇流器和变频器等中间电路直流滤波(DC-link , PFC 等)



Here:$V_1 \geqq 0, V_2 \leqq U_R, V_{rms}=(V_2-V_1) \div \sqrt{2}$, $I_{rms}=2\pi f \times C \times (V_1-V_2) \div \sqrt{2}$

U_R is the rated voltage of the capacitor

Applications

As intermidiate circuit capacitor for SMPS , Electronic Ballast invenrter (i.e. DC-link ,DC filter and P.F.C)

注: MPD产品只适用於DC滤波和DC模块电路,意指施加给电容的电压必须是单向涟波电压, 电压代表波型如下图示。不适用於交流电路，对此有何疑问请和我们的技术人员联系。

a:The MPD series is only recommended to use in DC-filter or DC-blocking circuits.It means the voltage applied to the capacitors must be unidirectional ripple voltage.The typical voltage curve is as following reference.If you have any questions for this note,please feel free to contact our technical engineer.

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别/Climatic Category	40/85/21				
额定温度/Rated Temperature	85°C				
工作温度范围/Operating Temperature Range	'-40°C～+105°C.(只适用DC电压产品) '+85°C～+105°C:derating factor 1.5%per°C for R.V(DC)				
额定电压/Rated voltage	400VDC/450VDC,500VDC/550VDC, 630VDC				
容量范围/Capacitance range	0.01μF～2.2μF				
容差/Capacitance tolerance	±5% (J),±10% (K)				
耐电压/Voltage Proof	1.4* R.V(DC), 2s (between terminals)				
损失角/Dissapation factor	≤0.1% (1KHz at 20~25°C)				
绝缘阻抗/Insulation Resistance	≥30 000MΩ,C_R≤0.33μF ≥10 000 s,C_R > 0.33μF (at 100 VDC , 60s 20～25°C,50%～55%RH)				
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt) : 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dv/dt.In thiscase,the maximum allowed dv/dt is obtain by multiplyingthe right value with U_R/U .	U_R(V)	dV/dt(V/ μs)			
		P=10	P=15	P=22.5	P=27.5
	400/450V	300	200	100	80
	500/550V	350	220	150	100
	630V	400	300	180	120

备注：如客户有特别要求，可按客户要求生产。

Note:If the customer has special requirements,it can be produced according to customer requirements.

外形尺寸 Dimensions(mm)

450VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.010	12.5	9	6	0.6	10	PD103*2Y10G●□□□⊙9H
0.022	12.5	10	7	0.6	10	PD223*2Y10G●□□□⊙9H
0.033	12.5	9	6	0.6	10	PD333*2Y10G●□□□⊙9H
0.047	12.5	10	6.5	0.6	10	PD473*2Y10G●□□□⊙9H
0.056	12.5	9.5	6.5	0.6	10	PD563*2Y10G●□□□⊙9H
0.068	12.5	10	7	0.6	10	PD683*2Y10G●□□□⊙9H
0.082	12.5	10	7	0.6	10	PD823*2Y10G●□□□⊙9H
0.10	12.5	9	6	0.6	10	PD104*2Y10G●□□□⊙9H
0.15	12.5	9	6	0.6	10	PD154*2Y10G●□□□⊙9H
0.22	12.5	9.5	6.5	0.6	10	PD224*2Y10B●□□□⊙GH
0.33	12.5	10.5	7.5	0.6	10	PD334*2Y10G●□□□⊙7H
0.47	12.5	11	8	0.6	10	PD474*2Y10G●□□□⊙9H
0.56	12.5	12.5	9	0.6	10	PD564*2Y10B●□□□⊙GH
0.68	12.5	13	10	0.6	10	PD684*2Y10G●□□□⊙7H
0.82	12.5	14	11	0.8	10	PD824*2Y10G●□□□⊙9H
1.00	12.5	15	12	0.8	10	PD105*2Y10G●□□□⊙■H
0.10	17.5	9	6	0.6	15	PD104*2Y15G●□□□⊙9H
0.15	17.5	10	6.5	0.6	15	PD154*2Y15G●□□□⊙9H
0.22	17.5	9.5	6.5	0.6	15	PD224*2Y15B●□□□⊙GH
0.33	17.5	9.5	6	0.6	15	PD334*2Y15G●□□□⊙9H
0.47	17.5	9.5	7	0.6	15	PD474*2Y15G●□□□⊙7H
0.56	17.5	10.5	7	0.8	15	PD564*2Y15B●□□□⊙GH
0.68	17.5	12	9	0.8	15	PD684*2Y15G●□□□⊙7H
0.82	17.5	11.5	8.5	0.8	15	PD824*2Y15G●□□□⊙9H
1.00	17.5	13	10	0.8	15	PD105*2Y15G●□□□⊙7H
1.50	17.5	13.5	11	0.8	15	PD155*2Y15B●□□□⊙GH
2.20	17.5	15.5	12.5	0.8	15	PD225*2Y15C●□□□⊙GH
1.00	25.5	12.5	9.5	0.8	22.5	PD105*2Y22G●□□□⊙9H
1.50	25.5	14	11	0.8	22.5	PD155*2Y22B●□□□⊙GH
2.2 0	25.5	16.5	12.5	0.8	22.5	PD225*2Y22G●□□□⊙9H

500VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.022	12.5	9	6	0.6	10	PD223*2H10G●□□□⊙9H
0.033	12.5	9	6	0.6	10	PD333*2H10G●□□□⊙9H
0.047	12.5	9.5	6.5	0.6	10	PD473*2H10G●□□□⊙9H
0.056	12.5	10	6.5	0.6	10	PD563*2H10G●□□□⊙9H
0.068	12.5	10.5	7.5	0.6	10	PD683*2H10G●□□□⊙9H

500VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.082	12.5	11	7.5	0.6	10	PD823*2H10G●□□□⊙9H
0.100	12.5	9	6	0.6	10	PD104*2H10B●□□□⊙GH
0.150	12.5	10	6.5	0.6	10	PD154*2H10B●□□□⊙GH
0.220	12.5	13	10	0.6	10	PD224*2H10G●□□□⊙7H
0.330	12.5	14.5	11.5	0.6	10	PD334*2H10G●□□□⊙6H
0.470	12.5	17	13	0.8	10	PD474*2H10B●□□□⊙GH
0.560	12.5	18	14	0.8	10	PD564*2H10G●□□□⊙9H
0.680	12.5	19.5	15.5	0.8	10	PD684*2H10G●□□□⊙9H
0.10	17.5	10	6	0.6	15	PD104*2H15G●□□□⊙9H
0.15	17.5	10	6.5	0.6	15	PD154*2H15B●□□□⊙GH
0.22	17.5	10	7	0.6	15	PD224*2H15G●□□□⊙9H
0.33	17.5	10.5	7	0.6	15	PD334*2H15G●□□□⊙6H
0.47	17.5	11.5	8	0.8	15	PD474*2H15B●□□□⊙GH
0.56	17.5	14.5	10.5	0.8	15	PD564*2H15G●□□□⊙9H
0.68	17.5	12.5	9	0.8	15	PD684*2H15B●□□□⊙GH
0.82	17.5	13.5	10.5	0.8	15	PD824*2H15G●□□□⊙9H
1.00	17.5	15	11	0.8	15	PD105*2H15G●□□□⊙9H
1.00	25.5	13	9	0.8	22.5	PD105*2H22G●□□□⊙9H
1.50	25.5	15	10.5	0.8	22.5	PD155*2H22G●□□□⊙9H
2.20	25.5	17	12.5	0.8	22.5	PD225*2H22G●□□□⊙9H

630VDC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.022	12.5	9	6	0.6	10	PD223*2J10G●□□□⊙9H
0.033	12.5	9	6	0.6	10	PD333*2J10G●□□□⊙9H
0.047	12.5	9.5	6.5	0.6	10	PD473*2J10G●□□□⊙9H
0.056	12.5	10	6.5	0.6	10	PD563*2J10G●□□□⊙9H
0.068	12.5	10.5	7.5	0.6	10	PD683*2J10G●□□□⊙9H
0.082	12.5	11	7.5	0.6	10	PD823*2J10G●□□□⊙9H
0.100	12.5	12	7	0.6	10	PD104*2J10B●□□□⊙GH
0.150	12.5	13	9	0.6	10	PD154*2J10B●□□□⊙GH
0.220	12.5	14.5	11	0.6	10	PD224*2J10G●□□□⊙9H
0.330	12.5	17	13	0.8	10	PD334*2J10B●□□□⊙9H
0.047	17.5	12	8	0.6	15	PD473*2J15B●□□□⊙GH
0.068	17.5	13.5	9	0.6	15	PD683*2J15G●□□□⊙9H
0.100	17.5	10	6.5	0.6	15	PD104*2J15G●□□□⊙9H
0.150	17.5	10.5	7.5	0.6	15	PD154*2J15G●□□□⊙GH
0.220	17.5	12	9	0.8	15	PD224*2J15G●□□□⊙9H

外形尺寸 Dimensions(mm)

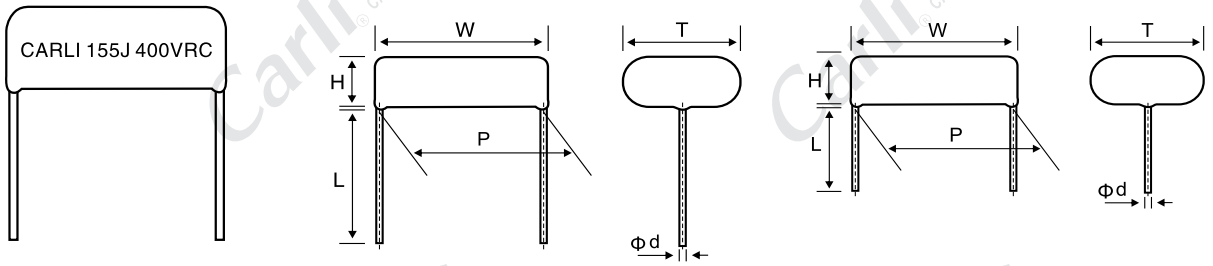
630VDC						
CAP (μF)	DIMENSIONS尺寸 (mm)					CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.330	17.5	13.5	10	0.8	15	PD334*2J15G●□□□⊙9H
0.470	17.5	14	9.5	0.8	15	PD474*2J15B●□□□⊙GH
0.560	17.5	14.5	10.5	0.8	15	PD564*2J15G●□□□⊙9H
0.680	17.5	15.5	10.5	0.8	15	PD684*2J15G●□□□⊙9H
0.820	17.5	17	12	0.8	15	PD824*2J15G●□□□⊙9H
1.000	17.5	18	13	0.8	15	PD105*2J15B●□□□⊙GH
1.000	25.5	15	11.5	0.8	22.5	PD105*2J22B●□□□⊙GH
1.500	25.5	17.5	13.5	0.8	22.5	PD155*2J22B●□□□⊙GH
2.200	25.5	20	16	0.8	22.5	PD225*2J22B●□□□⊙GH
1.000	31.5	16	12	0.8	27.5	PD105*2J27B●□□□⊙GH
1.500	31.5	18.5	14	0.8	27.5	PD155*2J27G●□□□⊙9H
2.200	31.5	21	16.5	0.8	27.5	PD225*2J27G●□□□⊙9H

备注：

1. “ ＊ ” 表示容量误差。
2. "■"表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4. "□□□"表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6. "R"=ROHS符合型;
   "H"=Halogen-Free无鹵型.
7. "# "当额定电压为400Vdc时 ,第7～8位是2G

1. "＊"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ：“ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”， “ 200 ”， “ 035 ”……
5. "⊙"=Lead Length Tolerance Code ：“ ±0.3 ”， “ ±0.5， “ ±1 ”……
6. "R"=ROHS compliant.
   "H"=Halogen-Free compliant.
7. "# "when the rated voltage is 400Vdc ,the digit 7~8 is 2G .

金属化聚丙烯膜电容器（浸渍型）
Metallized polypropylene film capacitor (Dipped -Type)



L-type　　H-type

特点
- 金属化聚丙烯膜, 无感捲绕结构
- 容量和电压范围宽
- 损耗小
- 阻燃环氧树脂粉末涂装

Features
- Metallized Polypropylene film , non- inductive wound construction
- Wide range of rated voltage and rated capacitance
- Low loss
- Flame retardent epoxy powder coating

典型应用
- 广泛应用於中频、交流电压、直流电压和脉冲放电回路线路上使用
- 耦合、交流和直流、滤波、旁路等及其他电源电子设备应用

Applications
- Widely used in MF,AC voltage,DC voltage and pulse discharge circuits
- Coupling,AC and DC,filtering,bypass,etc;and other power electr onics

技术要求/specifications

引用标准/Reference Standard		GB/T 10190 (IEC 60384-16)		
气候类别/Climatic Category		40/85/21		
额定温度/Rated Temperature		85℃		
工作温度范围/Operating Temperature Range		-40℃ ～ +85℃		
额定电压/Rated voltage	(vac at+85℃)	250VAC、300VAC、400VAC		
容量范围/Capacitance range		1.0μF～8.0μF		
容差/Capacitance tolerance		±5% (J),±10% (K)		
耐电压/Voltage Proof	(vac at+25℃)	1.25* R.V(AC), 5s (between terminals)		
损失角/Dissapation factor		≤0.1% (1KHz at 20～25℃)		
绝缘阻抗/Insulation Resistance		≥30 000MΩ,C_R≤0.33μF ≥10 000 s,C_R > 0.33μF(at 100 VDC , 60s 20～25℃,50%～55%RH)		
最大脉冲爬升速率Maximum Pulse Rise Time(dv/dt) : 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U .		U_R(V)	dv/dt(V/ μs)	
			P=31.5	P=41
		250VAC	30	21
		300VAC	40	30
		400VAC	65	45

备注：如客户有特别要求，可按客户要求生产。
Note:If the customer has special requirements,it can be produced according to customer requirements.

外形尺寸 Dimensions(mm)

MZP-250VAC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
3.00	34.5	11.5	15.0	0.8	31.5	ZP305J2131LL□□□⊙■H
4.00	34.5	13.0	16.5	0.8	31.5	ZP405J2131LL□□□⊙■H
5.00	34.5	13.0	18.5	0.8	31.5	ZP505J2131LL□□□⊙■H
6.00	34.5	13.0	20.5	0.8	31.5	ZP605J2131LL□□□⊙■H
7.00	34.5	17.0	20.0	0.8	31.5	ZP705J2131LL□□□⊙■H
8.00	34.5	18.0	22.0	0.8	31.5	ZP805J2131LL□□□⊙■H

MZP-300VAC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
2.00	44	10.5	14.5	0.8	41.5	ZP205J3W41LL□□□⊙■H
3.00	44	12.5	16.5	0.8	41.5	ZP305J3W41LL□□□⊙■H
4.00	34	15.5	18.5	0.8	31.5	ZP405J3W31LL□□□⊙■H
2.00	44	10.5	14.5	0.8	41.5	ZP205J3W41LL□□□⊙■H
3.00	44	12.5	16.5	0.8	41.5	ZP305J3W41LL□□□⊙■H
4.00	34	15.5	18.5	0.8	31.5	ZP405J3W31LL□□□⊙■H

MZP-400VAC

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
1.00	44	10	12.5	0.8	41.5	ZP105J2R41LL□□□⊙■H
1.50	44	10.5	16.5	0.8	41.5	ZP155J2R41LL□□□⊙■H
2.00	44	11.5	17.5	0.8	41.5	ZP205J2R41LL□□□⊙■H

MZP-450VDC (250VAC)

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
1.00	26	17.0	10.5	0.8	22.5	ZP105*2Y22■●□□□⊙■H
1.20	26	18.0	12.0	0.8	22.5	ZP125*2Y22■●□□□⊙■H
1.50	26	19.5	13.0	0.8	22.5	ZP155*2Y22■●□□□⊙■H
2.00	26	21.5	15.0	0.8	22.5	ZP105*2Y22■●□□□⊙■H
2.20	31	20.0	14.0	0.8	27.5	ZP205*2Y27■●□□□⊙■H
2.50	31	21.0	6.0	0.8	27.5	ZP225*2Y27■●□□□⊙■H
3.00	31	23.0	15.0	0.8	27.5	ZP305*2Y27■●□□□⊙■H
3.30	31	24.0	16.0	0.8	27.5	ZP335*2Y27■●□□□⊙■H
3.50	31	24.5	16.5	0.8	27.5	ZP355*2Y27■●□□□⊙■H
4.00	31	25.5	17.5	0.8	27.5	ZP105*2Y27■●□□□⊙■H
4.50	35	24.5	8.0	0.8	32	ZP405*2Y32■●□□□⊙■H
4.70	35	25.0	17.0	0.8	32	ZP475*2Y32■●□□□⊙■H
5.00	35	26.5	18.0	0.8	32	ZP505*2Y32■●□□□⊙■H
6.00	35	28.0	20.0	0.8	32	ZP605*2Y32■●□□□⊙■H
6.80	35	29.0	20.5	0.8	32	ZP685*2Y32■●□□□⊙■H
8.00	42	30.0	19.0	0.8	39.5	ZP805*2Y39■●□□□⊙■H

MZP-650VDC (380VAC)

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
1.00	26	19.0	13.0	0.8	22.5	ZP105*4J22■●□□□⊙■H
1.20	26	21.0	13.5	0.8	22.5	ZP125*4J22■●□□□⊙■H
1.50	26	23.0	15.0	0.8	22.5	ZP155*4J22■●□□□⊙■H
2.00	26	25.0	5.5	0.8	22.5	ZP205*4J22■●□□□⊙■H
2.20	26	26.5	17.5	0.8	22.5	ZP225*4J22■●□□□⊙■H
2.50	26	28.0	18.5	0.8	22.5	ZP255*4J22■●□□□⊙■H
3.00	31	27.5	18.0	0.8	27.5	ZP305*4J27■●□□□⊙■H
3.30	31	28.5	19.0	0.8	27.5	ZP335*4J27■●□□□⊙■H
3.50	31	29.0	19.5	0.8	27.5	ZP355*4J27■●□□□⊙■H
4.00	35	28.0	18.5	0.8	32	ZP405*4J32■●□□□⊙■H
4.50	35	29.0	19.5	0.8	32	ZP455*4J32■●□□□⊙■H
4.70	35	29.5	20.0	0.8	32	ZP475*4J32■●□□□⊙■H

MZP-1000VDC (420VAC)

CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.50	26	18.5	4.0	0.8	22.5	ZP504*3A22■●□□□⊙■H
0.68	26	20.0	14.0	0.8	22.5	ZP684*3A22■●□□□⊙■H
0.75	26	21.0	4.3	0.8	22.5	ZP754*3A22■●□□□⊙■H
1.00	26	23.0	4.5	0.8	22.5	ZP105*3A22■●□□□⊙■H
1.20	31	22.5	16.0	0.8	27.5	ZP125*3A27■●□□□⊙■H
1.50	31	24.0	18.0	0.8	27.5	ZP155*3A27■●□□□⊙■H
2.00	31	26.5	20.5	0.8	27.5	ZP205*3A27■●□□□⊙■H
2.20	35	28.5	20.5	1.0	32	ZP225*3A32■●□□□⊙■H
2.50	35	30.0	22.0	1.0	32	ZP255*3A32■●□□□⊙■H

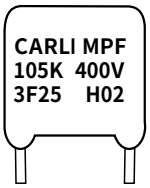
MZP-900VDC (400VAC)

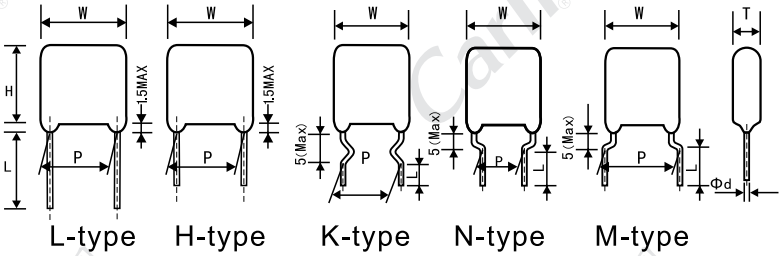
CAP (μF)	DIMENSIONS尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.50	26	17.0	11.0	0.8	22.5	ZP504*4D22■●□□□⊙■H
0.68	26	18.5	12.5	0.8	22.5	ZP684*4D22■●□□□⊙■H
0.75	26	19.5	13.0	0.8	22.5	ZP754*4D22■●□□□⊙■H
1.00	26	21.5	15.0	0.8	22.5	ZP105*4D22■●□□□⊙■H
1.20	26	22.5	16.0	0.8	22.5	ZP125*4D22■●□□□⊙■H
1.50	26	24.5	18.0	0.8	22.5	ZP155*4D22■●□□□⊙■H
2.00	26	28.0	5.5	0.8	22.5	ZP205*4D22■●□□□⊙■H
2.20	31	26.5	18.5	0.8	27.5	ZP225*4D27■●□□□⊙■H
2.50	31	27.5	19.5	0.8	27.5	ZP255*4D27■●□□□⊙■H
3.00	35	27.0	19.0	0.8	32	ZP305*4D32■●□□□⊙■H
3.30	35	28.0	20.0	0.8	32	ZP335*4D32■●□□□⊙■H

备注：
1. “＊”表示容量误差。
2."■"表示内部特征码。
3. “●”表示引線加工形式代码。
4."□□□"表示引線长度代码。
5. “⊙”表示引線长度误差代码。
6."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.

1. "＊"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ：“L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“270”，“200”，“035”……
5. "⊙"=Lead Length Tolerance Code ：“±0.3”，“±0.5，“±1”……
6. "R"=ROHS compliant.
"H"=Halogen-Free compliant.

金属化聚丙烯膜电容器（浸渍型）
Metallized Polypropylene Film Capacitor (Dipped)





特点
- 金属化聚丙烯膜，无感捲绕结构
- 容量和电压范围宽
- 高频损耗小
- 阻燃环氧树脂粉末涂装

典型应用
- 广泛应用於高频，直流，交流和脉冲迴路中
- 耦合，去耦，滤波，旁路等,广泛应用於电源供应器，镇流器，适配器中的PFC迴路滤波用。

Features
- Metallized Polypropylene film ,non-inductive wound construction
- Wide range of rated voltage and rated capacitance
- Low loss of high frequency
- Flame retardent epoxy powder coating

Applications
- Widely used in high frequency ,DC, AC and Pulse circuits
- Blocking ,coupling, decoupling, filtering,by-pass,It is popular for useing as filter in PFC circuit of SMPS, Ballaster, Adapter .

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别/Climatic Category	40/105/21				
额定温度/Rated Temperature	85°C				
工作温度范围 Operating Temperature Range	-40°C～+105°C. +85°C～+105°C:derating factor 1.25%per°C for R.V(DC)				
额定电压/Rated voltage	63VDC,100VDC, 250VDC, 400VDC, 630VDC				
容量范围/Capacitance range	0.0047μF～4.7μF				
容差/Capacitance tolerance	±5% (J),±10% (K),±20% (M)				
耐电压/Voltage Proof	1.4* R.V(DC) , 2s (between terminals)				
损失角/Dissapation factor	≤0.1% (1KHz at 20～25°C)				
绝缘阻抗/Insulation Resistance	≥30 000MΩ,C_R≤0.33μF ≥10 000 s,C_R > 0.33μF (at 100 VDC , 60s,20～25°C,50%～55%RH)				
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt): 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.	U_R(V)	dV/dt(V/μs)			
		P=10.0	P=15.0	P=22.5	P=27.5
	100	150	110	80	60
	250	560	310	150	110
	400	780	600	300	180
	630	1200	900	400	220

MPF-100VDC

CAP (μF)	DIMENSIONS尺寸 (mm)					
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	10	6	0.6	10	PF103∗2A10■●□□□⊙■R
0.015	13	9	6	0.6	10	PF153∗2A10■●□□□⊙■R
0.022	13	10	7	0.6	10	PF223∗2A10■●□□□⊙■R
0.033	13	10	7	0.6	10	PF333∗2A10■●□□□⊙■R
0.047	13	12.5	7.5	0.6	10	PF473∗2A10■●□□□⊙■R
0.068	13	10	7	0.6	10	PF683∗2A10■●□□□⊙■R
0.1	13	11	7	0.6	10	PF104∗2A10■●□□□⊙■R
0.15	13	12	8	0.6	10	PF154∗2A10■●□□□⊙■R
0.22	13	12	8	0.6	10	PF224∗2A10■●□□□⊙■R
0.33	13	14.5	6.5	0.6	10	PF334∗2A10■●□□□⊙■R
0.22	18	13	7	0.8	15	PF224∗2A15■●□□□⊙■R
0.33	18	13.5	8	0.8	15	PF334∗2A15■●□□□⊙■R
0.47	18	14	9	0.8	15	PF474∗2A15■●□□□⊙■R
0.68	18	15	8	0.8	15	PF684∗2A15■●□□□⊙■R
1.0	24	18	11	0.8	20	PF105∗2A20■●□□□⊙■R
1.5	24	20	12	0.8	20	PF155∗2A20■●□□□⊙■R
2.2	24	23	14	0.8	20	PF225∗2A20■●□□□⊙■R
3.3	32	19.5	10.5	0.8	27.5	PF335∗2A27■●□□□⊙■R
4.7	32	24	14	0.8	27.5	PF475∗2A27■●□□□⊙■R

MPF-250VDC

CAP (μF)	DIMENSIONS尺寸 (mm)					
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	10	6	0.6	10	PF103∗2E10■●□□□⊙■R
0.015	13	10	6	0.6	10	PF153∗2E10■●□□□⊙■R
0.022	13	10	7	0.6	10	PF223∗2E10■●□□□⊙■R
0.033	13	10.5	7	0.6	10	PF333∗2E10■●□□□⊙■R
0.047	13	12.5	7.5	0.6	10	PF473∗2E10■●□□□⊙■R
0.068	13	10	7	0.6	10	PF683∗2E10■●□□□⊙■R
0.1	13	11	7	0.6	10	PF104∗2E10■●□□□⊙■R
0.15	13	12	8	0.6	10	PF154∗2E10■●□□□⊙■R
0.22	13	12	8	0.6	10	PF224∗2E10■●□□□⊙■R
0.33	13	15	8	0.6	10	PF334∗2E10■●□□□⊙■R
0.22	18	13	7	0.8	15	PF224∗2E15■●□□□⊙■R
0.33	18	13.5	8	0.8	15	PF334∗2E15■●□□□⊙■R
0.47	18	14	9	0.8	15	PF474∗2E15■●□□□⊙■R
0.68	18	15	8	0.8	15	PF684∗2E15B●□□□⊙■R
1.0	24	18	11	0.8	20	PF105∗2E20■●□□□⊙■R
1.5	24	20	12	0.8	20	PF155∗2E20■●□□□⊙■R
2.2	24	23	14	0.8	20	PF225∗2E20■●□□□⊙■R
3.3	26	23	13	0.8	22.5	PF335∗2E22■●□□□⊙■R
3.3	32	25	15	0.8	27.5	PF335∗2E27■●□□□⊙■R
4.7	32	28	15	0.8	27.5	PF475∗2E27■●□□□⊙■R

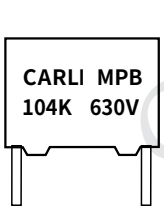
MPF-400VDC

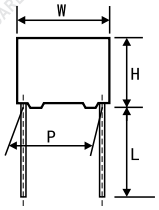
CAP (μF)	DIMENSIONS尺寸 (mm)					
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0047	13	10	6	0.6	10	PF472∗2G10■●□□□⊙■R
0.0068	13	10	6	0.6	10	PF682∗2G10■●□□□⊙■R
0.01	13	10	6	0.6	10	PF103∗2G10■●□□□⊙■R
0.015	13	10	7	0.6	10	PF153∗2G10■●□□□⊙■R
0.022	13	10	7	0.6	10	PF223∗2G10■●□□□⊙■R
0.033	13	10.5	7	0.6	10	PF333∗2G10■●□□□⊙■R
0.047	13	12.5	7.5	0.6	10	PF473∗2G10■●□□□⊙■R
0.068	13	13	8	0.6	10	PF683∗2G10■●□□□⊙■R
0.1	13	12.5	7.5	0.6	10	PF104∗2G10B●□□□⊙■R
0.1	13	13	10	0.6	10	PF104∗2G10■●□□□⊙■R
0.1	18	13.5	8	0.8	15	PF104∗2G15■●□□□⊙■R
0.15	18	13.5	8	0.8	15	PF154∗2G15■●□□□⊙■R
0.22	18	15	9	0.8	15	PF224∗2G15■●□□□⊙■R
0.33	18	13	9	0.8	15	PF334∗2G15B●□□□⊙■R
0.47	18	16	11	0.8	15	PF474∗2G15B●□□□⊙■R
0.68	18	19.5	13	0.8	15	PF684∗2G15■●□□□⊙■R
0.47	24	20	11	0.8	20	PF474∗2G20■●□□□⊙■R
0.68	24	22	13	0.8	20	PF684∗2G20■●□□□⊙■R
1.0	24	21	13	0.8	20	PF105∗2G20■●□□□⊙■R
1.5	32	22	12	0.8	27.5	PF155∗2G27■●□□□⊙■R
2.2	32	24	15	0.8	27.5	PF225∗2G27■●□□□⊙■R

MPF-630VDC

CAP (μF)	DIMENSIONS尺寸 (mm)					
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0047	13	10	6	0.6	10	PF472∗2J10■●□□□⊙■R
0.0068	13	10	6	0.6	10	PF682∗2J10■●□□□⊙■R
0.01	13	10	6	0.6	10	PF103∗2J10■●□□□⊙■R
0.015	13	11.5	7	0.6	10	PF153∗2J10■●□□□⊙■R
0.022	13	12.5	8	0.6	10	PF223∗2J10■●□□□⊙■R
0.033	13	13	9	0.6	10	PF333∗2J10■●□□□⊙■R
0.047	13	12.5	7.5	0.6	10	PF473∗2J10C●□□□⊙■R
0.022	18	12	8	0.6	15	PF223∗2J15■●□□□⊙■R
0.033	18	12.5	8	0.6	15	PF333∗2J15■●□□□⊙■R
0.047	18	14.5	9	0.8	15	PF473∗2J15■●□□□⊙■R
0.068	18	13	9.5	0.8	15	PF683∗2J15■●□□□⊙■R
0.1	18	12.5	8	0.8	15	PF104∗2J15C●□□□⊙■R
0.1	18	17	10	0.8	15	PF104∗2J15■●□□□⊙■R
0.15	18	18	13	0.8	15	PF154∗2J15■●□□□⊙■R
0.22	24	18.5	12	0.8	20	PF224∗2J20■●□□□⊙■R
0.33	24	18.5	9	0.8	20	PF334∗2J20■●□□□⊙■R
0.47	26	18	12	0.8	22.5	PF474∗2J22B●□□□⊙■R
0.47	26	23	15	0.8	22.5	PF474∗2J22■●□□□⊙■R
0.68	26	21	14	0.8	22.5	PF684∗2J22B●□□□⊙■R
1.0	26	24	17	0.8	22.5	PF105∗2J22B●□□□⊙■R
0.22	32	17	10	0.8	27.5	PF224∗2J27■●□□□⊙■R
0.33	32	20	12	0.8	27.5	PF334∗2J27■●□□□⊙■R
0.47	32	23	13	0.8	27.5	PF474∗2J27■●□□□⊙■R
0.68	32	19	11	0.8	27.5	PF684∗2J27C●□□□⊙■R
1.0	32	23	13	0.8	27.5	PF105∗2J27C●□□□⊙■R

金属化聚丙烯膜电容器（盒装型）
Metallized Polypropylene Film Capacitor (Box-type)





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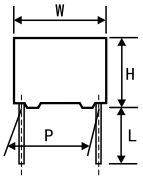

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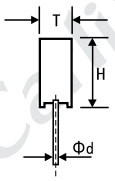


特点

- 金属化聚丙烯膜，无感捲绕结构
- 容量和电压范围宽
- 高频损耗小
- 塑胶外壳，阻燃环氧树脂填充

典型应用

- 广泛应用於高频，直流，交流和脉冲迴路中
- 耦合，去耦，滤波，旁路等,广泛应用於电源供应器，镇流器，适配器中的PFC迴路滤波用。

Features

- Metallized Polypropylene film ,non-inductive wound construction
- Wide range of rated voltage and rated capacitance
- Low loss of high frequency
- Plastic case ,Flame retardent epoxy resin sealing

Applications

- Widely used in high frequency ,DC, AC and Pulse circuits
- Blocking ,coupling, decoupling, filtering,by-pass,It is popular for useing as filter in PFC circuit of SMPS, Ballaster, Adapter .

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别/Climatic Category	40/105/21				
额定温度/Rated Temperature	85°C				
工作温度范围 Operating Temperature Range	-40°C～+105°C. +85°C～+105°C:derating factor 1.25%per°C for R.V(DC)				
额定电压/Rated voltage	100VDC,250VDC,400VDC,450VDC,630VDC				
容量范围/Capacitance range	0.01uF～6.8uF				
容差/Capacitance tolerance	±5%(J),±10%(K)±20%(M)				
耐电压/Voltage Proof	1.4*R.V(DC),2s (between terminals)				
损失角/Dissapation factor	≤0.1% (1KHz at 20～25°C)				
损绝缘阻抗 Insulation Resistance	≥30 000MΩ,C_R ≤0.33uF ≥10 000 s,C_R ＞0.33uF (at 100VDC,1min,20～25°C,50%～55%RH)				
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt): 若实际工作电压U比额定电压U_R低，电容器可工作在更高的dV/dt场合。这样dV/dt充许值应为右表值乘U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt,In thiscase,the maxmum allowed dV/dt is obtain by multiplyingthe right value with U_R/U	U_R(V)	dV/dt(V/u s)			
		P=10	P=15.0	P=22.5	P=27.5
	100	150	110	80	55
	250	560	310	150	110
	400	780	600	300	180
	630	1200	900	400	220

外形尺寸 Dimensions(mm)

100Vdc

CAP (μF)	DIMENSIONS尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	9	4	0.6	10	PB103∗2AC1■●□□□⊙■R
0.015	13	9	4	0.6	10	PB153∗2AC1■●□□□⊙■R
0.022	13	11	5	0.6	10	PB223∗2AC2■●□□□⊙■R
0.033	13	11	5	0.6	10	PB333∗2AC2■●□□□⊙■R
0.047	13	11	5	0.6	10	PB473∗2AC2■●□□□⊙■R
0.068	13	11	5	0.6	10	PB683∗2AC2■●□□□⊙■R
0.1	13	11	5	0.6	10	PB104∗2AC2■●□□□⊙■R
0.15	13	11	5	0.6	10	PB154∗2AC2■●□□□⊙■R
0.22	13	12	6	0.6	10	PB224∗2AC3■●□□□⊙■R
0.33	13	12.5	7	0.6	10	PB334∗2AC4■●□□□⊙■R
0.47	13	16	8	0.6	10	PB474∗2AC5■●□□□⊙■R
0.68	13	19	9	0.8	10	PB684∗2AC6■●□□□⊙■R
1.0	13	21	11.5	0.8	10	PB105∗2AC7■●□□□⊙■R
0.33	18	11	5	0.6	15	PB334∗2AD1■●□□□⊙■R
0.47	18	12	6	0.8	15	PB474∗2AD2■●□□□⊙■R
0.68	18	13.5	7.5	0.8	15	PB684∗2AD3■●□□□⊙■R
1.0	17.5	17	7.5	0.8	15	PB105∗2AD32●□□□⊙■R
1.5	18	18.5	11	0.8	15	PB155∗2AD6■●□□□⊙■R
1.5	26.5	17	8.5	0.8	22.5	PB155∗2AE3■●□□□⊙■R
2.2	26.5	19	10	0.8	22.5	PB225∗2AE4■●□□□⊙■R
3.3	26	21.5	12	0.8	22.5	PB335∗2AE6■●□□□⊙■R
4.7	32	25	15	0.8	27.5	PB475∗2AF3■●□□□⊙■R
6.8	32	30	18	0.8	27.5	PB685∗2AF4■●□□□⊙■R

250Vdc

CAP (μF)	DIMENSIONS尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	9	4	0.6	10	PB103∗2EC1■●□□□⊙■R
0.015	13	9	4	0.6	10	PB153∗2EC1■●□□□⊙■R
0.022	13	11	5	0.6	10	PB223∗2EC2■●□□□⊙■R
0.033	13	11	5	0.6	10	PB333∗2EC2■●□□□⊙■R
0.047	13	11	5	0.6	10	PB473∗2EC2■●□□□⊙■R
0.068	13	11	5	0.6	10	PB683∗2EC2■●□□□⊙■R
0.1	13	11	5	0.6	10	PB104∗2EC2■●□□□⊙■R
0.15	13	12	6	0.6	10	PB154∗2EC3■●□□□⊙■R
0.22	13	12.5	7	0.6	10	PB224∗2EC4■●□□□⊙■R
0.33	18	13	6.5	0.8	15	PB334∗2ED25●□□□⊙■R
0.47	18	14.5	8.5	0.8	15	PB474∗2ED4■●□□□⊙■R
0.68	18	16	10	0.8	15	PB684∗2ED5■●□□□⊙■R
1.0	18	18.5	11	0.8	15	PB105∗2ED6■●□□□⊙■R
1.0	26.5	17	8.5	0.8	22.5	PB105∗2EE3■●□□□⊙■R
1.5	26	20	11	0.8	22.5	PB155∗2EE5■●□□□⊙■R
2.2	26	25	16.5	0.8	22.5	PB225∗2EE8■●□□□⊙■R
1.5	30	17.5	10	0.8	27.5	PB155∗2EF0■●□□□⊙■R
2.2	32	22	13	0.8	27.5	PB225∗2EF2■●□□□⊙■R
3.3	32	25	15	0.8	27.5	PB335∗2EF3■●□□□⊙■R
4.7	32	30	18	0.8	27.5	PB475∗2EF4■●□□□⊙■R

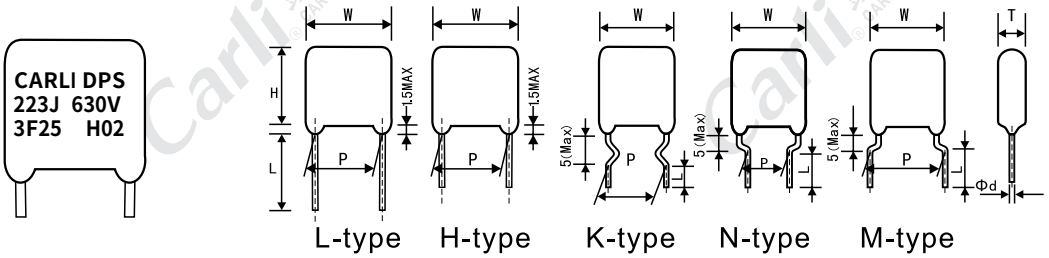
400Vdc

CAP (μF)	DIMENSIONS尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	9	4	0.6	10	PB103∗2GC1■●□□□⊙■R
0.015	13	9	4	0.6	10	PB153∗2GC1■●□□□⊙■R
0.022	13	11	5	0.6	10	PB223∗2GC2■●□□□⊙■R
0.033	13	11	5	0.6	10	PB333∗2GC2■●□□□⊙■R
0.047	13	11	5	0.6	10	PB473∗2GC2■●□□□⊙■R
0.068	13	11	5	0.6	10	PB683∗2GC2■●□□□⊙■R
0.1	13	12	6	0.6	10	PB104∗2GC3■●□□□⊙■R
0.15	13	12.5	7	0.6	10	PB154∗2GC4■●□□□⊙■R
0.22	18	13.5	7.5	0.8	15	PB224∗2GD3■●□□□⊙■R
0.33	18	14.5	8.5	0.8	15	PB334∗2GD4■●□□□⊙■R
0.47	18	16	10	0.8	15	PB474∗2GD5■●□□□⊙■R
0.68	18	18.5	11	0.8	15	PB684∗2GD6■●□□□⊙■R
1.0	26	20	11	0.8	22.5	PB105∗2GE5■●□□□⊙■R
1.5	26	25	15	0.8	22.5	PB155∗2GE8■●□□□⊙■R
1.5	32	22	13	0.8	27.5	PB155∗2GF2■●□□□⊙■R
2.2	32	25	15	0.8	27.5	PB225∗2GF3■●□□□⊙■R
3.3	32	30	18	0.8	27.5	PB335∗2GF4■●□□□⊙■R

630Vdc

CAP (μF)	DIMENSIONS尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.01	13	11	5	0.6	10	PB103∗2JC2■●□□□⊙■R
0.015	13	11	5	0.6	10	PB153∗2JC2■●□□□⊙■R
0.022	13	12	6	0.6	10	PB223∗2JC3■●□□□⊙■R
0.033	13	12	6	0.6	10	PB333∗2JC3■●□□□⊙■R
0.047	13	12	6	0.6	10	PB473∗2JC3■●□□□⊙■R
0.068	18	11	5	0.6	10	PB683∗2JD1■●□□□⊙■R
0.1	18	11	5	0.6	15	PB104∗2JD1■●□□□⊙■R
0.15	18	13.5	7.5	0.8	15	PB154∗2JD3■●□□□⊙■R
0.22	18	14.5	8.5	0.8	15	PB224∗2JD4■●□□□⊙■R
0.33	18	16	10	0.8	15	PB334∗2JD5■●□□□⊙■R
0.47	18	18.5	11	0.8	15	PB474∗2JD6■●□□□⊙■R
0.22	26.5	17	7	0.8	22.5	PB224∗2JE2■●□□□⊙■R
0.33	26.5	17	8.5	0.8	22.5	PB334∗2JE3■●□□□⊙■R
0.47	26.5	19	10	0.8	22.5	PB474∗2JE4■●□□□⊙■R
0.68	26.5	19	10	0.8	22.5	PB684∗2JE4■●□□□⊙■R
1.0	26	21.5	12	0.8	22.5	PB105∗2JE6■●□□□⊙■R
1.5	32	25	15	0.8	27.5	PB155∗2JF3■●□□□⊙■R
2.2	32	30	18	0.8	27.5	PB225∗2JF4■●□□□⊙■R

高压串联金属化聚丙烯膜电容器（浸渍型）
High Voltage Series Metallized Polypropylene Film Capacitor (Dipped)



特点
- 金属化聚丙烯膜，串联结构
- 高频损耗小
- 内部温升低
- 阻燃环氧树脂粉末涂装

Features
- Metallized polypropylene film , non-inductive series wound construction
- Low loss at high frequency
- Small inherent temperature rise
- Flame retardent epoxy powder coating

典型应用
- 广泛用於高频，高压, 直流，交流和脉冲迴路中
- 电视机和显示器S-校正电路

Applications
- Widely used in high frequency ,high voltage ,DC ,AC and pulse circuits
- S-correction circuits in TV sets and monitors

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别/Climatic Category	40/105/56				
额定温度/Rated Temperature	85°C				
工作温度范围 /Operating Temperature Range	-40°C～+105°C. (+85°C～+105°C:derating factor 1.25%per°C for UR(dc)				
额定电压/Rated voltage	630Vdc,800Vdc,1000Vdc,1200Vdc,1600Vdc,2000Vdc,2500Vdc				
容量范围/Capacitance range	0.0047μF～0.33μF				
容差/Capacitance tolerance	±5% (J),±10% (K)				
耐电压/Voltage Proof	1.4 UR , 2s				
损失角/Dissapation factor	≤0.1% (1KHz at 20~25°C)				
绝缘阻抗/Insulation Resistance	≥50 000MΩ,C_R≤0.33μF ≥15 000 s,C_R > 0.33μF , (at 100VDC, 1min ,20～25°C,50%～55%)				
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt): 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.	U_R(V)	dV/dt(V/μs)			
		P=10	P=15.0	P=22.5	P=27.5
	630/800	1200	900	400	200
	1000/1200	2200	2000	800	400
	1600	--	4500	1800	900
	2000	--	9500	4500	--
	2500	--	10000	5000	--

外形尺寸 Dimensions(mm)

630VDC

CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.001	13	9	6	0.6	10	DS102 ✶ 2J10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	DS122 ✶ 2J10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	DS152 ✶ 2J10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	DS182 ✶ 2J10 ■●□□□⊙■ R
0.0022	13	9	6	0.6	10	DS222 ✶ 2J10 ■●□□□⊙■ R
0.0027	13	9	6	0.6	10	DS272 ✶ 2J10 ■●□□□⊙■ R
0.0033	13	9	6	0.6	10	DS332 ✶ 2J10 ■●□□□⊙■ R
0.0039	13	11	7	0.6	10	DS392 ✶ 2J10 ■●□□□⊙■ R
0.0047	13	11	7	0.6	10	DS472 ✶ 2J10 ■●□□□⊙■ R
0.0056	13	11	7	0.6	10	DS562 ✶ 2J10 ■●□□□⊙■ R
0.0068	13	11	7	0.6	10	DS682 ✶ 2J10 ■●□□□⊙■ R
0.0082	13	11	7	0.6	10	DS822 ✶ 2J10 ■●□□□⊙■ R
0.01	13	12	8	0.6	10	DS103 ✶ 2J10 ■●□□□⊙■ R
0.012	13	12	8	0.6	10	DS123 ✶ 2J10 ■●□□□⊙■ R
0.015	13	12.5	9	0.6	10	DS153 ✶ 2J10 ■●□□□⊙■ R
0.018	13	12.5	9	0.6	10	DS183 ✶ 2J10 ■●□□□⊙■ R
0.022	18	11	7	0.8	15	DS223 ✶ 2J15 ■●□□□⊙■ R
0.027	18	11	7	0.8	15	DS273 ✶ 2J15 ■●□□□⊙■ R
0.033	18	11	7	0.8	15	DS333 ✶ 2J15 ■●□□□⊙■ R
0.039	18	12	8	0.8	15	DS393 ✶ 2J15 ■●□□□⊙■ R
0.047	18	12	8	0.8	15	DS473 ✶ 2J15 ■●□□□⊙■ R
0.056	18	13	8.5	0.8	15	DS563 ✶ 2J15 ■●□□□⊙■ R
0.068	18	13.5	9.5	0.8	15	DS683 ✶ 2J15 ■●□□□⊙■ R
0.082	18	14.5	10.5	0.8	15	DS823 ✶ 2J15 ■●□□□⊙■ R
0.1	18	17	10.5	0.8	15	DS104 ✶ 2J15 ■●□□□⊙■ R
0.12	18	16	12	0.8	15	DS124 ✶ 2J15 ■●□□□⊙■ R
0.15	18	18.5	13	0.8	15	DS154 ✶ 2J15 ■●□□□⊙■ R
0.18	18	18.5	13	0.8	15	DS184 ✶ 2J15 ■●□□□⊙■ R
0.22	26	17	10.5	0.8	22.5	DS224 ✶ 2J22 ■●□□□⊙■ R
0.27	26	19	12	0.8	22.5	DS274 ✶ 2J22 ■●□□□⊙■ R
0.33	26	20	13	0.8	22.5	DS334 ✶ 2J22 ■●□□□⊙■ R

800VDC

CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.001	13	9	6	0.6	10	DS102 ✶ 2K10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	DS122 ✶ 2K10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	DS152 ✶ 2K10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	DS182 ✶ 2K10 ■●□□□⊙■ R
0.0022	13	9	6	0.6	10	DS222 ✶ 2K10 ■●□□□⊙■ R
0.0027	13	9	6	0.6	10	DS272 ✶ 2K10 ■●□□□⊙■ R
0.0033	13	9	6	0.6	10	DS332 ✶ 2K10 ■●□□□⊙■ R
0.0039	13	11	7	0.6	10	DS392 ✶ 2K10 ■●□□□⊙■ R
0.0047	13	11	7	0.6	10	DS472 ✶ 2K10 ■●□□□⊙■ R
0.0056	13	11	7	0.6	10	DS562 ✶ 2K10 ■●□□□⊙■ R
0.0068	13	12	8	0.6	10	DS682 ✶ 2K10 ■●□□□⊙■ R
0.0082	13	12	8	0.6	10	DS822 ✶ 2K10 ■●□□□⊙■ R
0.01	13	12.5	9	0.6	10	DS103 ✶ 2K10 ■●□□□⊙■ R
0.012	18	11	7	0.8	15	DS123 ✶ 2K15 ■●□□□⊙■ R
0.015	18	11	7	0.8	15	DS153 ✶ 2K15 ■●□□□⊙■ R
0.018	18	11	7	0.8	15	DS183 ✶ 2K15 ■●□□□⊙■ R
0.022	18	11	7	0.8	15	DS223 ✶ 2K15 ■●□□□⊙■ R
0.027	18	12	8	0.8	15	DS273 ✶ 2K15 ■●□□□⊙■ R
0.033	18	13	8.5	0.8	15	DS333 ✶ 2K15 ■●□□□⊙■ R
0.039	18	13.5	9.5	0.8	15	DS393 ✶ 2K15 ■●□□□⊙■ R
0.047	18	13.5	9.5	0.8	15	DS473 ✶ 2K15 ■●□□□⊙■ R
0.056	18	14.5	10.5	0.8	15	DS563 ✶ 2K15 ■●□□□⊙■ R
0.068	18	14.5	10.5	0.8	15	DS683 ✶ 2K15 ■●□□□⊙■ R
0.082	18	16	12	0.8	15	DS823 ✶ 2K15 ■●□□□⊙■ R
0.1	18	18.5	13	0.8	15	DS104 ✶ 2K15 ■●□□□⊙■ R
0.12	18	18.5	13	0.8	15	DS124 ✶ 2K15 ■●□□□⊙■ R
0.15	26	17	10.5	0.8	22.5	DS154 ✶ 2K22 ■●□□□⊙■ R
0.18	26	19	12	0.8	22.5	DS184 ✶ 2K22 ■●□□□⊙■ R
0.22	26	20	13	0.8	22.5	DS224 ✶ 2K22 ■●□□□⊙■ R
0.27	26	21.5	14	0.8	22.5	DS274 ✶ 2K22 ■●□□□⊙■ R

Carli 凱勵集團 CARLI GROUP LIMITED

外形尺寸 Dimensions(mm)

1000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	9	6	0.6	10	DS102 ✳ 3A10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	DS122 ✳ 3A10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	DS152 ✳ 3A10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	DS182 ✳ 3A10 ■●□□□⊙■ R
0.0022	13	9	6	0.6	10	DS222 ✳ 3A10 ■●□□□⊙■ R
0.0027	13	9	6	0.6	10	DS272 ✳ 3A10 ■●□□□⊙■ R
0.0033	13	11	7	0.6	10	DS332 ✳ 3A10 ■●□□□⊙■ R
0.0039	13	11	7	0.6	10	DS392 ✳ 3A10 ■●□□□⊙■ R
0.0047	13	11	7	0.6	10	DS472 ✳ 3A10 ■●□□□⊙■ R
0.0056	13	12	8	0.6	10	DS562 ✳ 3A10 ■●□□□⊙■ R
0.0068	13	12	8	0.6	10	DS682 ✳ 3A10 ■●□□□⊙■ R
0.0082	13	12.5	9	0.6	10	DS822 ✳ 3A10 ■●□□□⊙■ R
0.01	18	11	7	0.8	15	DS103 ✳ 3A15 ■●□□□⊙■ R
0.012	18	11	7	0.8	15	DS123 ✳ 3A15 ■●□□□⊙■ R
0.015	18	11	7	0.8	15	DS153 ✳ 3A15 ■●□□□⊙■ R
0.018	18	12	8	0.8	15	DS183 ✳ 3A15 ■●□□□⊙■ R
0.022	18	12	8	0.8	15	DS223 ✳ 3A15 ■●□□□⊙■ R
0.027	18	13	8.5	0.8	15	DS273 ✳ 3A15 ■●□□□⊙■ R
0.033	18	13.5	9.5	0.8	15	DS333 ✳ 3A15 ■●□□□⊙■ R
0.039	18	14.5	10.5	0.8	15	DS393 ✳ 3A15 ■●□□□⊙■ R
0.047	18	14.5	10.5	0.8	15	DS473 ✳ 3A15 ■●□□□⊙■ R
0.056	18	17	10.5	0.8	15	DS563 ✳ 3A15 ■●□□□⊙■ R
0.068	18	16	12	0.8	15	DS683 ✳ 3A15 ■●□□□⊙■ R
0.082	18	18.5	13	0.8	15	DS823 ✳ 3A15 ■●□□□⊙■ R
0.1	26	17	10.5	0.8	22.5	DS104 ✳ 3A22 ■●□□□⊙■ R
0.12	26	17	10.5	0.8	22.5	DS124 ✳ 3A22 ■●□□□⊙■ R
0.15	26	19	12	0.8	22.5	DS154 ✳ 3A22 ■●□□□⊙■ R
0.18	26	20	13	0.8	22.5	DS184 ✳ 3A22 ■●□□□⊙■ R
0.22	26	21.5	14	0.8	22.5	DS224 ✳ 3A22 ■●□□□⊙■ R

1200VDC/1250VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	9	6	0.6	10	DS102 ✳ 3B10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	DS122 ✳ 3B10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	DS152 ✳ 3B10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	DS182 ✳ 3B10 ■●□□□⊙■ R
0.0022	13	11	7	0.6	10	DS222 ✳ 3B10 ■●□□□⊙■ R
0.0027	13	11	7	0.6	10	DS272 ✳ 3B10 ■●□□□⊙■ R
0.0033	13	12	8	0.6	10	DS332 ✳ 3B10 ■●□□□⊙■ R
0.0039	13	12	8	0.6	10	DS392 ✳ 3B10 ■●□□□⊙■ R
0.0047	13	12	8	0.6	10	DS472 ✳ 3B10 ■●□□□⊙■ R
0.0056	13	12.5	9	0.6	10	DS562 ✳ 3B10 ■●□□□⊙■ R
0.0068	18	11	7	0.8	15	DS682 ✳ 3B15 ■●□□□⊙■ R
0.0082	18	11	7	0.8	15	DS822 ✳ 3B15 ■●□□□⊙■ R
0.01	18	11	7	0.8	15	DS103 ✳ 3B15 ■●□□□⊙■ R
0.012	18	11	7	0.8	15	DS123 ✳ 3B15 ■●□□□⊙■ R
0.015	18	12	8	0.8	15	DS153 ✳ 3B15 ■●□□□⊙■ R
0.018	18	13	8.5	0.8	15	DS183 ✳ 3B15 ■●□□□⊙■ R
0.022	18	13.5	9.5	0.8	15	DS223 ✳ 3B15 ■●□□□⊙■ R
0.027	18	13.5	9.5	0.8	15	DS273 ✳ 3B15 ■●□□□⊙■ R
0.033	18	14.5	10.5	0.8	15	DS333 ✳ 3B15 ■●□□□⊙■ R
0.039	18	17	10.5	0.8	15	DS393 ✳ 3B15 ■●□□□⊙■ R
0.047	18	16	12	0.8	15	DS473 ✳ 3B15 ■●□□□⊙■ R
0.056	18	18.5	13	0.8	15	DS563 ✳ 3B15 ■●□□□⊙■ R
0.068	26	17	10.5	0.8	22.5	DS683 ✳ 3B22 ■●□□□⊙■ R
0.082	26	17	10.5	0.8	22.5	DS823 ✳ 3B22 ■●□□□⊙■ R
0.1	26	19	12	0.8	22.5	DS104 ✳ 3B22 ■●□□□⊙■ R
0.12	26	20	13	0.8	22.5	DS124 ✳ 3B22 ■●□□□⊙■ R
0.15	26	21.5	14	0.8	22.5	DS154 ✳ 3B22 ■●□□□⊙■ R

1600VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	11	7	0.6	10	DS102 ✳ 3C10 ■●□□□⊙■ R
0.0012	13	11	7	0.6	10	DS122 ✳ 3C10 ■●□□□⊙■ R
0.0015	13	12	8	0.6	10	DS152 ✳ 3C10 ■●□□□⊙■ R
0.0018	13	12	8	0.6	10	DS182 ✳ 3C10 ■●□□□⊙■ R
0.0022	13	12.5	9	0.6	10	DS222 ✳ 3C10 ■●□□□⊙■ R
0.0027	13	12.5	9	0.6	10	DS272 ✳ 3C10 ■●□□□⊙■ R
0.0033	13	16	10	0.6	10	DS332 ✳ 3C10 ■●□□□⊙■ R
0.0039	18	11	7	0.8	15	DS392 ✳ 3C15 ■●□□□⊙■ R
0.0047	18	11	7	0.8	15	DS392 ✳ 3C15 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1600VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0056	18	12	8	0.8	15	DS562 ✳ 3C15 ■●□□□⊙■ R
0.0068	18	12	8	0.8	15	DS682 ✳ 3C15 ■●□□□⊙■ R
0.0082	18	12	8	0.8	15	DS822 ✳ 3C15 ■●□□□⊙■ R
0.01	18	13.5	9.5	0.8	15	DS103 ✳ 3C15 ■●□□□⊙■ R
0.012	18	14.5	10.5	0.8	15	DS123 ✳ 3C15 ■●□□□⊙■ R
0.015	18	14.5	10.5	0.8	15	DS153 ✳ 3C15 ■●□□□⊙■ R
0.018	18	17	10.5	0.8	15	DS183 ✳ 3C15 ■●□□□⊙■ R
0.022	18	16	12	0.8	15	DS223 ✳ 3C15 ■●□□□⊙■ R
0.027	18	18.5	13	0.8	15	DS273 ✳ 3C15 ■●□□□⊙■ R
0.033	26	17	10.5	0.8	22.5	DS333 ✳ 3C22 ■●□□□⊙■ R
0.039	26	19	12	0.8	22.5	DS393 ✳ 3C22 ■●□□□⊙■ R
0.047	26	19	12	0.8	22.5	DS473 ✳ 3C22 ■●□□□⊙■ R
0.056	26	20	13	0.8	22.5	DS563 ✳ 3C22 ■●□□□⊙■ R
0.068	26	21.5	14	0.8	22.5	DS683 ✳ 3C22 ■●□□□⊙■ R
0.082	26	25	18.5	0.8	22.5	DS823 ✳ 3C22 ■●□□□⊙■ R
0.1	26	25	18.5	0.8	22.5	DS104 ✳ 3C22 ■●□□□⊙■ R

2000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0012	18	11	7	0.8	15	DS122 ✳ 3D15 ■●□□□⊙■ R
0.0015	18	11	7	0.8	15	DS152 ✳ 3D15 ■●□□□⊙■ R
0.0018	18	11	7	0.8	15	DS182 ✳ 3D15 ■●□□□⊙■ R
0.0022	18	11	7	0.8	15	DS222 ✳ 3D15 ■●□□□⊙■ R
0.0027	18	11	7	0.8	15	DS272 ✳ 3D15 ■●□□□⊙■ R
0.0033	18	12	8	0.8	15	DS332 ✳ 3D15 ■●□□□⊙■ R
0.0039	18	12	8	0.8	15	DS392 ✳ 3D15 ■●□□□⊙■ R
0.0047	18	13	8.5	0.8	15	DS472 ✳ 3D15 ■●□□□⊙■ R
0.0056	18	13.5	9.5	0.8	15	DS562 ✳ 3D15 ■●□□□⊙■ R
0.0068	18	14.5	10.5	0.8	15	DS682 ✳ 3D15 ■●□□□⊙■ R
0.0082	18	17	10.5	0.8	15	DS822 ✳ 3D15 ■●□□□⊙■ R
0.01	18	16	12	0.8	15	DS103 ✳ 3D15 ■●□□□⊙■ R
0.012	18	18.5	13	0.8	15	DS123 ✳ 3D15 ■●□□□⊙■ R
0.015	18	18.5	13	0.8	15	DS153 ✳ 3D15 ■●□□□⊙■ R
0.018	26	17	10.5	0.8	22.5	DS183 ✳ 3D22 ■●□□□⊙■ R
0.022	26	19	12	0.8	22.5	DS223 ✳ 3D22 ■●□□□⊙■ R
0.027	26	20	13	0.8	22.5	DS273 ✳ 3D22 ■●□□□⊙■ R
0.033	26	21.5	14	0.8	22.5	DS333 ✳ 3D22 ■●□□□⊙■ R
0.039	26	21.5	14	0.8	22.5	DS393 ✳ 3D22 ■●□□□⊙■ R

2500VDC

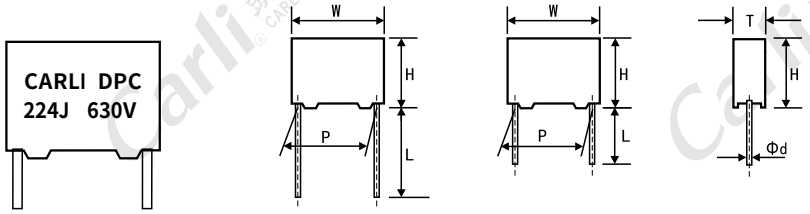
CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0012	18	11	7	0.8	15	DS122 ✳ 3E15 ■●□□□⊙■ R
0.0015	18	11	7	0.8	15	DS152 ✳ 3E15 ■●□□□⊙■ R
0.0018	18	11	7	0.8	15	DS182 ✳ 3E15 ■●□□□⊙■ R
0.0022	18	12	8	0.8	15	DS222 ✳ 3E15 ■●□□□⊙■ R
0.0027	18	12	8	0.8	15	DS272 ✳ 3E15 ■●□□□⊙■ R
0.0033	18	13.5	9.5	0.8	15	DS332 ✳ 3E15 ■●□□□⊙■ R
0.0039	18	13.5	9.5	0.8	15	DS392 ✳ 3E15 ■●□□□⊙■ R
0.0047	18	14.5	10.5	0.8	15	DS472 ✳ 3E15 ■●□□□⊙■ R
0.0056	18	17	10.5	0.8	15	DS562 ✳ 3E15 ■●□□□⊙■ R
0.0068	18	17	10.5	0.8	15	DS682 ✳ 3E15 ■●□□□⊙■ R
0.0082	18	18.5	13	0.8	15	DS822 ✳ 3E15 ■●□□□⊙■ R
0.01	18	18.5	13	0.8	15	DS103 ✳ 3E15 ■●□□□⊙■ R
0.012	26	17	10.5	0.8	22.5	DS123 ✳ 3E22 ■●□□□⊙■ R
0.015	26	19	12	0.8	22.5	DS153 ✳ 3E22 ■●□□□⊙■ R
0.018	26	19	12	0.8	22.5	DS183 ✳ 3E22 ■●□□□⊙■ R
0.022	26	20	13	0.8	22.5	DS223 ✳ 3E22 ■●□□□⊙■ R
0.027	26	21.5	14	0.8	22.5	DS273 ✳ 3E22 ■●□□□⊙■ R

备注：

1. “ ✳ ” 表示容量误差。
2. "■"表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4. "□□□"表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6. "R"=ROHS符合型;
   "H"=Halogen-Free无鹵型.
7. "# "当额定电压为1250Vdc时 ,第7～8位是3V

1. "✳"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ：“ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”，“ 200 ”，“ 035 ”……
5. "⊙"=Lead Length Tolerance Code ：“ ±0.3 ”，“ ±0.5，“ ±1 ”……
6. "R"=ROHS compliant.
   "H"=Halogen-Free compliant.
7. "# "when the rated voltage is 1250Vdc ,the digit 7~8 is 3V .

高压串联金属化聚丙烯膜电容器（盒装型）
High Voltage Series Metallized Polypropylene Film Capacitor (Box-Type)



L-type H-type

特点

- 金属化聚丙烯膜，串联结构
- 高频损耗小
- 内部温升低
- 塑胶外壳，阻燃环氧树脂填充

典型应用

- 广泛用於高频，高压, 直流，交流和脉冲迴路中
- 电视机和显示器S-校正电路

Features

- Metallized polypropylene film , non-inductive series wound construction
- Low loss at high frequency
- Small inherent temperature rise
- Plastic case ,Flame retardent epoxy resin sealing

Applications

- Widely used in high frequency ,high voltage ,DC ,AC and pulse circuits
- S-correction circuits in TV sets and monitors

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别/Climatic Category	40/105/56				
额定温度/Rated Temperature	85℃				
工作温度范围 /Operating Temperature Range	-40℃ ~+105℃. (+85℃~+105℃:derating factor 1.25%per℃ for UR(dc)				
额定电压/Rated voltage	630Vdc,800Vdc,1000Vdc,1200Vdc,1600Vdc,2000Vdc,2500Vdc				
容量范围/Capacitance range	0.001μF~0.33μF				
容差/Capacitance tolerance	±5% (J),±10% (K)				
耐电压/Voltage Proof	1.4 UR , 2s				
损失角/Dissapation factor	≤0.1% (1KHz at 20~25℃)				
绝缘阻抗/Insulation Resistance	≥50 000MΩ,C_R≤0.33μF ≥15 000 s,C_R > 0.33μF , (at 100VDC, 1min ,20~25℃,50%~55%RH)				
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt): 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.	U_R(V)	dV/dt(V/μs)			
		P=10	P=15.0	P=22.5	P=27.5
	630/800	1200	900	400	200
	1000/1200	2200	2000	800	400
	1600	--	4500	1800	900
	2000	--	9500	4500	--
	2500	--	10000	5000	--

外形尺寸 Dimensions(mm)

630VDC						
CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.001	13	9	4	0.6	10	DC102 ✳ 2JC1 ■●□□□⊙■ R
0.0012	13	9	4	0.6	10	DC122 ✳ 2JC1 ■●□□□⊙■ R
0.0015	13	9	4	0.6	10	DC152 ✳ 2JC1 ■●□□□⊙■ R
0.0018	13	9	4	0.6	10	DC182 ✳ 2JC1 ■●□□□⊙■ R
0.0022	13	9	4	0.6	10	DC222 ✳ 2JC1 ■●□□□⊙■ R
0.0027	13	9	4	0.6	10	DC272 ✳ 2JC1 ■●□□□⊙■ R
0.0033	13	9	4	0.6	10	DC332 ✳ 2JC1 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DC392 ✳ 2JC2 ■●□□□⊙■ R
0.0047	13	11	5	0.6	10	DC472 ✳ 2JC2 ■●□□□⊙■ R
0.0056	13	11	5	0.6	10	DC562 ✳ 2JC2 ■●□□□⊙■ R
0.0068	13	11	5	0.6	10	DC682 ✳ 2JC2 ■●□□□⊙■ R
0.0082	13	11	5	0.6	10	DC822 ✳ 2JC2 ■●□□□⊙■ R
0.01	13	12	6	0.6	10	DC103 ✳ 2JC3 ■●□□□⊙■ R
0.012	13	12	6	0.6	10	DC123 ✳ 2JC3 ■●□□□⊙■ R
0.015	13	12.5	7	0.6	10	DC153 ✳ 2JC4 ■●□□□⊙■ R
0.018	13	12.5	7	0.6	10	DC183 ✳ 2JC4 ■●□□□⊙■ R
0.022	18	11	5	0.8	15	DC223 ✳ 2JD1 ■●□□□⊙■ R
0.027	18	11	5	0.8	15	DC273 ✳ 2JD1 ■●□□□⊙■ R
0.033	18	11	5	0.8	15	DC333 ✳ 2JD1 ■●□□□⊙■ R
0.039	18	12	6	0.8	15	DC393 ✳ 2JD2 ■●□□□⊙■ R
0.047	18	12	6	0.8	15	DC473 ✳ 2JD2 ■●□□□⊙■ R
0.056	18	13	6.5	0.8	15	DC563 ✳ 2JD25 ●□□□⊙■ R
0.068	18	13.5	7.5	0.8	15	DC683 ✳ 2JD3 ■●□□□⊙■ R
0.082	18	14.5	8.5	0.8	15	DC823 ✳ 2JD4 ■●□□□⊙■ R
0.1	18	17	8.5	0.8	15	DC104 ✳ 2JD42 ●□□□⊙■ R
0.12	18	16	10	0.8	15	DC124 ✳ 2JD5 ■●□□□⊙■ R
0.15	18	18.5	11	0.8	15	DC154 ✳ 2JD6 ■●□□□⊙■ R
0.18	18	18.5	11	0.8	15	DC184 ✳ 2JD6 ■●□□□⊙■ R
0.22	26.5	17	8.5	0.8	22.5	DC224 ✳ 2JE3 ■●□□□⊙■ R
0.27	26.5	19	10	0.8	22.5	DC274 ✳ 2JE4 ■●□□□⊙■ R
0.33	26	20	11	0.8	22.5	DC334 ✳ 2JE5 ■●□□□⊙■ R

800VDC						
CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.001	13	9	4	0.6	10	DC102 ✳ 2KC1 ■●□□□⊙■ R
0.0012	13	9	4	0.6	10	DC122 ✳ 2KC1 ■●□□□⊙■ R
0.0015	13	9	4	0.6	10	DC152 ✳ 2KC1 ■●□□□⊙■ R
0.0018	13	9	4	0.6	10	DC182 ✳ 2KC1 ■●□□□⊙■ R
0.0022	13	9	4	0.6	10	DC222 ✳ 2KC1 ■●□□□⊙■ R
0.0027	13	9	4	0.6	10	DC272 ✳ 2KC1 ■●□□□⊙■ R
0.0033	13	9	4	0.6	10	DC332 ✳ 2KC1 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DC392 ✳ 2KC2 ■●□□□⊙■ R
0.0047	13	11	5	0.6	10	DC472 ✳ 2KC2 ■●□□□⊙■ R
0.0056	13	11	5	0.6	10	DC562 ✳ 2KC2 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DC682 ✳ 2KC3 ■●□□□⊙■ R
0.0082	13	12	6	0.6	10	DC822 ✳ 2KC3 ■●□□□⊙■ R
0.01	13	12.5	7	0.6	10	DC103 ✳ 2KC4 ■●□□□⊙■ R
0.012	18	11	5	0.8	15	DC123 ✳ 2KD1 ■●□□□⊙■ R
0.015	18	11	5	0.8	15	DC153 ✳ 2KD1 ■●□□□⊙■ R
0.018	18	11	5	0.8	15	DC183 ✳ 2KD1 ■●□□□⊙■ R
0.022	18	11	5	0.8	15	DC223 ✳ 2KD1 ■●□□□⊙■ R
0.027	18	12	6	0.8	15	DC273 ✳ 2KD2 ■●□□□⊙■ R
0.033	18	13	6.5	0.8	15	DC333 ✳ 2KD25 ●□□□⊙■ R
0.039	18	13.5	7.5	0.8	15	DC393 ✳ 2KD3 ■●□□□⊙■ R
0.047	18	13.5	7.5	0.8	15	DC473 ✳ 2KD3 ■●□□□⊙■ R
0.056	18	14.5	8.5	0.8	15	DC563 ✳ 2KD4 ■●□□□⊙■ R
0.068	18	14.5	8.5	0.8	15	DC683 ✳ 2KD4 ■●□□□⊙■ R
0.082	18	16	10	0.8	15	DC823 ✳ 2KD5 ■●□□□⊙■ R
0.1	18	18.5	11	0.8	15	DC104 ✳ 2KD6 ■●□□□⊙■ R
0.12	18	18.5	11	0.8	15	DC124 ✳ 2KD6 ■●□□□⊙■ R
0.15	26.5	17	8.5	0.8	22.5	DC154 ✳ 2KE3 ■●□□□⊙■ R
0.18	26.5	19	10	0.8	22.5	DC184 ✳ 2KE4 ■●□□□⊙■ R
0.22	26	20	11	0.8	22.5	DC224 ✳ 2KE5 ■●□□□⊙■ R
0.27	26	21.5	12	0.8	22.5	DC274 ✳ 2KE6 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	9	4	0.6	10	DC102 ✳ 3AC1 ■●□□□⊙■ R
0.0012	13	9	4	0.6	10	DC122 ✳ 3AC1 ■●□□□⊙■ R
0.0015	13	9	4	0.6	10	DC152 ✳ 3AC1 ■●□□□⊙■ R
0.0018	13	9	4	0.6	10	DC182 ✳ 3AC1 ■●□□□⊙■ R
0.0022	13	9	4	0.6	10	DC222 ✳ 3AC1 ■●□□□⊙■ R
0.0027	13	9	4	0.6	10	DC272 ✳ 3AC1 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DC332 ✳ 3AC2 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DC392 ✳ 3AC2 ■●□□□⊙■ R
0.0047	13	11	5	0.6	10	DC472 ✳ 3AC2 ■●□□□⊙■ R
0.0056	13	12	6	0.6	10	DC562 ✳ 3AC3 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DC682 ✳ 3AC3 ■●□□□⊙■ R
0.0082	13	12.5	7	0.6	10	DC822 ✳ 3AC4 ■●□□□⊙■ R
0.01	18	11	5	0.8	15	DC103 ✳ 3AD1 ■●□□□⊙■ R
0.012	18	11	5	0.8	15	DC123 ✳ 3AD1 ■●□□□⊙■ R
0.015	18	11	5	0.8	15	DC153 ✳ 3AD1 ■●□□□⊙■ R
0.018	18	12	6	0.8	15	DC183 ✳ 3AD2 ■●□□□⊙■ R
0.022	18	12	6	0.8	15	DC223 ✳ 3AD2 ■●□□□⊙■ R
0.027	18	13	6.5	0.8	15	DC273 ✳ 3AD25 ●□□□⊙■ R
0.033	18	13.5	7.5	0.8	15	DC333 ✳ 3AD3 ■●□□□⊙■ R
0.039	18	14.5	8.5	0.8	15	DC393 ✳ 3AD4 ■●□□□⊙■ R
0.047	18	14.5	8.5	0.8	15	DC473 ✳ 3AD4 ■●□□□⊙■ R
0.056	18	17	8.5	0.8	15	DC563 ✳ 3AD42 ●□□□⊙■ R
0.068	18	16	10	0.8	15	DC683 ✳ 3AD5 ■●□□□⊙■ R
0.082	18	18.5	11	0.8	15	DC823 ✳ 3AD6 ■●□□□⊙■ R
0.1	26.5	17	8.5	0.8	22.5	DC104 ✳ 3AE3 ■●□□□⊙■ R
0.12	26.5	17	8.5	0.8	22.5	DC124 ✳ 3AE3 ■●□□□⊙■ R
0.15	26.5	19	10	0.8	22.5	DC154 ✳ 3AE4 ■●□□□⊙■ R
0.18	26	20	11	0.8	22.5	DC184 ✳ 3AE5 ■●□□□⊙■ R
0.22	26	21.5	12	0.8	22.5	DC224 ✳ 3AE6 ■●□□□⊙■ R

1200VDC/1250VDC#

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	9	4	0.6	10	DC102 ✳ 3BC1 ■●□□□⊙■ R
0.0012	13	9	4	0.6	10	DC122 ✳ 3BC1 ■●□□□⊙■ R
0.0015	13	9	4	0.6	10	DC152 ✳ 3BC1 ■●□□□⊙■ R
0.0018	13	9	4	0.6	10	DC182 ✳ 3BC1 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DC222 ✳ 3BC2 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DC272 ✳ 3BC2 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DC332 ✳ 3BC3 ■●□□□⊙■ R
0.0039	13	12	6	0.6	10	DC392 ✳ 3BC3 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DC472 ✳ 3BC3 ■●□□□⊙■ R
0.0056	13	12.5	7	0.6	10	DC562 ✳ 3BC4 ■●□□□⊙■ R
0.0068	18	11	5	0.8	15	DC682 ✳ 3BD1 ■●□□□⊙■ R
0.0082	18	11	5	0.8	15	DC822 ✳ 3BD1 ■●□□□⊙■ R
0.01	18	11	5	0.8	15	DC103 ✳ 3BD1 ■●□□□⊙■ R
0.012	18	11	5	0.8	15	DC123 ✳ 3BD1 ■●□□□⊙■ R
0.015	18	12	6	0.8	15	DC153 ✳ 3BD2 ■●□□□⊙■ R
0.018	18	13	6.5	0.8	15	DC183 ✳ 3BD25 ●□□□⊙■ R
0.022	18	13.5	7.5	0.8	15	DC223 ✳ 3BD3 ■●□□□⊙■ R
0.027	18	13.5	7.5	0.8	15	DC273 ✳ 3BD3 ■●□□□⊙■ R
0.033	18	14.5	8.5	0.8	15	DC333 ✳ 3BD4 ■●□□□⊙■ R
0.039	18	17	8.5	0.8	15	DC393 ✳ 3BD42 ●□□□⊙■ R
0.047	18	16	10	0.8	15	DC473 ✳ 3BD5 ■●□□□⊙■ R
0.056	18	18.5	11	0.8	15	DC563 ✳ 3BD6 ■●□□□⊙■ R
0.068	26.5	17	8.5	0.8	22.5	DC683 ✳ 3BE3 ■●□□□⊙■ R
0.082	26.5	17	8.5	0.8	22.5	DC823 ✳ 3BE3 ■●□□□⊙■ R
0.1	26.5	19	10	0.8	22.5	DC104 ✳ 3BE4 ■●□□□⊙■ R
0.12	26	20	11	0.8	22.5	DC124 ✳ 3BE5 ■●□□□⊙■ R
0.15	26	21.5	12	0.8	22.5	DC154 ✳ 3BE6 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1600VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	11	5	0.6	10	DC102 ✳ 3CC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DC122 ✳ 3CC2 ■●□□□⊙■ R
0.0015	13	12	6	0.6	10	DC152 ✳ 3CC3 ■●□□□⊙■ R
0.0018	13	12	6	0.6	10	DC182 ✳ 3CC3 ■●□□□⊙■ R
0.0022	13	12.5	7	0.6	10	DC222 ✳ 3CC4 ■●□□□⊙■ R
0.0027	13	12.5	7	0.6	10	DC272 ✳ 3CC4 ■●□□□⊙■ R
0.0033	13	16	8	0.6	10	DC332 ✳ 3CC5 ■●□□□⊙■ R
0.0039	18	11	5	0.8	15	DC392 ✳ 3CD1 ■●□□□⊙■ R
0.0047	18	11	5	0.8	15	DC472 ✳ 3CD1 ■●□□□⊙■ R
0.0056	18	12	6	0.8	15	DC562 ✳ 3CD2 ■●□□□⊙■ R
0.0068	18	12	6	0.8	15	DC682 ✳ 3CD2 ■●□□□⊙■ R
0.0082	18	12	6	0.8	15	DC822 ✳ 3CD25 ●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DC103 ✳ 3CD3 ■●□□□⊙■ R
0.012	18	14.5	8.5	0.8	15	DC123 ✳ 3CD4 ■●□□□⊙■ R
0.015	18	14.5	8.5	0.8	15	DC153 ✳ 3CD4 ■●□□□⊙■ R
0.018	18	17	8.5	0.8	15	DC183 ✳ 3CD42 ●□□□⊙■ R
0.022	18	16	10	0.8	15	DC223 ✳ 3CD5 ■●□□□⊙■ R
0.027	18	18.5	11	0.8	15	DC273 ✳ 3CD6 ■●□□□⊙■ R
0.033	26.5	17	8.5	0.8	22.5	DC333 ✳ 3CE3 ■●□□□⊙■ R
0.039	26.5	19	10	0.8	22.5	DC393 ✳ 3CE4 ■●□□□⊙■ R
0.047	26.5	19	10	0.8	22.5	DC473 ✳ 3CE4 ■●□□□⊙■ R
0.056	26	20	11	0.8	22.5	DC563 ✳ 3CE5 ■●□□□⊙■ R
0.068	26	21.5	12	0.8	22.5	DC683 ✳ 3CE6 ■●□□□⊙■ R
0.082	26	25	16.5	0.8	22.5	DC823 ✳ 3CE8 ■●□□□⊙■ R
0.1	26	25	16.5	0.8	22.5	DC104 ✳ 3CE8 ■●□□□⊙■ R

2000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0012	18	11	5	0.8	15	DC122 ✳ 3DD1 ■●□□□⊙■ R
0.0015	18	11	5	0.8	15	DC152 ✳ 3DD1 ■●□□□⊙■ R
0.0018	18	11	5	0.8	15	DC182 ✳ 3DD1 ■●□□□⊙■ R
0.0022	18	11	5	0.8	15	DC222 ✳ 3DD1 ■●□□□⊙■ R
0.0027	18	11	5	0.8	15	DC272 ✳ 3DD1 ■●□□□⊙■ R
0.0033	18	12	6	0.8	15	DC332 ✳ 3DD2 ■●□□□⊙■ R
0.0039	18	12	6	0.8	15	DC392 ✳ 3DD2 ■●□□□⊙■ R
0.0047	18	13	6.5	0.8	15	DC472 ✳ 3DD25 ●□□□⊙■ R
0.0056	18	13.5	7.5	0.8	15	DC562 ✳ 3DD3 ■●□□□⊙■ R
0.0068	18	14.5	8.5	0.8	15	DC682 ✳ 3DD4 ■●□□□⊙■ R
0.0082	18	17	8.5	0.8	15	DC822 ✳ 3DD42 ●□□□⊙■ R
0.01	18	16	10	0.8	15	DC103 ✳ 3DD5 ■●□□□⊙■ R
0.012	18	18.5	11	0.8	15	DC123 ✳ 3DD6 ■●□□□⊙■ R
0.015	18	18.5	11	0.8	15	DC153 ✳ 3DD6 ■●□□□⊙■ R
0.018	26.5	17	8.5	0.8	22.5	DC183 ✳ 3DE3 ■●□□□⊙■ R
0.022	26.5	19	10	0.8	22.5	DC223 ✳ 3DE4 ■●□□□⊙■ R
0.027	26	20	11	0.8	22.5	DC273 ✳ 3DE5 ■●□□□⊙■ R
0.033	26	21.5	12	0.8	22.5	DC333 ✳ 3DE6 ■●□□□⊙■ R
0.039	26	21.5	12	0.8	22.5	DC393 ✳ 3DE6 ■●□□□⊙■ R

2500VDC

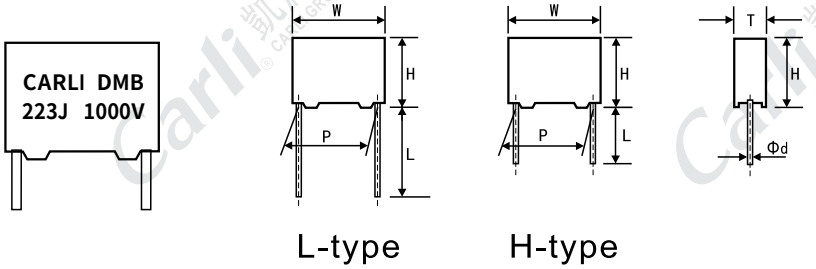
CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	18	11	5	0.8	15	DC122 ✳ 3ED1 ■●□□□⊙■ R
0.0015	18	11	5	0.8	15	DC152 ✳ 3ED1 ■●□□□⊙■ R
0.0018	18	11	5	0.8	15	DC182 ✳ 3ED1 ■●□□□⊙■ R
0.0022	18	12	6	0.8	15	DC222 ✳ 3ED2 ■●□□□⊙■ R
0.0027	18	12	6	0.8	15	DC272 ✳ 3ED25 ●□□□⊙■ R
0.0033	18	13.5	7.5	0.8	15	DC332 ✳ 3ED3 ■●□□□⊙■ R
0.0039	18	13.5	7.5	0.8	15	DC392 ✳ 3ED3 ■●□□□⊙■ R
0.0047	18	14.5	8.5	0.8	15	DC472 ✳ 3ED4 ■●□□□⊙■ R
0.0056	18	17	8.5	0.8	15	DC562 ✳ 3ED42 ●□□□⊙■ R
0.0068	18	17	8.5	0.8	15	DC682 ✳ 3ED42 ●□□□⊙■ R
0.0082	18	18.5	11	0.8	15	DC822 ✳ 3ED6 ■●□□□⊙■ R
0.01	18	18.5	11	0.8	15	DC103 ✳ 3ED6 ■●□□□⊙■ R
0.012	26.5	17	8.5	0.8	22.5	DC123 ✳ 3EE3 ■●□□□⊙■ R
0.015	26.5	19	10	0.8	22.5	DC153 ✳ 3EE4 ■●□□□⊙■ R
0.018	26.5	19	10	0.8	22.5	DC183 ✳ 3EE4 ■●□□□⊙■ R
0.022	26	20	11	0.8	22.5	DC223 ✳ 3EE5 ■●□□□⊙■ R
0.027	26	21.5	12	0.8	22.5	DC273 ✳ 3EE6 ■●□□□⊙■ R

备注：

1. “ ✳ ” 表示容量误差。
2. "■"表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4. "□□□"表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6. "R"=ROHS符合型;
   "H"=Halogen-Free无鹵型.
7. "# "当额定电压为1250Vdc时 ,第7～8位是3V。

1. "✳"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ：“ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”， “ 200 ”， “ 035 ”……
5. "⊙"=Lead Length Tolerance Code ：“ ±0.3 ”， “ ±0.5， “ ±1 ”……
6. "R"=ROHS compliant.
   "H"=Halogen-Free compliant.
7. "# "when the rated voltage is 1250Vdc ,the digit 7~8 is 3V .

双面金属化聚丙烯膜电容器（串联盒装型）
Double Sided Metallized Polypropylene Film Capacitor (Series &Box-Type)



L-type H-type

特点

- 双面金属化聚丙烯膜，串联无感式捲绕结构
- 高频损耗小
- 内部温升低
- 塑胶外壳，阻燃环氧树脂填充

典型应用

- 广泛应用於中高频、交流和直流电路中
- 具有高压、高脉冲、高储能、充放电快速性能
- 高dv/dt、高频纹波吸收和SCR整流电路
- 尖峰电压钳位和保护等场合使用

Features

- Double sided metallized polypropylene film , series non-wound construction
- Low loss at high frequency
- Small inherent temperature rise
- Plastic case ,Flame retardent epoxy resin sealing

Applications

- Widely used in medium and high frequency AC and DC circuits
- High voltage,high pulse,high energy storage,fast charge and discharge performance
- High dv/dt value,high frequency filter absorption performance, and can be use in SCR rectifier circuit
- Spike voltage clamping and protection

技术要求specifications

引用标准/Reference Standard		GB/T 10190 (IEC 60384-16)					
气候类别/Climatic Category		40/85/56					
额定温度/Rated Temperature		85℃					
工作温度范围 /Operating Temperature Range		-40℃~+85℃					
额定电压/Rated voltage	(vdc at+85℃)	630V	800V	1000V	1200V	1600V	2000V
额定电压/Rated voltage	(vac at+85℃)	250V~	330V~	400V~	450V~	500V~	550V~
容量范围/Capacitance range		0.047μF~0.47μF					
容差/Capacitance tolerance		±5% (J),±10% (K)					
耐电压/Voltage Proof	(vdc at+25℃)	1.4 *R , V(DC),2s(between terminals)					
耐电压/Voltage Proof	(vac at+25℃)	1.4 *R , V(AC),2s(between terminals)					
损失角/Dissapation factor		≤0.1% (1KHz at 20~25℃)					
绝缘阻抗/Insulation Resistance		≥50 000MΩ,C_R≤0.33μF ≥15 000 s,C_R > 0.33μF ,(at 100VDC, 60s 20~25℃,50%~55%RH)					

最大脉冲爬升速率Maximum Pulse Rise Time(dv/dt): 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.	U_R(V)	dv/dt(V/μs)			
		P=10	P=15	P=22.5	P=27.5
	630V/250V~	3000	2000	500	450
	800V/300V~	3500	2500	720	660
	1000V/400V~	4100	3000	1020	930
	1200V/450V~	5000	3500	1370	1250
	1600V/500V~	5900	4200	2400	1490
	2500V/550V	7500	5000	3400	3100

备注：如客户有特别要求，可按客户要求生产。
Note:If the customer has special requirements,it can be produced according to customer requirements.

外形尺寸 Dimensions(mm)

630VDC(250VAC)

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 2JC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 2JC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 2JC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 2JC2 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 2JC2 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 2JC2 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✳ 2JC2 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DB392 ✳ 2JC2 ■●□□□⊙■ R
0.0047	13	11	5	0.6	10	DB472 ✳ 2JC2 ■●□□□⊙■ R
0.0056	13	11	5	0.6	10	DB562 ✳ 2JC2 ■●□□□⊙■ R
0.0068	13	11	5	0.6	10	DB682 ✳ 2JC2 ■●□□□⊙■ R
0.0082	13	11	5	0.6	10	DB822 ✳ 2JC2 ■●□□□⊙■ R
0.0100	13	11	5	0.6	10	DB103 ✳ 2JC2 ■●□□□⊙■ R
0.0150	13	12	6	0.6	10	DB153 ✳ 2JC3 ■●□□□⊙■ R
0.0120	18	11	5	0.8	15	DB123 ✳ 2JD1 ■●□□□⊙■ R
0.0150	18	11	5	0.8	15	DB153 ✳ 2JD1 ■●□□□⊙■ R
0.0180	18	11	5	0.8	15	DB183 ✳ 2JD1 ■●□□□⊙■ R
0.0220	18	11	5	0.8	15	DB223 ✳ 2JD1 ■●□□□⊙■ R
0.0270	18	11	5	0.8	15	DB273 ✳ 2JD1 ■●□□□⊙■ R
0.0330	18	11	5	0.8	15	DB333 ✳ 2JD1 ■●□□□⊙■ R
0.0390	18	12	6	0.8	15	DB393 ✳ 2JD2 ■●□□□⊙■ R
0.0470	18	13.5	7.5	0.8	15	DB473 ✳ 2JD3 ■●□□□⊙■ R
0.0560	18	13.5	7.5	0.8	15	DB563 ✳ 2JD3 ■●□□□⊙■ R
0.0680	18	13.5	7.5	0.8	15	DB683 ✳ 2JD3 ■●□□□⊙■ R
0.0820	18	14.5	8.5	0.8	15	DB823 ✳ 2JD4 ■●□□□⊙■ R
0.100	18	16	10	0.8	15	DB104 ✳ 2JD5 ■●□□□⊙■ R
0.1200	18	16	10	0.8	15	DB124 ✳ 2JD5 ■●□□□⊙■ R
0.1500	18	18.5	11	0.8	15	DB154 ✳ 2JD6 ■●□□□⊙■ R
0.2200	18	22	13	0.8	15	DB224 ✳ 2JD7 ■●□□□⊙■ R
0.1500	26.5	17	8.5	0.8	22.5	DB154 ✳ 2JE3 ■●□□□⊙■ R
0.2200	26.5	17	8.5	0.8	22.5	DB224 ✳ 2JE3 ■●□□□⊙■ R
0.3300	26	20	11	0.8	22.5	DB334 ✳ 2JE5 ■●□□□⊙■ R
0.1000	30	17.5	10	0.8	27.5	DB104 ✳ 2JF0 ■●□□□⊙■ R
0.2200	32	20	11	0.8	27.5	DB224 ✳ 2JF1 ■●□□□⊙■ R
0.3300	32	22	13	0.8	27.5	DB334 ✳ 2JF2 ■●□□□⊙■ R
0.4700	32	22	13	0.8	27.5	DB474 ✳ 2JF2 ■●□□□⊙■ R
0.5600	32	25	15	0.8	27.5	DB564 ✳ 2JF3 ■●□□□⊙■ R
0.6800	32	22	13	0.8	27.5	DB684 ✳ 2JF4 ■●□□□⊙■ R

800VDC(330VAC)

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 2KC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 2KC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 2KC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 2KC2 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 2KC2 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 2KC2 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✳ 2KC2 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DB392 ✳ 2KC2 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DB472 ✳ 2KC3 ■●□□□⊙■ R
0.0056	13	12	6	0.6	10	DB562 ✳ 2KC3 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DB682 ✳ 2KC3 ■●□□□⊙■ R
0.0082	13	12	6	0.6	10	DB822 ✳ 2KC3 ■●□□□⊙■ R
0.0100	13	12	6	0.6	10	DB103 ✳ 2KC3 ■●□□□⊙■ R
0.0100	18	11	5	0.8	15	DB103 ✳ 2KD1 ■●□□□⊙■ R
0.0120	18	11	5	0.8	15	DB123 ✳ 2KD1 ■●□□□⊙■ R
0.0150	18	11	5	0.8	15	DB153 ✳ 2KD1 ■●□□□⊙■ R
0.0180	18	12	6	0.8	15	DB183 ✳ 2KD2 ■●□□□⊙■ R
0.0220	18	12	6	0.8	15	DB223 ✳ 2KD2 ■●□□□⊙■ R
0.0270	18	12	6	0.8	15	DB273 ✳ 2KD2 ■●□□□⊙■ R
0.0330	18	13.5	7.5	0.8	15	DB333 ✳ 2KD3 ■●□□□⊙■ R
0.0390	18	13.5	7.5	0.8	15	DB393 ✳ 2KD3 ■●□□□⊙■ R
0.0470	18	13.5	7.5	0.8	15	DB473 ✳ 2KD3 ■●□□□⊙■ R
0.0560	18	13.5	7.5	0.8	15	DB563 ✳ 2KD3 ■●□□□⊙■ R
0.0680	18	14.5	8.5	0.8	15	DB683 ✳ 2KD4 ■●□□□⊙■ R
0.0820	18	16	10	0.8	15	DB823 ✳ 2KD5 ■●□□□⊙■ R
0.1000	18	18.5	11	0.8	15	DB104 ✳ 2KD6 ■●□□□⊙■ R
0.1200	18	18.5	11	0.8	15	DB124 ✳ 2KD6 ■●□□□⊙■ R
0.0820	26.5	17	8.5	0.8	22.5	DB823 ✳ 2KE3 ■●□□□⊙■ R
0.1000	26.5	17	7	0.8	22.5	DB104 ✳ 2KE2 ■●□□□⊙■ R
0.1200	26.5	17	8.5	0.8	22.5	DB124 ✳ 2KE3 ■●□□□⊙■ R
0.1500	26.5	17	8.5	0.8	22.5	DB154 ✳ 2KE3 ■●□□□⊙■ R
0.2200	26	20	11	0.8	22.5	DB224 ✳ 2KE5 ■●□□□⊙■ R
0.3300	26	21.5	12	0.8	22.5	DB334 ✳ 2KE6 ■●□□□⊙■ R
0.2200	30	17.5	10	0.8	27.5	DB224 ✳ 2KF0 ■●□□□⊙■ R
0.3300	32	22	13	0.8	27.5	DB334 ✳ 2KF2 ■●□□□⊙■ R
0.4700	32	25	15	0.8	27.5	DB474 ✳ 2KF3 ■●□□□⊙■ R
0.5600	32	30	18	0.8	27.5	DB564 ✳ 2KF4 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1000VDC(400VAC)

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 3AC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 3AC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 3AC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 3AC2 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 3AC2 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 3AC2 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✳ 3AC2 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DB392 ✳ 3AC2 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DB472 ✳ 3AC3 ■●□□□⊙■ R
0.0056	13	12	6	0.6	10	DB562 ✳ 3AC3 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DB682 ✳ 3AC3 ■●□□□⊙■ R
0.0082	13	12	6	0.6	10	DB822 ✳ 3AC3 ■●□□□⊙■ R
0.0100	18	11	5	0.8	15	DB103 ✳ 3AD1 ■●□□□⊙■ R
0.0120	18	11	5	0.8	15	DB123 ✳ 3AD1 ■●□□□⊙■ R
0.0150	18	11	5	0.8	15	DB153 ✳ 3AD1 ■●□□□⊙■ R
0.0180	18	12	6	0.8	15	DB183 ✳ 3AD2 ■●□□□⊙■ R
0.0220	18	12	6	0.8	15	DB223 ✳ 3AD2 ■●□□□⊙■ R
0.0270	18	13	6.5	0.8	15	DB273 ✳ 3AD25 ●□□□⊙■ R
0.0330	18	13	6.5	0.8	15	DB333 ✳ 3AD25 ●□□□⊙■ R
0.0390	18	13.5	7.5	0.8	15	DB393 ✳ 3AD3 ■●□□□⊙■ R
0.0470	18	14.5	8.5	0.8	15	DB473 ✳ 3AD4 ■●□□□⊙■ R
0.0560	18	14.5	8.5	0.8	15	DB563 ✳ 3AD4 ■●□□□⊙■ R
0.0680	18	16	10	0.8	15	DB683 ✳ 3AD5 ■●□□□⊙■ R
0.0820	18	18.5	11	0.8	15	DB823 ✳ 3AD6 ■●□□□⊙■ R
0.1000	18	18.5	11	0.8	15	DB104 ✳ 3AD6 ■●□□□⊙■ R
0.0680	26.5	17	7	0.8	22.5	DB683 ✳ 3AE2 ■●□□□⊙■ R
0.0820	26.5	17	7	0.8	22.5	DB823 ✳ 3AE2 ■●□□□⊙■ R
0.1000	26.5	17	8.5	0.8	22.5	DB104 ✳ 3AE3 ■●□□□⊙■ R
0.1200	26.5	17	8.5	0.8	22.5	DB124 ✳ 3AE3 ■●□□□⊙■ R
0.1500	26.5	19	10	0.8	22.5	DB154 ✳ 3AE4 ■●□□□⊙■ R
0.2200	26	21.5	12	0.8	22.5	DB224 ✳ 3AE6 ■●□□□⊙■ R
0.2200	32	22	13	0.8	27.5	DB224 ✳ 3AF2 ■●□□□⊙■ R
0.3300	32	25	15	0.8	27.5	DB334 ✳ 3AF3 ■●□□□⊙■ R
0.4700	32	30	18	0.8	27.5	DB474 ✳ 3AF4 ■●□□□⊙■ R

1200VDC(450VAC)

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 3BC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 3BC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 3BC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 3BC2 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 3BC2 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 3BC2 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DB332 ✳ 3BC3 ■●□□□⊙■ R
0.0039	13	12	6	0.6	10	DB392 ✳ 3BC3 ■●□□□⊙■ R
0.0047	13	12.5	7	0.6	10	DB472 ✳ 3BC4 ■●□□□⊙■ R
0.0056	13	12.5	7	0.6	10	DB562 ✳ 3BC4 ■●□□□⊙■ R
0.0068	18	11	5	0.8	15	DB682 ✳ 3BD1 ■●□□□⊙■ R
0.0082	18	11	5	0.8	15	DB822 ✳ 3BD1 ■●□□□⊙■ R
0.0100	18	11	5	0.8	15	DB103 ✳ 3BD1 ■●□□□⊙■ R
0.0120	18	11	5	0.8	15	DB123 ✳ 3BD1 ■●□□□⊙■ R
0.0150	18	13	6.5	0.8	15	DB153 ✳ 3BD25 ●□□□⊙■ R
0.0180	18	13	6.5	0.8	15	DB183 ✳ 3BD25 ●□□□⊙■ R
0.0220	18	13.5	7.5	0.8	15	DB223 ✳ 3BD3 ■●□□□⊙■ R
0.0270	18	13.5	7.5	0.8	15	DB273 ✳ 3BD3 ■●□□□⊙■ R
0.0330	18	14.5	8.5	0.8	15	DB333 ✳ 3BD4 ■●□□□⊙■ R
0.0390	18	16	10	0.8	15	DB393 ✳ 3BD5 ■●□□□⊙■ R
0.0470	18	18.5	11	0.8	15	DB473 ✳ 3BD6 ■●□□□⊙■ R
0.0560	26.5	17	8.5	0.8	22.5	DB563 ✳ 3BE3 ■●□□□⊙■ R
0.0680	26.5	17	8.5	0.8	22.5	DB683 ✳ 3BE3 ■●□□□⊙■ R
0.0820	26.5	19	10	0.8	22.5	DB823 ✳ 3BE4 ■●□□□⊙■ R
0.1000	26	20	11	0.8	22.5	DB104 ✳ 3BE5 ■●□□□⊙■ R
0.1200	26	21.5	12	0.8	22.5	DB124 ✳ 3BE6 ■●□□□⊙■ R
0.1000	30	17.5	10	0.8	27.5	DB104 ✳ 3BF0 ■●□□□⊙■ R
0.1500	32	22	13	0.8	27.5	DB154 ✳ 3BF2 ■●□□□⊙■ R
0.2200	32	25	15	0.8	27.5	DB224 ✳ 3BF3 ■●□□□⊙■ R
0.3300	32	30	18	0.8	27.5	DB334 ✳ 3BF4 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1600VDC(500VAC)

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 3CC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 3CC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 3CC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 3CC2 ■●□□□⊙■ R
0.0022	13	12	6	0.6	10	DB222 ✳ 3CC3 ■●□□□⊙■ R
0.0027	13	12	6	0.6	10	DB272 ✳ 3CC3 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DB332 ✳ 3CC3 ■●□□□⊙■ R
0.0039	18	11	5	0.8	15	DB392 ✳ 3CD1 ■●□□□⊙■ R
0.0047	18	11	5	0.8	15	DB472 ✳ 3CD1 ■●□□□⊙■ R
0.0056	18	12	6	0.8	15	DB562 ✳ 3CD2 ■●□□□⊙■ R
0.0068	18	13	6.5	0.8	15	DB682 ✳ 3CD25 ●□□□⊙■ R
0.0082	18	13.5	7.5	0.8	15	DB822 ✳ 3CD3 ■●□□□⊙■ R
0.0100	18	13.5	7.5	0.8	15	DB103 ✳ 3CD3 ■●□□□⊙■ R
0.0120	18	13.5	7.5	0.8	15	DB123 ✳ 3CD3 ■●□□□⊙■ R
0.0150	18	13.5	7.5	0.8	15	DB153 ✳ 3CD3 ■●□□□⊙■ R
0.0180	18	13.5	7.5	0.8	15	DB183 ✳ 3CD3 ■●□□□⊙■ R
0.0220	18	13.5	7.5	0.8	15	DB223 ✳ 3CD3 ■●□□□⊙■ R
0.0270	18	14.5	8.5	0.8	15	DB273 ✳ 3CD4 ■●□□□⊙■ R
0.0330	18	16	10	0.8	15	DB333 ✳ 3CD5 ■●□□□⊙■ R
0.0470	18	18.5	11	0.8	15	DB473 ✳ 3CD6 ■●□□□⊙■ R
0.0270	26.5	17	7	0.8	22.5	DB273 ✳ 3CE2 ■●□□□⊙■ R
0.0330	26.5	17	8.5	0.8	22.5	DB333 ✳ 3CE3 ■●□□□⊙■ R
0.0390	26.5	17	8.5	0.8	22.5	DB393 ✳ 3CE3 ■●□□□⊙■ R
0.0470	26	19	10	0.8	22.5	DB473 ✳ 3CE4 ■●□□□⊙■ R
0.0560	26	20	11	0.8	22.5	DB563 ✳ 3CE5 ■●□□□⊙■ R
0.0680	26	21.5	12	0.8	22.5	DB683 ✳ 3CE6 ■●□□□⊙■ R
0.0680	32	20	11	0.8	27.5	DB683 ✳ 3CF1 ■●□□□⊙■ R
0.0820	32	22	13	0.8	27.5	DB823 ✳ 3CF2 ■●□□□⊙■ R
0.1000	32	25	15	0.8	27.5	DB104 ✳ 3CF3 ■●□□□⊙■ R
0.1500	32	30	18	0.8	27.5	DB154 ✳ 3CF4 ■●□□□⊙■ R

2500VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	18	11	5	0.8	15	DB102 ✳ 3ED1 ■●□□□⊙■ R
0.0012	18	11	5	0.8	15	DB122 ✳ 3ED1 ■●□□□⊙■ R
0.0015	18	12	6	0.8	15	DB152 ✳ 3ED2 ■●□□□⊙■ R
0.0018	18	12	6	0.8	15	DB182 ✳ 3ED2 ■●□□□⊙■ R
0.0022	18	13	6.5	0.8	15	DB222 ✳ 3ED25 ●□□□⊙■ R
0.0027	18	13.5	7.5	0.8	15	DB272 ✳ 3ED3 ■●□□□⊙■ R
0.0033	18	14.5	8.5	0.8	15	DB332 ✳ 3ED4 ■●□□□⊙■ R
0.0039	18	17	8.5	0.8	15	DB392 ✳ 3ED42 ●□□□⊙■ R
0.0047	18	16	10	0.8	15	DB472 ✳ 3ED5 ■●□□□⊙■ R
0.0056	18	18.5	11	0.8	15	DB562 ✳ 3ED6 ■●□□□⊙■ R
0.0068	18	18.5	11	0.8	15	DB682 ✳ 3ED6 ■●□□□⊙■ R
0.0082	26.5	17	8.5	0.8	22.5	DB822 ✳ 3EE3 ■●□□□⊙■ R
0.0100	26.5	19	10	0.8	22.5	DB103 ✳ 3EE4 ■●□□□⊙■ R
0.0120	26.5	19	10	0.8	22.5	DB123 ✳ 3EE4 ■●□□□⊙■ R
0.0150	26	20	11	0.8	22.5	DB153 ✳ 3EE5 ■●□□□⊙■ R

2000VDC(550VAC)

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0022	18	11	5	0.8	15	DB222 ✳ 3DD1 ■●□□□⊙■ R
0.0027	18	12	6	0.8	15	DB272 ✳ 3DD2 ■●□□□⊙■ R
0.0033	18	12	6	0.8	15	DB332 ✳ 3DD2 ■●□□□⊙■ R
0.0039	18	13	6.5	0.8	15	DB392 ✳ 3DD25 ●□□□⊙■ R
0.0047	18	13.5	7.5	0.8	15	DB472 ✳ 3DD3 ■●□□□⊙■ R
0.0056	18	13.5	7.5	0.8	15	DB562 ✳ 3DD3 ■●□□□⊙■ R
0.0068	18	14.8	8.5	0.8	15	DB682 ✳ 3DD4 ■●□□□⊙■ R
0.0082	18	17	8.5	0.8	15	DB822 ✳ 3DD42 ●□□□⊙■ R
0.0100	18	16	10	0.8	15	DB103 ✳ 3DD5 ■●□□□⊙■ R
0.0120	26.5	15	6	0.8	22.5	DB123 ✳ 3DE1 ■●□□□⊙■ R
0.0150	26.5	17	7	0.8	22.5	DB153 ✳ 3DE2 ■●□□□⊙■ R
0.0180	26.5	17	8.5	0.8	22.5	DB183 ✳ 3DE3 ■●□□□⊙■ R
0.0220	26.5	17	8.5	0.8	22.5	DB223 ✳ 3DE3 ■●□□□⊙■ R
0.0270	26.5	19	10	0.8	22.5	DB273 ✳ 3DE4 ■●□□□⊙■ R
0.0330	26	19	10	0.8	22.5	DB333 ✳ 3DE4 ■●□□□⊙■ R
0.0390	26	20	11	0.8	22.5	DB393 ✳ 3DE5 ■●□□□⊙■ R
0.0470	26	21.5	12	0.8	22.5	DB473 ✳ 3DE6 ■●□□□⊙■ R
0.0390	30	17.5	10	0.8	27.5	DB393 ✳ 3DF0 ■●□□□⊙■ R
0.0470	32	20	11	0.8	27.5	DB473 ✳ 3DF1 ■●□□□⊙■ R
0.0680	32	22	13	0.8	27.5	DB683 ✳ 3DF2 ■●□□□⊙■ R
0.0820	32	25	15	0.8	27.5	DB823 ✳ 3DF3 ■●□□□⊙■ R
0.1000	32	30	18	0.8	27.5	DB104 ✳ 3DF4 ■●□□□⊙■ R

2500VDC

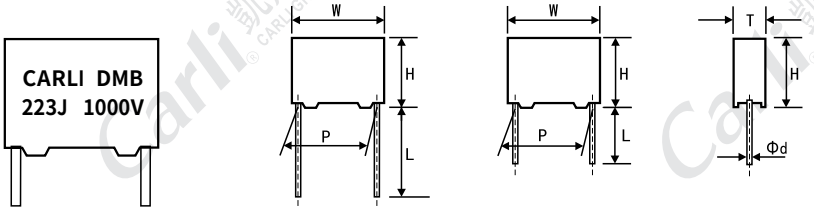
CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0180	32	20	11	0.8	27.5	DB102 ✳ 3ED1 ■●□□□⊙■ R
0.0220	32	22	13	0.8	27.5	DB122 ✳ 3ED1 ■●□□□⊙■ R
0.0330	32	25	15	0.8	27.5	DB152 ✳ 3ED2 ■●□□□⊙■ R
0.0470	32	28	18	0.8	27.5	DB473 ✳ 3EF4 ■●□□□⊙■ R

备注：

1. “ ✳ ” 表示容量误差。
2. "■"表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4. "□□□"表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6. "R"=ROHS符合型;
   "H"=Halogen-Free无鹵型.
7. "# "当额定电压为1250Vdc时 ,第7～8位是3V。

1. "✳"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ： “ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”， “ 200 ”， “ 035 ”……
5. "⊙"=Lead Length Tolerance Code ：“ ±0.3 ”， “ ±0.5， “ ±1 ”……
6. "R"=ROHS compliant.
   "H"=Halogen-Free compliant.
7. "# "when the rated voltage is 1250Vdc ,the digit 7~8 is 3V .

双面金属化聚丙烯膜电容器（串联盒装型）-耐高温
Double Sided Metallized Polypropylene Film Capacitor (Series &Box-Type)-High temperature resistance



L-type H-type

特点

- 双面金属化聚丙烯膜，串联无感式捲绕结构
- 高频损耗小
- 内部温升低
- 塑胶外壳，阻燃环氧树脂填充
- 耐高温125℃

典型应用

- 广泛应用於中高频、交流和直流电路中
- 具有高压、高脉冲、高储能、充放电快速性能
- 高dv/dt、高频纹波吸收和SCR整流电路
- 尖峰电压钳位和保护等场合使用

Features

- Double sided metallized polypropylene film , series non-wound construction
- Low loss at high frequency
- Small inherent temperature rise
- Plastic case ,Flame retardent epoxy resin sealing
- High temperature resistance 125℃

Applications

- Widely used in medium and high frequency AC and DC circuits
- High voltage,high pulse,high energy storage,fast charge and discharge performance
- High dv/dt value,high frequency filter absorption performance, and can be use in SCR rectifier circuit
- Spike voltage clamping and protection

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC60384–16)		
气候类别/Climatic Category	40/105/56		
工作温度/Operating temperature range	Max.operating temperature Top.max +125℃		
	Upper category temperature Tmax +105℃		
	Lower category temperature Tmin –40℃		
	Rated temperature T_R +85℃		
类别电压VC连续运行 Category voltage Vc(continuous operation with Vdc or Vac at f≤1KHz)	T_{OP}(℃)	DC voltage derating	AC voltage derating
	T_{OP}≤85 85 < T_{OP}≤105	≤Vc=V_R Vc=V_R.(165–T_{OP})/80	$V_{C.RMS}$=V_{RMS} $V_{C.RMS}$=V_{RMS}.(165–T_{OP})/80
短工作周期工作电压Vop Operating voltage Vop for short operating periods(Vdc or Vac at f≤1KHz)	T_{OP}(℃)	DC voltage (max.hours)	AC voltage (max.hours)
	T_{OP}≤105 105 < T_{OP}≤125	Vop=1.1.Vc(1000h) Vop=1.0.Vc(1000h)	Vop=1.0.$V_{C.RMS}$(1000h) Vop=0.9.$V_{C.RMS}$(1000h)
额定电压/Rated voltage	630VDC,800VDC,1000VDC,1200VDC,1250VDC,1600VDC,2000VDC,2500VDC		
容量范围/Capacitance range	0.001uF~0.68uF		
容差/Capacitance tolerance	± 5%(J), ± 10(K)		
耐电压/Volage Proof	1.6*R,V(DC),5s(between teminals)		
损失角/Dissapation facfor	≤0.1%(1kHz at 20~25℃)		
绝缘阻抗/Insulation Resistance	≥50 000MΩ,C_R≤0.33 uF ≥15 000 s,C_R > 0.33 uF,(at 100 VDC,60s 20~25℃,50%~55% RH)		

最大脉冲爬升速率Maximum Pulse Rise Time(dv/dt):
若实际工作电压U比额定电压U_R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U_R/U.
If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.

U_R(V)	dv/dt(V/us)			
	P=10	P=15	P=22.5	P=27.5
630/1800VDC	1200	900	400	200
1000/1200VDC	2200	2000	800	400
1600VDC	/	4500	1800	900
2000VDC	/	9500	4500	/
2500VDC	/	10000	5000	/

备注：如客户有特别要求，可按客户要求生产。
Note:If the customer has special requirements,it can be produced according to customer requirements.

外形尺寸 Dimensions(mm)

630VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 2JC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 2JC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 2JC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 2JC2 ■●□□□⊙■ R
0.0018	13	12	6	0.6	10	DB182 ✳ 2JC3 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 2JC2 ■●□□□⊙■ R
0.0022	13	12	6	0.6	10	DB222 ✳ 2JC3 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 2JC2 ■●□□□⊙■ R
0.0027	13	12	6	0.6	10	DB272 ✳ 2JC3 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✳ 2JC2 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DB332 ✳ 2JC3 ■●□□□⊙■ R
0.0033	13	12.5	7	0.6	10	DB332 ✳ 2JC4 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DB392 ✳ 2JC2 ■●□□□⊙■ R
0.0039	13	12	6	0.6	10	DB392 ✳ 2JC3 ■●□□□⊙■ R
0.0039	13	12.5	7	0.6	10	DB392 ✳ 2JC4 ■●□□□⊙■ R
0.0047	13	11	5	0.6	10	DB472 ✳ 2JC2 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DB472 ✳ 2JC3 ■●□□□⊙■ R
0.0047	13	12.5	7	0.6	10	DB472 ✳ 2JC4 ■●□□□⊙■ R
0.0056	13	11	5	0.6	10	DB562 ✳ 2JC2 ■●□□□⊙■ R
0.0056	13	12	6	0.6	10	DB562 ✳ 2JC3 ■●□□□⊙■ R
0.0056	13	12.5	7	0.6	10	DB562 ✳ 2JC4 ■●□□□⊙■ R
0.0056	13	16	8	0.6	10	DB562 ✳ 2JC5 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DB682 ✳ 2JC3 ■●□□□⊙■ R
0.0068	13	12.5	7	0.6	10	DB682 ✳ 2JC4 ■●□□□⊙■ R
0.0068	13	16	8	0.6	10	DB682 ✳ 2JC5 ■●□□□⊙■ R
0.0082	13	12	6	0.6	10	DB822 ✳ 2JC3 ■●□□□⊙■ R
0.0082	13	12.5	7	0.6	10	DB822 ✳ 2JC4 ■●□□□⊙■ R
0.0082	13	16	8	0.6	10	DB822 ✳ 2JC5 ■●□□□⊙■ R
0.01	13	12.5	7	0.6	10	DB103 ✳ 2JC4 ■●□□□⊙■ R
0.01	13	16	8	0.6	10	DB103 ✳ 2JC5 ■●□□□⊙■ R
0.01	13	19	9	0.8	10	DB103 ✳ 2JC6 ■●□□□⊙■ R
0.012	13	12.5	7	0.6	10	DB123 ✳ 2KC4 ■●□□□⊙■ R
0.012	13	16	8	0.6	10	DB123 ✳ 2KC5 ■●□□□⊙■ R
0.012	13	19	9	0.8	10	DB123 ✳ 2KC6 ■●□□□⊙■ R
0.015	13	14	8	0.6	10	DB153 ✳ 2JC43 ●□□□⊙■ R
0.015	13	16	8	0.6	10	DB153 ✳ 2JC5 ■●□□□⊙■ R
0.015	13	19	9	0.8	10	DB153 ✳ 2JC6 ■●□□□⊙■ R
0.018	13	16	8	0.6	10	DB183 ✳ 2JC5 ■●□□□⊙■ R
0.018	13	19	9	0.8	10	DB183 ✳ 2JC6 ■●□□□⊙■ R
0.022	13	19	9	0.8	10	DB223 ✳ 2JC6 ■●□□□⊙■ R
0.027	13	19	9	0.8	10	DB273 ✳ 2JC6 ■●□□□⊙■ R
0.01	18	11	5	0.8	15	DB103 ✳ 2JD1 ■●□□□⊙■ R
0.01	18	12	6	0.8	15	DB103 ✳ 2JD2 ■●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DB103 ✳ 2JD3 ■●□□□⊙■ R
0.012	18	11	5	0.8	15	DB123 ✳ 2JD1 ■●□□□⊙■ R
0.012	18	12	6	0.8	15	DB123 ✳ 2JD2 ■●□□□⊙■ R
0.012	18	13.5	7.5	0.8	15	DB123 ✳ 2JD3 ■●□□□⊙■ R
0.012	18	14.5	8.5	0.8	15	DB123 ✳ 2JD4 ■●□□□⊙■ R
0.015	18	11	5	0.8	15	DB153 ✳ 2JD1 ■●□□□⊙■ R
0.015	18	12	6	0.8	15	DB153 ✳ 2JD2 ■●□□□⊙■ R
0.015	18	13.5	7.5	0.8	15	DB153 ✳ 2JD3 ■●□□□⊙■ R

630VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.015	18	14.5	8.5	0.8	15	DB153 ✳ 2JD4 ■●□□□⊙■ R
0.018	18	12	6	0.8	15	DB183 ✳ 2JD2 ■●□□□⊙■ R
0.018	18	13.5	7.5	0.8	15	DB183 ✳ 2JD3 ■●□□□⊙■ R
0.018	18	14.5	8.5	0.8	15	DB183 ✳ 2JD4 ■●□□□⊙■ R
0.018	18	16	10	0.8	15	DB183 ✳ 2JD5 ■●□□□⊙■ R
0.022	18	13.5	7.5	0.8	15	DB223 ✳ 2JD3 ■●□□□⊙■ R
0.022	18	14.5	8.5	0.8	15	DB223 ✳ 2JD4 ■●□□□⊙■ R
0.022	18	16	10	0.8	15	DB223 ✳ 2JD5 ■●□□□⊙■ R
0.027	18	13.5	7.5	0.8	15	DB273 ✳ 2JD3 ■●□□□⊙■ R
0.027	18	14.5	8.5	0.8	15	DB273 ✳ 2JD4 ■●□□□⊙■ R
0.027	18	16	10	0.8	15	DB273 ✳ 2JD5 ■●□□□⊙■ R
0.033	18	13.5	7.5	0.8	15	DB333 ✳ 2JD3 ■●□□□⊙■ R
0.033	18	14.5	8.5	0.8	15	DB333 ✳ 2JD4 ■●□□□⊙■ R
0.033	18	16	10	0.8	15	DB333 ✳ 2JD5 ■●□□□⊙■ R
0.033	18	18.5	11	0.8	15	DB333 ✳ 2JD6 ■●□□□⊙■ R
0.039	18	14.5	8.5	0.8	15	DB393 ✳ 2JD4 ■●□□□⊙■ R
0.039	18	16	10	0.8	15	DB393 ✳ 2JD5 ■●□□□⊙■ R
0.039	18	18.5	11	0.8	15	DB393 ✳ 2JD6 ■●□□□⊙■ R
0.047	18	16	10	0.8	15	DB473 ✳ 2JD5 ■●□□□⊙■ R
0.047	18	18.5	11	0.8	15	DB473 ✳ 2JD6 ■●□□□⊙■ R
0.056	18	16	10	0.8	15	DB563 ✳ 2JD5 ■●□□□⊙■ R
0.056	18	18.5	11	0.8	15	DB563 ✳ 2JD6 ■●□□□⊙■ R
0.068	18	17.5	10	0.8	15	DB683 ✳ 2JD56 ●□□□⊙■ R
0.082	18	18.5	11	0.8	15	DB823 ✳ 2JD6 ■●□□□⊙■ R
0.1	18	22	13	0.8	15	DB104 ✳ 2JD7 ■●□□□⊙■ R
0.068	26.5	17	7	0.8	22.5	DB683 ✳ 2JE2 ■●□□□⊙■ R
0.068	26.5	17	8.5	0.8	22.5	DB683 ✳ 2JE3 ■●□□□⊙■ R
0.068	26.5	19	10	0.8	22.5	DB683 ✳ 2JE4 ■●□□□⊙■ R
0.068	26	20	11	0.8	22.5	DB683 ✳ 2JE5 ■●□□□⊙■ R
0.082	26.5	17	8.5	0.8	22.5	DB823 ✳ 2JE3 ■●□□□⊙■ R
0.082	26.5	19	10	0.8	22.5	DB823 ✳ 2JE4 ■●□□□⊙■ R
0.082	26	20	11	0.8	22.5	DB823 ✳ 2JE5 ■●□□□⊙■ R
0.082	26	21.5	12	0.8	22.5	DB823 ✳ 2JE6 ■●□□□⊙■ R
0.1	26.5	17	8.5	0.8	22.5	DB104 ✳ 2JE3 ■●□□□⊙■ R
0.1	26.5	19	10	0.8	22.5	DB104 ✳ 2JE4 ■●□□□⊙■ R
0.1	26	20	11	0.8	22.5	DB104 ✳ 2JE5 ■●□□□⊙■ R
0.1	26	21.5	12	0.8	22.5	DB104 ✳ 2JE6 ■●□□□⊙■ R
0.12	26.5	19	10	0.8	22.5	DB124 ✳ 2JE4 ■●□□□⊙■ R
0.12	26	20	11	0.8	22.5	DB124 ✳ 2JE5 ■●□□□⊙■ R
0.12	26	21.5	12	0.8	22.5	DB124 ✳ 2JE6 ■●□□□⊙■ R
0.15	26	20	11	0.8	22.5	DB154 ✳ 2JE5 ■●□□□⊙■ R
0.15	26	21.5	12	0.8	22.5	DB154 ✳ 2JE6 ■●□□□⊙■ R
0.18	26	21.5	12	0.8	22.5	DB184 ✳ 2JE6 ■●□□□⊙■ R
0.1	30	17.5	10	0.8	27.5	DB104 ✳ 2JF0 ■●□□□⊙■ R
0.1	32	20	11	0.8	27.5	DB104 ✳ 2JF1 ■●□□□⊙■ R
0.1	32	22	13	0.8	27.5	DB104 ✳ 2JF2 ■●□□□⊙■ R
0.15	32	20	11	0.8	27.5	DB154 ✳ 2JF1 ■●□□□⊙■ R
0.15	32	22	13	0.8	27.5	DB154 ✳ 2JF2 ■●□□□⊙■ R
0.15	32	25	15	0.8	27.5	DB154 ✳ 2JF3 ■●□□□⊙■ R
0.18	32	22	13	0.8	27.5	DB184 ✳ 2JF2 ■●□□□⊙■ R
0.18	32	25	15	0.8	27.5	DB184 ✳ 2JF3 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

630VDC

CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.22	32	22	13	0.8	27.5	DB224 ✳ 2JF2 ■●□□□⊙■ R
0.22	32	25	15	0.8	27.5	DB224 ✳ 2JF3 ■●□□□⊙■ R
0.27	32	25	15	0.8	27.5	DB274 ✳ 2JF3 ■●□□□⊙■ R
0.33	32	25	15	0.8	27.5	DB334 ✳ 2JF3 ■●□□□⊙■ R
0.39	32	30	18	0.8	27.5	DB394 ✳ 2JF4 ■●□□□⊙■ R
0.47	32	30	18	0.8	27.5	DB474 ✳ 2JF4 ■●□□□⊙■ R

800VDC

CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.0010	13	11	5	0.6	10	DB102 ✳ 2KC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 2KC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 2KC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 2KC2 ■●□□□⊙■ R
0.0018	13	12	6	0.6	10	DB182 ✳ 2KC3 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 2KC2 ■●□□□⊙■ R
0.0022	13	12	6	0.6	10	DB222 ✳ 2KC3 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 2KC2 ■●□□□⊙■ R
0.0027	13	12	6	0.6	10	DB272 ✳ 2KC3 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✳ 2KC2 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DB332 ✳ 2KC3 ■●□□□⊙■ R
0.0033	13	12.5	7	0.6	10	DB332 ✳ 2KC4 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DB392 ✳ 2KC2 ■●□□□⊙■ R
0.0039	13	12	6	0.6	10	DB392 ✳ 2KC3 ■●□□□⊙■ R
0.0039	13	12.5	7	0.6	10	DB392 ✳ 2KC4 ■●□□□⊙■ R
0.0047	13	11	5	0.6	10	DB472 ✳ 2KC2 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DB472 ✳ 2KC3 ■●□□□⊙■ R
0.0047	13	12.5	7	0.6	10	DB472 ✳ 2KC4 ■●□□□⊙■ R
0.0056	13	11	5	0.6	10	DB562 ✳ 2KC2 ■●□□□⊙■ R
0.0056	13	12	6	0.6	10	DB562 ✳ 2KC3 ■●□□□⊙■ R
0.0056	13	12.5	7	0.6	10	DB562 ✳ 2KC4 ■●□□□⊙■ R
0.0056	13	16	8	0.6	10	DB562 ✳ 2KC5 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DB682 ✳ 2KC3 ■●□□□⊙■ R
0.0068	13	12.5	7	0.6	10	DB682 ✳ 2KC4 ■●□□□⊙■ R
0.0068	13	16	8	0.6	10	DB682 ✳ 2KC5 ■●□□□⊙■ R
0.0082	13	12	6	0.6	10	DB822 ✳ 2KC3 ■●□□□⊙■ R
0.0082	13	12.5	7	0.6	10	DB822 ✳ 2KC4 ■●□□□⊙■ R
0.0082	13	16	8	0.6	10	DB822 ✳ 2KC5 ■●□□□⊙■ R
0.01	13	12.5	7	0.6	10	DB103 ✳ 2KC4 ■●□□□⊙■ R
0.01	13	16	8	0.6	10	DB103 ✳ 2KC5 ■●□□□⊙■ R
0.01	13	19	9	0.8	10	DB103 ✳ 2KC6 ■●□□□⊙■ R
0.012	13	12.5	7	0.6	10	DB123 ✳ 2KC4 ■●□□□⊙■ R
0.012	13	16	8	0.6	10	DB123 ✳ 2KC5 ■●□□□⊙■ R
0.012	13	19	9	0.8	10	DB123 ✳ 2KC6 ■●□□□⊙■ R
0.015	13	16	8	0.6	10	DB153 ✳ 2KC5 ■●□□□⊙■ R
0.015	13	19	9	0.8	10	DB153 ✳ 2KC6 ■●□□□⊙■ R
0.018	13	16	8	0.6	10	DB183 ✳ 2KC5 ■●□□□⊙■ R
0.018	13	19	9	0.8	10	DB183 ✳ 2KC6 ■●□□□⊙■ R
0.022	13	19	9	0.8	10	DB223 ✳ 2KC6 ■●□□□⊙■ R

800VDC

CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.027	13	19	9	0.8	10	DB273 ✳ 2KC6 ■●□□□⊙■ R
0.01	18	11	5	0.8	15	DB103 ✳ 2KD1 ■●□□□⊙■ R
0.01	18	12	6	0.8	15	DB103 ✳ 2KD2 ■●□□□⊙■ R
0.01	18	13	6.5	0.8	15	DB103 ✳ 2KD25 ●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DB103 ✳ 2KD3 ■●□□□⊙■ R
0.012	18	11	5	0.8	15	DB123 ✳ 2KD1 ■●□□□⊙■ R
0.012	18	12	6	0.8	15	DB123 ✳ 2KD2 ■●□□□⊙■ R
0.012	18	13	6.5	0.8	15	DB123 ✳ 2KD25 ●□□□⊙■ R
0.012	18	13.5	7.5	0.8	15	DB123 ✳ 2KD3 ■●□□□⊙■ R
0.012	18	14.5	8.5	0.8	15	DB123 ✳ 2KD4 ■●□□□⊙■ R
0.015	18	11	5	0.8	15	DB153 ✳ 2KD1 ■●□□□⊙■ R
0.015	18	12	6	0.8	15	DB153 ✳ 2KD2 ■●□□□⊙■ R
0.015	18	13	6.5	0.8	15	DB153 ✳ 2KD25 ●□□□⊙■ R
0.015	18	13.5	7.5	0.8	15	DB153 ✳ 2KD3 ■●□□□⊙■ R
0.015	18	14.5	8.5	0.8	15	DB153 ✳ 2KD4 ■●□□□⊙■ R
0.018	18	12	6	0.8	15	DB183 ✳ 2KD2 ■●□□□⊙■ R
0.018	18	13	6.5	0.8	15	DB183 ✳ 2KD25 ●□□□⊙■ R
0.018	18	13.5	7.5	0.8	15	DB183 ✳ 2KD3 ■●□□□⊙■ R
0.018	18	14.5	8.5	0.8	15	DB183 ✳ 2KD4 ■●□□□⊙■ R
0.018	18	16	10	0.8	15	DB183 ✳ 2KD5 ■●□□□⊙■ R
0.022	18	13.5	7.5	0.8	15	DB223 ✳ 2KD3 ■●□□□⊙■ R
0.022	18	14.5	8.5	0.8	15	DB223 ✳ 2KD4 ■●□□□⊙■ R
0.022	18	16	10	0.8	15	DB223 ✳ 2KD5 ■●□□□⊙■ R
0.027	18	13	6.5	0.8	15	DB273 ✳ 2KD25 ●□□□⊙■ R
0.027	18	13.5	7.5	0.8	15	DB273 ✳ 2KD3 ■●□□□⊙■ R
0.027	18	14.5	8.5	0.8	15	DB273 ✳ 2KD4 ■●□□□⊙■ R
0.027	18	16	10	0.8	15	DB273 ✳ 2KD5 ■●□□□⊙■ R
0.033	18	13.5	7.5	0.8	15	DB333 ✳ 2KD3 ■●□□□⊙■ R
0.033	18	14.5	8.5	0.8	15	DB333 ✳ 2KD4 ■●□□□⊙■ R
0.033	18	16	10	0.8	15	DB333 ✳ 2KD5 ■●□□□⊙■ R
0.033	18	18.5	11	0.8	15	DB333 ✳ 2KD6 ■●□□□⊙■ R
0.039	18	14.5	8.5	0.8	15	DB393 ✳ 2KD4 ■●□□□⊙■ R
0.039	18	16	10	0.8	15	DB333 ✳ 2KD5 ■●□□□⊙■ R
0.039	18	18.5	11	0.8	15	DB333 ✳ 2KD6 ■●□□□⊙■ R
0.047	18	16	10	0.8	15	DB473 ✳ 2KD5 ■●□□□⊙■ R
0.047	18	18.5	11	0.8	15	DB473 ✳ 2KD6 ■●□□□⊙■ R
0.056	18	16	10	0.8	15	DB563 ✳ 2KD5 ■●□□□⊙■ R
0.056	18	18.5	11	0.8	15	DB563 ✳ 2KD6 ■●□□□⊙■ R
0.068	18	18.5	11	0.8	15	DB683 ✳ 2KD6 ■●□□□⊙■ R
0.082	18	18.5	11	0.8	15	DB823 ✳ 2KD6 ■●□□□⊙■ R
0.1	18	22	13	0.8	15	DB104 ✳ 2KD7 ■●□□□⊙■ R
0.068	26.5	17	7	0.8	22.5	DB683 ✳ 2KE2 ●□□□⊙■ R
0.068	26.5	17	8.5	0.8	22.5	DB683 ✳ 2KE3 ■●□□□⊙■ R
0.068	26.5	19	10	0.8	22.5	DB683 ✳ 2KE4 ■●□□□⊙■ R
0.068	26.5	20	11	0.8	22.5	DB683 ✳ 2KE5 ■●□□□⊙■ R
0.082	26.5	17	8.5	0.8	22.5	DB823 ✳ 2KE3 ■●□□□⊙■ R
0.082	26.5	19	10	0.8	22.5	DB823 ✳ 2KE4 ■●□□□⊙■ R
0.082	26	20	11	0.8	22.5	DB823 ✳ 2KE5 ■●□□□⊙■ R
0.082	26	21.5	12	0.8	22.5	DB823 ✳ 2KE6 ■●□□□⊙■ R
0.1	26.5	17	8.5	0.8	22.5	DB104 ✳ 2KE3 ■●□□□⊙■ R
0.1	26.5	19	10	0.8	22.5	DB104 ✳ 2KE4 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

800VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.1	26	20	11	0.8	22.5	DB104 ✶ 2KE5 ■●□□□⊙■ R
0.1	26	21.5	12	0.8	22.5	DB104 ✶ 2KE6 ■●□□□⊙■ R
0.12	26.5	19	10	0.8	22.5	DB124 ✶ 2KE4 ■●□□□⊙■ R
0.12	26	20	11	0.8	22.5	DB124 ✶ 2KE5 ■●□□□⊙■ R
0.12	26	21.5	12	0.8	22.5	DB124 ✶ 2KE6 ■●□□□⊙■ R
0.15	26	20	11	0.8	22.5	DB154 ✶ 2KE5 ■●□□□⊙■ R
0.15	26	21.5	12	0.8	22.5	DB154 ✶ 2KE6 ■●□□□⊙■ R
0.18	26	21.5	12	0.8	22.5	DB184 ✶ 2KE6 ■●□□□⊙■ R
0.1	30	17.5	10	0.8	27.5	DB104 ✶ 2KF0 ■●□□□⊙■ R
0.1	32	20	11	0.8	27.5	DB104 ✶ 2KF1 ■●□□□⊙■ R
0.1	32	22	13	0.8	27.5	DB104 ✶ 2KF2 ■●□□□⊙■ R
0.15	32	20	11	0.8	27.5	DB154 ✶ 2KF1 ■●□□□⊙■ R
0.15	32	22	13	0.8	27.5	DB154 ✶ 2KF2 ■●□□□⊙■ R
0.15	32	25	15	0.8	27.5	DB154 ✶ 2KF3 ■●□□□⊙■ R
0.18	32	22	13	0.8	27.5	DB184 ✶ 2KF2 ■●□□□⊙■ R
0.18	32	25	15	0.8	27.5	DB184 ✶ 2KF3 ■●□□□⊙■ R
0.22	32	22	13	0.8	27.5	DB224 ✶ 2KF2 ■●□□□⊙■ R
0.22	32	25	15	0.8	27.5	DB224 ✶ 2KF3 ■●□□□⊙■ R
0.27	32	25	15	0.8	27.5	DB274 ✶ 2KF3 ■●□□□⊙■ R
0.33	32	25	15	0.8	27.5	DB334 ✶ 2KF3 ■●□□□⊙■ R
0.39	32	30	18	0.8	27.5	DB394 ✶ 2KF4 ■●□□□⊙■ R
0.47	32	30	18	0.8	27.5	DB474 ✶ 2KF4 ■●□□□⊙■ R

1000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✶ 3AC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✶ 3AC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✶ 3AC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✶ 3AC2 ■●□□□⊙■ R
0.0018	13	12	6	0.6	10	DB182 ✶ 3AC3 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✶ 3AC2 ■●□□□⊙■ R
0.0022	13	12	6	0.6	10	DB222 ✶ 3AC3 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✶ 3AC2 ■●□□□⊙■ R
0.0027	13	12	6	0.6	10	DB272 ✶ 3AC3 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✶ 3AC2 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DB332 ✶ 3AC3 ■●□□□⊙■ R
0.0033	13	12.5	7	0.6	10	DB332 ✶ 3AC4 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DB392 ✶ 3AC2 ■●□□□⊙■ R
0.0039	13	12	6	0.6	10	DB392 ✶ 3AC3 ■●□□□⊙■ R
0.0039	13	12.5	7	0.6	10	DB392 ✶ 3AC4 ■●□□□⊙■ R
0.0047	13	11	5	0.6	10	DB472 ✶ 3AC2 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DB472 ✶ 3AC3 ■●□□□⊙■ R
0.0047	13	12.5	7	0.6	10	DB472 ✶ 3AC4 ■●□□□⊙■ R
0.0056	13	11	5	0.6	10	DB562 ✶ 3AC2 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DB682 ✶ 3AC3 ■●□□□⊙■ R
0.0068	13	12.5	7	0.6	10	DB682 ✶ 3AC4 ■●□□□⊙■ R
0.0068	13	16	8	0.6	10	DB682 ✶ 3AC5 ■●□□□⊙■ R
0.0082	13	12	6	0.6	10	DB822 ✶ 3AC3 ■●□□□⊙■ R

1000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0082	13	12.5	7	0.6	10	DB822 ✶ 3AC4 ■●□□□⊙■ R
0.0082	13	16	8	0.6	10	DB822 ✶ 3AC5 ■●□□□⊙■ R
0.01	13	16	8	0.6	10	DB103 ✶ 3AC5 ■●□□□⊙■ R
0.01	13	19	9	0.8	10	DB103 ✶ 3AC6 ■●□□□⊙■ R
0.012	13	12.5	7	0.6	10	DB123 ✶ 3AC4 ■●□□□⊙■ R
0.012	13	16	8	0.6	10	DB123 ✶ 3AC5 ■●□□□⊙■ R
0.012	13	19	9	0.8	10	DB123 ✶ 3AC6 ■●□□□⊙■ R
0.015	13	16	8	0.6	10	DB153 ✶ 3AC5 ■●□□□⊙■ R
0.015	13	19	9	0.8	10	DB153 ✶ 3AC6 ■●□□□⊙■ R
0.018	13	16	8	0.6	10	DB183 ✶ 3AC5 ■●□□□⊙■ R
0.018	13	19	9	0.8	10	DB183 ✶ 3AC6 ■●□□□⊙■ R
0.022	13	19	9	0.8	10	DB223 ✶ 3AC6 ■●□□□⊙■ R
0.027	13	19	9	0.8	10	DB273 ✶ 3AC6 ■●□□□⊙■ R
0.01	18	11	5	0.8	15	DB103 ✶ 3AD1 ■●□□□⊙■ R
0.01	18	12	6	0.8	15	DB103 ✶ 3AD2 ■●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DB103 ✶ 3AD3 ■●□□□⊙■ R
0.012	18	11	5	0.8	15	DB123 ✶ 3AD1 ■●□□□⊙■ R
0.012	18	12	6	0.8	15	DB123 ✶ 3AD2 ■●□□□⊙■ R
0.012	18	13.5	7.5	0.8	15	DB123 ✶ 3AD3 ■●□□□⊙■ R
0.012	18	14.5	8.5	0.8	15	DB123 ✶ 3AD4 ■●□□□⊙■ R
0.015	18	11	5	0.8	15	DB153 ✶ 3AD1 ■●□□□⊙■ R
0.015	18	12	6	0.8	15	DB153 ✶ 3AD2 ■●□□□⊙■ R
0.015	18	13.5	7.5	0.8	15	DB153 ✶ 3AD3 ■●□□□⊙■ R
0.015	18	14.5	8.5	0.8	15	DB153 ✶ 3AD4 ■●□□□⊙■ R
0.018	18	12	6	0.8	15	DB183 ✶ 3AD2 ■●□□□⊙■ R
0.018	18	13.5	7.5	0.8	15	DB183 ✶ 3AD3 ■●□□□⊙■ R
0.018	18	14.5	8.5	0.8	15	DB183 ✶ 3AD4 ■●□□□⊙■ R
0.018	18	16	10	0.8	15	DB183 ✶ 3AD5 ■●□□□⊙■ R
0.022	18	12	6	0.8	15	DB223 ✶ 3AD2 ■●□□□⊙■ R
0.022	18	13.5	7.5	0.8	15	DB223 ✶ 3AD3 ■●□□□⊙■ R
0.022	18	14.5	8.5	0.8	15	DB223 ✶ 3AD4 ■●□□□⊙■ R
0.022	18	16	10	0.8	15	DB223 ✶ 3AD5 ■●□□□⊙■ R
0.027	18	13	6.5	0.8	15	DB273 ✶ 3AD25 ●□□□⊙■ R
0.027	18	13.5	7.5	0.8	15	DB273 ✶ 3AD3 ■●□□□⊙■ R
0.027	18	14.5	8.5	0.8	15	DB273 ✶ 3AD4 ■●□□□⊙■ R
0.027	18	16	10	0.8	15	DB273 ✶ 3AD5 ■●□□□⊙■ R
0.033	18	13.5	7.5	0.8	15	DB333 ✶ 3AD3 ■●□□□⊙■ R
0.033	18	14.5	8.5	0.8	15	DB333 ✶ 3AD4 ■●□□□⊙■ R
0.033	18	16	10	0.8	15	DB333 ✶ 3AD5 ■●□□□⊙■ R
0.033	18	18.5	11	0.8	15	DB333 ✶ 3AD6 ■●□□□⊙■ R
0.039	18	14.5	8.5	0.8	15	DB393 ✶ 3AD4 ■●□□□⊙■ R
0.039	18	16	10	0.8	15	DB393 ✶ 3AD5 ■●□□□⊙■ R
0.039	18	18.5	11	0.8	15	DB393 ✶ 3AD6 ■●□□□⊙■ R
0.047	18	17	8.5	0.8	15	DB473 ✶ 3AD42 ●□□□⊙■ R
0.047	18	16	10	0.8	15	DB473 ✶ 3AD5 ■●□□□⊙■ R
0.047	18	18.5	11	0.8	15	DB473 ✶ 3AD6 ■●□□□⊙■ R
0.056	18	16	10	0.8	15	DB563 ✶ 3AD5 ■●□□□⊙■ R
0.056	18	18.5	11	0.8	15	DB563 ✶ 3AD6 ■●□□□⊙■ R
0.068	18	17.5	10	0.8	15	DB683 ✶ 3AD56 ●□□□⊙■ R
0.082	18	18.5	11	0.8	15	DB823 ✶ 3AD6 ■●□□□⊙■ R
0.1	18	22	13	0.8	15	DB104 ✶ 3AD7 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.068	26.5	17	7	0.8	22.5	DB683 ✳ 3AE2 ■●□□□⊙■ R
0.068	26.5	17	8.5	0.8	22.5	DB683 ✳ 3AE3 ■●□□□⊙■ R
0.068	26.5	19	10	0.8	22.5	DB683 ✳ 3AE4 ■●□□□⊙■ R
0.068	26	20	11	0.8	22.5	DB683 ✳ 3AE5 ■●□□□⊙■ R
0.082	26.5	17	8.5	0.8	22.5	DB823 ✳ 3AE3 ■●□□□⊙■ R
0.082	26.5	19	10	0.8	22.5	DB823 ✳ 3AE4 ■●□□□⊙■ R
0.082	26	20	11	0.8	22.5	DB823 ✳ 3AE5 ■●□□□⊙■ R
0.082	26	21.5	12	0.8	22.5	DB823 ✳ 3AE6 ■●□□□⊙■ R
0.1	26.5	17	8.5	0.8	22.5	DB104 ✳ 3AE3 ■●□□□⊙■ R
0.1	26.5	19	10	0.8	22.5	DB104 ✳ 3AE4 ■●□□□⊙■ R
0.1	26	20	11	0.8	22.5	DB104 ✳ 3AE5 ■●□□□⊙■ R
0.1	26	21.5	12	0.8	22.5	DB104 ✳ 3AE6 ■●□□□⊙■ R
0.12	26.5	19	10	0.8	22.5	DB124 ✳ 3AE4 ■●□□□⊙■ R
0.12	26	20	11	0.8	22.5	DB124 ✳ 3AE5 ■●□□□⊙■ R
0.12	26	21.5	12	0.8	22.5	DB124 ✳ 3AE6 ■●□□□⊙■ R
0.15	26	20	11	0.8	22.5	DB154 ✳ 3AE5 ■●□□□⊙■ R
0.15	26	21.5	12	0.8	22.5	DB154 ✳ 3AE6 ■●□□□⊙■ R
0.18	26	21.5	12	0.8	22.5	DB184 ✳ 3AE6 ■●□□□⊙■ R
0.1	30	17.5	10	0.8	27.5	DB104 ✳ 3AF0 ■●□□□⊙■ R
0.1	32	20	11	0.8	27.5	DB104 ✳ 3AF1 ■●□□□⊙■ R
0.1	32	22	13	0.8	27.5	DB104 ✳ 3AF2 ■●□□□⊙■ R
0.15	32	20	11	0.8	27.5	DB154 ✳ 3AF1 ■●□□□⊙■ R
0.15	32	22	13	0.8	27.5	DB154 ✳ 3AF2 ■●□□□⊙■ R
0.15	32	25	15	0.8	27.5	DB154 ✳ 3AF3 ■●□□□⊙■ R
0.18	32	22	13	0.8	27.5	DB184 ✳ 3AF2 ■●□□□⊙■ R
0.18	32	25	15	0.8	27.5	DB184 ✳ 3AF3 ■●□□□⊙■ R
0.22	32	22	13	0.8	27.5	DB224 ✳ 3AF2 ■●□□□⊙■ R
0.22	32	25	15	0.8	27.5	DB224 ✳ 3AF3 ■●□□□⊙■ R
0.27	32	25	15	0.8	27.5	DB274 ✳ 3AF3 ■●□□□⊙■ R
0.33	32	25	15	0.8	27.5	DB334 ✳ 3AF3 ■●□□□⊙■ R
0.47	32	30	18	0.8	27.5	DB474 ✳ 3AF4 ■●□□□⊙■ R

1200VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 3BC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 3BC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 3BC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 3BC2 ■●□□□⊙■ R
0.0018	13	12	6	0.6	10	DB182 ✳ 3BC3 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 3BC2 ■●□□□⊙■ R
0.0022	13	12	6	0.6	10	DB222 ✳ 3BC3 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 3BC2 ■●□□□⊙■ R
0.0027	13	12	6	0.6	10	DB272 ✳ 3BC3 ■●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✳ 3BC2 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DB332 ✳ 3BC3 ■●□□□⊙■ R
0.0033	13	12.5	7	0.6	10	DB332 ✳ 3BC4 ■●□□□⊙■ R
0.0039	13	11	5	0.6	10	DB392 ✳ 3BC2 ■●□□□⊙■ R
0.0039	13	12	6	0.6	10	DB392 ✳ 3BC3 ■●□□□⊙■ R

1200VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0039	13	12.5	7	0.6	10	DB392 ✳ 3BC4 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DB472 ✳ 3BC3 ■●□□□⊙■ R
0.0047	13	12.5	7	0.6	10	DB472 ✳ 3BC4 ■●□□□⊙■ R
0.0056	13	12	6	0.6	10	DB562 ✳ 3BC3 ■●□□□⊙■ R
0.0056	13	12.5	7	0.6	10	DB562 ✳ 3BC4 ■●□□□⊙■ R
0.0056	13	16	8	0.6	10	DB562 ✳ 3BC5 ■●□□□⊙■ R
0.0068	13	12	6	0.6	10	DB682 ✳ 3BC3 ■●□□□⊙■ R
0.0068	13	12.5	7	0.6	10	DB682 ✳ 3BC4 ■●□□□⊙■ R
0.0068	13	19	9	0.8	10	DB682 ✳ 3BC6 ■●□□□⊙■ R
0.0082	13	13.5	6.5	0.6	10	DB822 ✳ 3BC45 ●□□□⊙■ R
0.0082	13	16	8	0.6	10	DB822 ✳ 3BC5 ■●□□□⊙■ R
0.0082	13	19	9	0.8	10	DB822 ✳ 3BC6 ■●□□□⊙■ R
0.01	13	16	8	0.6	10	DB103 ✳ 3BC5 ■●□□□⊙■ R
0.01	13	19	9	0.8	10	DB103 ✳ 3BC6 ■●□□□⊙■ R
0.012	13	16	8	0.6	10	DB123 ✳ 3BC5 ■●□□□⊙■ R
0.012	13	19	9	0.8	10	DB123 ✳ 3BC6 ■●□□□⊙■ R
0.015	13	16	8	0.6	10	DB153 ✳ 3BC5 ■●□□□⊙■ R
0.015	13	19	9	0.8	10	DB153 ✳ 3BC6 ■●□□□⊙■ R
0.018	13	19	9	0.8	10	DB183 ✳ 3BC6 ■●□□□⊙■ R
0.022	13	19	9	0.8	10	DB223 ✳ 3BC6 ■●□□□⊙■ R
0.01	18	11	5	0.8	15	DB103 ✳ 3BD1 ■●□□□⊙■ R
0.01	18	12	6	0.8	15	DB103 ✳ 3BD2 ■●□□□⊙■ R
0.01	18	13	6.5	0.8	15	DB103 ✳ 3BD25 ●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DB103 ✳ 3BD3 ■●□□□⊙■ R
0.012	18	12	6	0.8	15	DB123 ✳ 3BD2 ■●□□□⊙■ R
0.012	18	13	6.5	0.8	15	DB123 ✳ 3BD25 ●□□□⊙■ R
0.012	18	13.5	7.5	0.8	15	DB123 ✳ 3BD3 ■●□□□⊙■ R
0.015	18	12	6	0.8	15	DB153 ✳ 3BD2 ■●□□□⊙■ R
0.015	18	13	6.5	0.8	15	DB153 ✳ 3BD25 ●□□□⊙■ R
0.015	18	13.5	7.5	0.8	15	DB153 ✳ 3BD3 ■●□□□⊙■ R
0.015	18	14.5	8.5	0.8	15	DB153 ✳ 3BD4 ■●□□□⊙■ R
0.018	18	13	6.5	0.8	15	DB183 ✳ 3BD25 ●□□□⊙■ R
0.018	18	13.5	7.5	0.8	15	DB183 ✳ 3BD3 ■●□□□⊙■ R
0.018	18	14.5	8.5	0.8	15	DB183 ✳ 3BD4 ■●□□□⊙■ R
0.018	18	16	10	0.8	15	DB183 ✳ 3BD5 ■●□□□⊙■ R
0.022	18	13.5	7.5	0.8	15	DB223 ✳ 3BD3 ■●□□□⊙■ R
0.022	18	14.5	8.5	0.8	15	DB223 ✳ 3BD4 ■●□□□⊙■ R
0.022	18	16	10	0.8	15	DB223 ✳ 3BD5 ■●□□□⊙■ R
0.027	18	15	7	0.8	15	DB273 ✳ 3BD33 ●□□□⊙■ R
0.027	18	14.5	8.5	0.8	15	DB273 ✳ 3BD4 ■●□□□⊙■ R
0.027	18	16	10	0.8	15	DB273 ✳ 3BD5 ■●□□□⊙■ R
0.027	18	18.5	11	0.8	15	DB273 ✳ 3BD6 ■●□□□⊙■ R
0.033	17.5	17	7.5	0.8	15	DB333 ✳ 3BD32 ●□□□⊙■ R
0.033	18	16	10	0.8	15	DB333 ✳ 3BD5 ■●□□□⊙■ R
0.033	18	18.5	11	0.8	15	DB333 ✳ 3BD6 ■●□□□⊙■ R
0.039	18	16	10	0.8	15	DB393 ✳ 3BD5 ■●□□□⊙■ R
0.039	18	18.5	11	0.8	15	DB393 ✳ 3BD6 ■●□□□⊙■ R
0.047	18	17.5	10	0.8	15	DB473 ✳ 3BD56 ●□□□⊙■ R
0.047	18	18.5	11	0.8	15	DB473 ✳ 3BD6 ■●□□□⊙■ R
0.056	18	18.5	11	0.8	15	DB563 ✳ 3BD6 ■●□□□⊙■ R
0.068	18	22	13	0.8	15	DB683 ✳ 3BD7 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1200VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.082	18	22	13	0.8	15	DB823 ✳ 3BD7 ■●□□□⊙■ R
0.068	26.5	17	8.5	0.8	22.5	DB683 ✳ 3BE3 ■●□□□⊙■ R
0.068	26.5	19	10	0.8	22.5	DB683 ✳ 3BE4 ■●□□□⊙■ R
0.068	26	20	11	0.8	22.5	DB683 ✳ 3BE5 ■●□□□⊙■ R
0.068	26	21.5	12	0.8	22.5	DB683 ✳ 3BE6 ■●□□□⊙■ R
0.082	26.5	17	8.5	0.8	22.5	DB823 ✳ 3BE3 ■●□□□⊙■ R
0.082	26.5	19	10	0.8	22.5	DB823 ✳ 3BE4 ■●□□□⊙■ R
0.082	26	20	11	0.8	22.5	DB823 ✳ 3BE5 ■●□□□⊙■ R
0.082	26	21.5	12	0.8	22.5	DB823 ✳ 3BE6 ■●□□□⊙■ R
0.1	26.5	19	10	0.8	22.5	DB104 ✳ 3BE4 ■●□□□⊙■ R
0.1	26	20	11	0.8	22.5	DB104 ✳ 3BE5 ■●□□□⊙■ R
0.1	26	21.5	12	0.8	22.5	DB104 ✳ 3BE6 ■●□□□⊙■ R
0.12	26	20	11	0.8	22.5	DB124 ✳ 3BE5 ■●□□□⊙■ R
0.12	26	21.5	12	0.8	22.5	DB124 ✳ 3BE6 ■●□□□⊙■ R
0.15	26	21.5	12	0.8	22.5	DB154 ✳ 3BE6 ■●□□□⊙■ R
0.15	26	22	13.5	0.8	22.5	DB154 ✳ 3BE7 ■●□□□⊙■ R
0.18	26	22	13.5	0.8	22.5	DB184 ✳ 3BE7 ■●□□□⊙■ R
0.22	26	25	16.5	0.8	22.5	DB224 ✳ 3BE8 ■●□□□⊙■ R
0.1	30	17.5	10	0.8	27.5	DB104 ✳ 3BF0 ■●□□□⊙■ R
0.1	32	20	11	0.8	27.5	DB104 ✳ 3BF1 ■●□□□⊙■ R
0.1	32	22	13	0.8	27.5	DB104 ✳ 3BF2 ■●□□□⊙■ R
0.15	32	22	13	0.8	27.5	DB154 ✳ 3BF2 ■●□□□⊙■ R
0.15	32	25	15	0.8	27.5	DB154 ✳ 3BF3 ■●□□□⊙■ R
0.18	32	22	13	0.8	27.5	DB184 ✳ 3BF2 ■●□□□⊙■ R
0.18	32	25	15	0.8	27.5	DB184 ✳ 3BF3 ■●□□□⊙■ R
0.22	32	25	15	0.8	27.5	DB224 ✳ 3BF3 ■●□□□⊙■ R
0.27	32	25	15	0.8	27.5	DB274 ✳ 3BF3 ■●□□□⊙■ R
0.33	32	30	18	0.8	27.5	DB334 ✳ 3BF4 ■●□□□⊙■ R
0.47	32	30	18	0.8	27.5	DB474 ✳ 3BF4 ■●□□□⊙■ R

1600VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0010	13	11	5	0.6	10	DB102 ✳ 3CC2 ■●□□□⊙■ R
0.0012	13	11	5	0.6	10	DB122 ✳ 3CC2 ■●□□□⊙■ R
0.0015	13	11	5	0.6	10	DB152 ✳ 3CC2 ■●□□□⊙■ R
0.0018	13	11	5	0.6	10	DB182 ✳ 3CC2 ■●□□□⊙■ R
0.0022	13	11	5	0.6	10	DB222 ✳ 3CC2 ■●□□□⊙■ R
0.0022	13	12	6	0.6	10	DB222 ✳ 3CC3 ■●□□□⊙■ R
0.0027	13	11	5	0.6	10	DB272 ✳ 3CC2 ■●□□□⊙■ R
0.0027	13	12	6	0.6	10	DB272 ✳ 3CC3 ■●□□□⊙■ R
0.0027	13	13.5	6.5	0.6	10	DB272 ✳ 3CC45 ●□□□⊙■ R
0.0033	13	11	5	0.6	10	DB332 ✳ 3CC2 ■●□□□⊙■ R
0.0033	13	12	6	0.6	10	DB332 ✳ 3CC3 ■●□□□⊙■ R
0.0033	13	12.5	7	0.6	10	DB332 ✳ 3CC4 ■●□□□⊙■ R
0.0039	13	12	6	0.6	10	DB392 ✳ 3CC3 ■●□□□⊙■ R
0.0039	13	13.5	6.5	0.6	10	DB392 ✳ 3CC45 ●□□□⊙■ R
0.0039	13	12.5	7	0.6	10	DB392 ✳ 3CC4 ■●□□□⊙■ R
0.0047	13	12	6	0.6	10	DB472 ✳ 3CC3 ■●□□□⊙■ R

1600VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0047	13	13.5	6.5	0.6	10	DB472 ✳ 3CC45 ●□□□⊙■ R
0.0047	13	16	8	0.6	10	DB472 ✳ 3CC5 ■●□□□⊙■ R
0.0056	13	12.5	7	0.6	10	DB562 ✳ 3CC4 ■●□□□⊙■ R
0.0056	13	13.5	6.5	0.6	10	DB562 ✳ 3CC45 ●□□□⊙■ R
0.0056	13	16	8	0.6	10	DB562 ✳ 3CC5 ■●□□□⊙■ R
0.0068	13	12.5	7	0.6	10	DB682 ✳ 3CC4 ■●□□□⊙■ R
0.0068	13	16	8	0.6	10	DB682 ✳ 3CC5 ■●□□□⊙■ R
0.0082	13	16	8	0.6	10	DB822 ✳ 3CC5 ■●□□□⊙■ R
0.01	13	16	8	0.6	10	DB103 ✳ 3CC5 ■●□□□⊙■ R
0.0039	18	11	5	0.8	15	DB392 ✳ 3CD1 ■●□□□⊙■ R
0.0047	18	11	5	0.8	15	DB472 ✳ 3CD1 ■●□□□⊙■ R
0.0047	18	12	6	0.8	15	DB472 ✳ 3CD2 ■●□□□⊙■ R
0.0056	18	11	5	0.8	15	DB562 ✳ 3CD1 ■●□□□⊙■ R
0.0056	18	12	6	0.8	15	DB562 ✳ 3CD2 ■●□□□⊙■ R
0.0068	18	11	5	0.8	15	DB682 ✳ 3CD1 ■●□□□⊙■ R
0.0068	18	12	6	0.8	15	DB682 ✳ 3CD2 ■●□□□⊙■ R
0.0068	18	13	6.5	0.8	15	DB682 ✳ 3CD25 ●□□□⊙■ R
0.0082	18	11	5	0.8	15	DB822 ✳ 3CD1 ■●□□□⊙■ R
0.0082	18	12	6	0.8	15	DB822 ✳ 3CD2 ■●□□□⊙■ R
0.0082	18	13	6.5	0.8	15	DB822 ✳ 3CD25 ●□□□⊙■ R
0.0082	18	13.5	7.5	0.8	15	DB822 ✳ 3CD3 ■●□□□⊙■ R
0.01	18	12	6	0.8	15	DB103 ✳ 3CD2 ■●□□□⊙■ R
0.01	18	13	6.5	0.8	15	DB103 ✳ 3CD25 ●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DB103 ✳ 3CD3 ■●□□□⊙■ R
0.01	18	15	7	0.8	15	DB103 ✳ 3CD33 ●□□□⊙■ R
0.012	18	12	6	0.8	15	DB123 ✳ 3CD2 ■●□□□⊙■ R
0.012	18	13	6.5	0.8	15	DB123 ✳ 3CD25 ●□□□⊙■ R
0.012	18	13.5	7.5	0.8	15	DB123 ✳ 3CD3 ■●□□□⊙■ R
0.012	18	14.5	8.5	0.8	15	DB123 ✳ 3CD4 ■●□□□⊙■ R
0.015	18	13	6.5	0.8	15	DB153 ✳ 3CD25 ●□□□⊙■ R
0.015	18	13.5	7.5	0.8	15	DB153 ✳ 3CD3 ■●□□□⊙■ R
0.015	18	15	7	0.8	15	DB153 ✳ 3CD33 ●□□□⊙■ R
0.015	18	14.5	8.5	0.8	15	DB153 ✳ 3CD4 ■●□□□⊙■ R
0.015	18	17	8.5	0.8	15	DB153 ✳ 3CD42 ●□□□⊙■ R
0.018	18	13.5	7.5	0.8	15	DB183 ✳ 3CD3 ■●□□□⊙■ R
0.018	18	15	7	0.8	15	DB183 ✳ 3CD33 ●□□□⊙■ R
0.018	18	14.5	8.5	0.8	15	DB183 ✳ 3CD4 ■●□□□⊙■ R
0.018	18	16	10	0.8	15	DB183 ✳ 3CD5 ■●□□□⊙■ R
0.022	18	13.5	7.5	0.8	15	DB223 ✳ 3CD3 ■●□□□⊙■ R
0.022	18	14.5	8.5	0.8	15	DB223 ✳ 3CD4 ■●□□□⊙■ R
0.022	18	17	8.5	0.8	15	DB223 ✳ 3CD42 ●□□□⊙■ R
0.022	18	16	10	0.8	15	DB223 ✳ 3CD5 ■●□□□⊙■ R
0.022	18	18.5	11	0.8	15	DB223 ✳ 3CD6 ■●□□□⊙■ R
0.027	18	14.5	8.5	0.8	15	DB273 ✳ 3CD4 ■●□□□⊙■ R
0.027	18	17	8.5	0.8	15	DB273 ✳ 3CD42 ●□□□⊙■ R
0.027	18	17.5	10	0.8	15	DB273 ✳ 3CD56 ●□□□⊙■ R
0.027	18	18.5	11	0.8	15	DB273 ✳ 3CD6 ■●□□□⊙■ R
0.033	18	16	10	0.8	15	DB333 ✳ 3CD5 ■●□□□⊙■ R
0.033	18	17.5	10	0.8	15	DB333 ✳ 3CD56 ●□□□⊙■ R
0.033	18	18.5	11	0.8	15	DB333 ✳ 3CD6 ■●□□□⊙■ R
0.047	18	18.5	11	0.8	15	DB473 ✳ 3CD6 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1600VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.015	26.5	15	6	0.8	22.5	DB153 ✳ 3CE1 ■●□□□⊙■ R
0.022	26.5	15	6	0.8	22.5	DB223 ✳ 3CE1 ■●□□□⊙■ R
0.022	26.5	17	7	0.8	22.5	DB223 ✳ 3CE2 ■●□□□⊙■ R
0.027	26.5	15	6	0.8	22.5	DB273 ✳ 3CE1 ■●□□□⊙■ R
0.027	26.5	17	7	0.8	22.5	DB273 ✳ 3CE2 ■●□□□⊙■ R
0.027	26.5	17	8.5	0.8	22.5	DB273 ✳ 3CE3 ■●□□□⊙■ R
0.033	26.5	15	6	0.8	22.5	DB333 ✳ 3CE1 ■●□□□⊙■ R
0.033	26.5	17	7	0.8	22.5	DB333 ✳ 3CE2 ■●□□□⊙■ R
0.033	26.5	17	8.5	0.8	22.5	DB333 ✳ 3CE3 ■●□□□⊙■ R
0.039	26.5	17	7	0.8	22.5	DB393 ✳ 3CE2 ■●□□□⊙■ R
0.039	26.5	17	8.5	0.8	22.5	DB393 ✳ 3CE3 ■●□□□⊙■ R
0.039	26.5	19	10	0.8	22.5	DB393 ✳ 3CE4 ■●□□□⊙■ R
0.047	26.5	17	7	0.8	22.5	DB473 ✳ 3CE2 ■●□□□⊙■ R
0.047	26.5	17	8.5	0.8	22.5	DB473 ✳ 3CE3 ■●□□□⊙■ R
0.047	26.5	19	10	0.8	22.5	DB473 ✳ 3CE4 ■●□□□⊙■ R
0.047	26	20	11	0.8	22.5	DB473 ✳ 3CE5 ■●□□□⊙■ R
0.056	26.5	17	8.5	0.8	22.5	DB563 ✳ 3CE3 ■●□□□⊙■ R
0.056	26.5	19	10	0.8	22.5	DB563 ✳ 3CE4 ■●□□□⊙■ R
0.056	26	20	11	0.8	22.5	DB563 ✳ 3CE5 ■●□□□⊙■ R
0.068	26.5	19	10	0.8	22.5	DB683 ✳ 3CE4 ■●□□□⊙■ R
0.068	26	20	11	0.8	22.5	DB683 ✳ 3CE5 ■●□□□⊙■ R
0.068	26	21.5	12	0.8	22.5	DB683 ✳ 3CE6 ■●□□□⊙■ R
0.082	26.5	19	10	0.8	22.5	DB823 ✳ 3CE4 ■●□□□⊙■ R
0.082	26	20	11	0.8	22.5	DB823 ✳ 3CE5 ■●□□□⊙■ R
0.082	26	21.5	12	0.8	22.5	DB823 ✳ 3CE6 ■●□□□⊙■ R
0.047	30	17.5	10	0.8	27.5	DB473 ✳ 3CF0 ■●□□□⊙■ R
0.056	30	17.5	10	0.8	27.5	DB563 ✳ 3CF0 ■●□□□⊙■ R
0.068	30	17.5	10	0.8	27.5	DB683 ✳ 3CF0 ■●□□□⊙■ R
0.068	32	20	11	0.8	27.5	DB683 ✳ 3CF1 ■●□□□⊙■ R
0.068	32	22	13	0.8	27.5	DB683 ✳ 3CF2 ■●□□□⊙■ R
0.082	30	17.5	10	0.8	27.5	DB823 ✳ 3CF0 ■●□□□⊙■ R
0.082	32	20	11	0.8	27.5	DB823 ✳ 3CF1 ■●□□□⊙■ R
0.082	32	22	13	0.8	27.5	DB823 ✳ 3CF2 ■●□□□⊙■ R
0.1	32	20	11	0.8	27.5	DB104 ✳ 3CF1 ■●□□□⊙■ R
0.1	32	22	13	0.8	27.5	DB104 ✳ 3CF2 ■●□□□⊙■ R
0.1	32	25	15	0.8	27.5	DB104 ✳ 3CF3 ■●□□□⊙■ R
0.15	32	25	15	0.8	27.5	DB154 ✳ 3CF3 ■●□□□⊙■ R
0.15	32	30	18	0.8	27.5	DB154 ✳ 3CF4 ■●□□□⊙■ R
0.18	32	25	15	0.8	27.5	DB184 ✳ 3CF3 ■●□□□⊙■ R

2000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0033	18	11	5	0.8	15	DB332 ✳ 3DD1 ■●□□□⊙■ R
0.0039	18	11	5	0.8	15	DB392 ✳ 3DD1 ■●□□□⊙■ R
0.0047	18	12	6	0.8	15	DB472 ✳ 3DD2 ■●□□□⊙■ R
0.0056	18	12	6	0.8	15	DB562 ✳ 3DD2 ■●□□□⊙■ R
0.0068	18	12	6	0.8	15	DB682 ✳ 3DD2 ■●□□□⊙■ R
0.0082	18	12	6	0.8	15	DB822 ✳ 3DD2 ■●□□□⊙■ R

2000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.0082	18	13.5	7.5	0.8	15	DB822 ✳ 3DD3 ■●□□□⊙■ R
0.01	18	13	6.5	0.8	15	DB103 ✳ 3DD25 ●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DB103 ✳ 3DD3 ■●□□□⊙■ R
0.012	18	13.5	7.5	0.8	15	DB123 ✳ 3DD3 ■●□□□⊙■ R
0.012	18	14.5	8.5	0.8	15	DB123 ✳ 3DD4 ■●□□□⊙■ R
0.015	18	14.5	8.5	0.8	15	DB153 ✳ 3DD4 ■●□□□⊙■ R
0.015	18	17	8.5	0.8	15	DB153 ✳ 3DD42 ●□□□⊙■ R
0.018	18	17	8.5	0.8	15	DB183 ✳ 3DD42 ●□□□⊙■ R
0.018	18	17.5	10	0.8	15	DB183 ✳ 3DD56 ●□□□⊙■ R
0.022	18	16	10	0.8	15	DB223 ✳ 3DD5 ■●□□□⊙■ R
0.022	18	18.5	11	0.8	15	DB223 ✳ 3DD6 ■●□□□⊙■ R
0.027	18	17.5	10	0.8	15	DB273 ✳ 3DD56 ●□□□⊙■ R
0.015	26.5	15	6	0.8	22.5	DB153 ✳ 3CE1 ■●□□□⊙■ R
0.022	26.5	15	6	0.8	22.5	DB223 ✳ 3DE1 ■●□□□⊙■ R
0.022	26.5	17	7	0.8	22.5	DB223 ✳ 3DE2 ■●□□□⊙■ R
0.027	26.5	17	7	0.8	22.5	DB273 ✳ 3DE2 ■●□□□⊙■ R
0.027	26.5	17	8.5	0.8	22.5	DB273 ✳ 3DE3 ■●□□□⊙■ R
0.033	26.5	17	8.5	0.8	22.5	DB333 ✳ 3DE3 ■●□□□⊙■ R
0.039	26.5	17	8.5	0.8	22.5	DB393 ✳ 3DE3 ■●□□□⊙■ R
0.039	26.5	19	10	0.8	22.5	DB393 ✳ 3DE4 ■●□□□⊙■ R
0.047	26.5	19	10	0.8	22.5	DB473 ✳ 3DE4 ■●□□□⊙■ R
0.056	26.5	19	10	0.8	22.5	DB563 ✳ 3DE4 ■●□□□⊙■ R
0.068	26	20	11	0.8	22.5	DB683 ✳ 3DE5 ■●□□□⊙■ R
0.082	26	21.5	12	0.8	22.5	DB823 ✳ 3DE6 ■●□□□⊙■ R
0.039	30	17.5	10	0.8	27.5	DB393 ✳ 3DF0 ■●□□□⊙■ R
0.047	30	17.5	10	0.8	27.5	DB473 ✳ 3DF0 ■●□□□⊙■ R
0.047	32	20	11	0.8	27.5	DB473 ✳ 3DF1 ■●□□□⊙■ R
0.056	32	20	11	0.8	27.5	DB563 ✳ 3DF1 ■●□□□⊙■ R
0.068	32	20	11	0.8	27.5	DB683 ✳ 3DF1 ■●□□□⊙■ R
0.068	32	22	13	0.8	27.5	DB683 ✳ 3DF2 ■●□□□⊙■ R
0.082	32	22	13	0.8	27.5	DB823 ✳ 3DF2 ■●□□□⊙■ R
0.082	32	25	15	0.8	27.5	DB823 ✳ 3DF3 ■●□□□⊙■ R
0.1	32	25	15	0.8	27.5	DB104 ✳ 3DF3 ■●□□□⊙■ R

备注：

1. “ ✳ ” 表示容量误差。
2. "■"表示内部特征码。
3. “ ● ” 表示引線加工形式代码。
4. "□□□"表示引線长度代码。
5. “ ⊙ ” 表示引線长度误差代码。
6. "R"=ROHS符合型;
   "H"=Halogen-Free无鹵型.
7. "# "当额定电压为1250Vdc时 ,第7～8位是3V。

1. "✳"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ：“ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”，“ 200 ”，“ 035 ”……
5. "⊙"=Lead Length Tolerance Code ：“ ±0.3 ”，“ ±0.5，“ ±1 ”……
6. "R"=ROHS compliant.
   "H"=Halogen-Free compliant.
7. "# "when the rated voltage is 1250Vdc ,the digit 7~8 is 3V .

外形尺寸 Dimensions(mm)

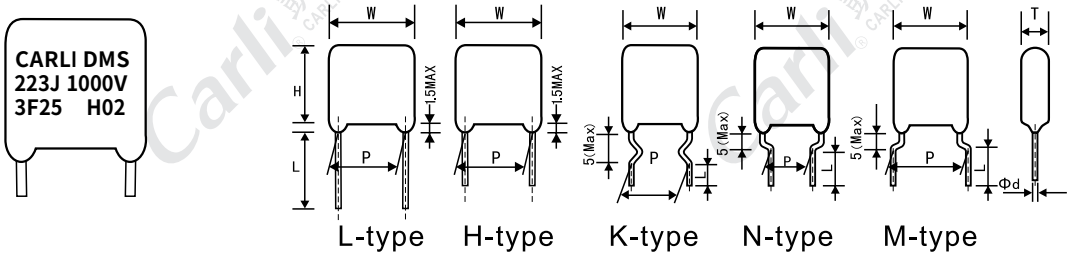
2500VDC						
CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.0033	18	11	5	0.8	15	DB332 ✳ 3DD1 ■●□□□⊙■ R
0.0047	18	12	6	0.8	15	DB472 ✳ 3DD2 ■●□□□⊙■ R
0.0056	18	12	6	0.8	15	DB562 ✳ 3DD2 ■●□□□⊙■ R
0.0068	18	12	6	0.8	15	DB682 ✳ 3DD2 ■●□□□⊙■ R
0.0082	18	13.5	7.5	0.8	15	DB822 ✳ 3DD3 ■●□□□⊙■ R
0.01	18	13.5	7.5	0.8	15	DB103 ✳ 3DD3 ■●□□□⊙■ R
0.012	18	14.5	8.5	0.8	15	DB123 ✳ 3DD4 ■●□□□⊙■ R
0.015	18	17	8.5	0.8	15	DB153 ✳ 3DD42 ●□□□⊙■ R
0.018	18	17.5	10	0.8	15	DB183 ✳ 3DD56 ●□□□⊙■ R
0.022	18	18.5	11	0.8	15	DB223 ✳ 3DD6 ■●□□□⊙■ R
0.015	26.5	15	6	0.8	22.5	DB153 ✳ 3CE1 ■●□□□⊙■ R
0.022	26.5	17	7	0.8	22.5	DB223 ✳ 3DE2 ■●□□□⊙■ R
0.027	26.5	17	8.5	0.8	22.5	DB273 ✳ 3DE3 ■●□□□⊙■ R
0.033	26.5	17	8.5	0.8	22.5	DB333 ✳ 3DE3 ■●□□□⊙■ R
0.039	26.5	19	10	0.8	22.5	DB393 ✳ 3DE4 ■●□□□⊙■ R
0.047	26	20	11	0.8	22.5	DB473 ✳ 3DE5 ■●□□□⊙■ R
0.056	26	21.5	12	0.8	22.5	DB563 ✳ 3DE6 ■●□□□⊙■ R
0.068	26	22	13.5	0.8	22.5	DB683 ✳ 3DE7 ■●□□□⊙■ R
0.039	30	17.5	10	0.8	27.5	DB393 ✳ 3DF0 ■●□□□⊙■ R
0.047	32	20	11	0.8	27.5	DB473 ✳ 3DF1 ■●□□□⊙■ R
0.056	32	20	11	0.8	27.5	DB563 ✳ 3DF1 ■●□□□⊙■ R
0.068	32	22	13	0.8	27.5	DB683 ✳ 3DF2 ■●□□□⊙■ R
0.082	32	25	15	0.8	27.5	DB823 ✳ 3DF3 ■●□□□⊙■ R
0.1	32	25	15	0.8	27.5	DB104 ✳ 3DF3 ■●□□□⊙■ R

备注：

1. “ ✳ ”表示容量误差。
2. "■"表示内部特征码。
3. “ ● ”表示引線加工形式代码。
4. "□□□"表示引線长度代码。
5. “ ⊙ ”表示引線长度误差代码。
6. "R"=ROHS符合型;
   "H"=Halogen-Free无鹵型.
7. "# "当额定电压为1250Vdc时 ,第7～8位是3V。

1. "✳"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3. "●"=Lead Form Code ：“ L","H","K","M","N"……
4. "□□□"=Lead Length Code ：“ 270 ”, “ 200 ”, “ 035 ”……
5. "⊙"=Lead Length Tolerance Code ：“ ±0.3 ”, “ ±0.5, “ ±1 ”……
6. "R"=ROHS compliant.
   "H"=Halogen-Free compliant.
7. "# "when the rated voltage is 1250Vdc ,the digit 7~8 is 3V .

双面金属化聚丙烯膜电容器（串联浸渍型）
Double Sided Metallized Polypropylene Film Capacitor (Series & Dipped-Type)



特点

- 双面金属化聚丙烯膜，串联无感式捲绕结构
- 高频损耗小
- 内部温升低
- 阻燃环氧树脂粉末涂装

Features

- Double sided metallized polypropylene film , series non-wound construction
- Low loss at high frequency
- Small inherent temperature rise
- Flame retardent epoxy powder coating

典型应用

- 广泛用於高压高频脉冲电路中
- 电视机偏转电路（S-校正和行逆程波形）和显示器中
- 电子镇流器和节能灯中
- 吸收和SCR整流电路

Applications

- Widely used in high voltage and frequency and pulse circuit
- Deflection circuits in TV sets (s -correction and fly-back tuning) and monitors
- Lamp capacitor for electronic ballast and compact lamps
- Snubber and SCR commutating circuits

技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)				
气候类别/Climatic Category	40/105/56				
额定温度/Rated Temperature	85°C				
工作温度范围 /Operating Temperature Range	-40°C ~+105°C. (+85°C~+105°C:derating factor 1.25%per°C for UR(dc)				
额定电压/Rated voltage	630Vdc,800Vdc,1000Vdc,1200Vdc,1600Vdc,2000Vdc,2500Vdc				
容量范围/Capacitance range	0.001μF~0.33μF				
容差/Capacitance tolerance	±5% (J),±10% (K)				
耐电压/Voltage Proof	1.4 UR , 2s				
损失角/Dissapation factor	≤0.1% (1KHz at 20~25°C)				
绝缘阻抗/Insulation Resistance	≥50 000MΩ,C_R≤0.33μF ≥15 000 s,C_R > 0.33μF,(at 100VDC, 1min ,20~25°C,50%~55%RH)				
最大脉冲爬升速率Maximum Pulse Rise Time(dV/dt): 若实际工作电压U比额定电压U_R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U_R/U. If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt.In thiscase,the maximum allowed dV/dt is obtain by multiplyingthe right value with U_R/U.	U_R(V)	dV/dt(V/μs)			
		P=10	P=15.0	P=22.5	P=27.5
	630/800	1200	900	400	200
	1000/1200	2200	2000	800	400
	1600	--	4500	1800	900
	2000	--	9500	4500	--
	2500	--	10000	5000	--

外形尺寸 Dimensions(mm)

630VDC

CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.001	13	9	6	0.6	10	MS102 ✳ 2J10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	MS122 ✳ 2J10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	MS152 ✳ 2J10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	MS182 ✳ 2J10 ■●□□□⊙■ R
0.0022	13	9	6	0.6	10	MS222 ✳ 2J10 ■●□□□⊙■ R
0.0027	13	9	6	0.6	10	MS272 ✳ 2J10 ■●□□□⊙■ R
0.0033	13	9	6	0.6	10	MS332 ✳ 2J10 ■●□□□⊙■ R
0.0039	13	9	6	0.6	10	MS392 ✳ 2J10 ■●□□□⊙■ R
0.0047	13	9	6	0.6	10	MS472 ✳ 2J10 ■●□□□⊙■ R
0.0056	13	9	6	0.6	10	MS562 ✳ 2J10 ■●□□□⊙■ R
0.0068	13	11	7	0.6	10	MS682 ✳ 2J10 ■●□□□⊙■ R
0.0082	13	11	7	0.6	10	MS822 ✳ 2J10 ■●□□□⊙■ R
0.01	13	12	8	0.6	10	MS103 ✳ 2J10 ■●□□□⊙■ R
0.012	18	11	7	0.8	15	MS123 ✳ 2J15 ■●□□□⊙■ R
0.015	18	11	7	0.8	15	MS153 ✳ 2J15 ■●□□□⊙■ R
0.018	18	11	7	0.8	15	MS183 ✳ 2J15 ■●□□□⊙■ R
0.022	18	11	7	0.8	15	MS223 ✳ 2J15 ■●□□□⊙■ R
0.027	18	12	8	0.8	15	MS273 ✳ 2J15 ■●□□□⊙■ R
0.033	18	12	8	0.8	15	MS333 ✳ 2J15 ■●□□□⊙■ R
0.039	18	13	8.5	0.8	15	MS393 ✳ 2J15 ■●□□□⊙■ R
0.047	18	13.5	9.5	0.8	15	MS473 ✳ 2J15 ■●□□□⊙■ R
0.056	18	14.5	10.5	0.8	15	MS563 ✳ 2J15 ■●□□□⊙■ R
0.068	18	14.5	10.5	0.8	15	MS683 ✳ 2J15 ■●□□□⊙■ R
0.082	18	14.5	10.5	0.8	15	MS823 ✳ 2J15 ■●□□□⊙■ R
0.1	18	16	12	0.8	15	MS104 ✳ 2J15 ■●□□□⊙■ R
0.12	18	18.5	13	0.8	15	MS124 ✳ 2J15 ■●□□□⊙■ R
0.15	26	17	10.5	0.8	22.5	MS154 ✳ 2J22 ■●□□□⊙■ R
0.22	26	20	13	0.8	22.5	MS224 ✳ 2J22 ■●□□□⊙■ R

800VDC

CAP (μF)	DIMENSIONS 尺寸 (mm)					CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.001	13	9	6	0.6	10	MS102 ✳ 2K10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	MS122 ✳ 2K10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	MS152 ✳ 2K10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	MS182 ✳ 2K10 ■●□□□⊙■ R
0.0022	13	9	6	0.6	10	MS222 ✳ 2K10 ■●□□□⊙■ R
0.0027	13	9	6	0.6	10	MS272 ✳ 2K10 ■●□□□⊙■ R
0.0033	13	11	7	0.6	10	MS332 ✳ 2K10 ■●□□□⊙■ R
0.0039	13	11	7	0.6	10	MS392 ✳ 2K10 ■●□□□⊙■ R
0.0047	13	12	8	0.6	10	MS472 ✳ 2K10 ■●□□□⊙■ R
0.0056	13	12	8	0.6	10	MS562 ✳ 2K10 ■●□□□⊙■ R
0.0068	13	12.5	9	0.6	10	MS682 ✳ 2K10 ■●□□□⊙■ R
0.0082	13	12.5	9	0.6	10	MS822 ✳ 2K10 ■●□□□⊙■ R
0.01	18	11	7	0.8	15	MS103 ✳ 2K15 ■●□□□⊙■ R
0.012	18	11	7	0.8	15	MS123 ✳ 2K15 ■●□□□⊙■ R
0.015	18	11	7	0.8	15	MS153 ✳ 2K15 ■●□□□⊙■ R
0.018	18	12	8	0.8	15	MS183 ✳ 2K15 ■●□□□⊙■ R
0.022	18	12	8	0.8	15	MS223 ✳ 2K15 ■●□□□⊙■ R
0.027	18	13.5	9.5	0.8	15	MS273 ✳ 2K15 ■●□□□⊙■ R
0.033	18	13.5	9.5	0.8	15	MS333 ✳ 2K15 ■●□□□⊙■ R
0.039	18	14.5	10.5	0.8	15	MS393 ✳ 2K15 ■●□□□⊙■ R
0.047	18	14.5	10.5	0.8	15	MS473 ✳ 2K15 ■●□□□⊙■ R
0.056	18	16	12	0.8	15	MS563 ✳ 2K15 ■●□□□⊙■ R
0.068	18	16	12	0.8	15	MS683 ✳ 2K15 ■●□□□⊙■ R
0.082	18	18.5	13	0.8	15	MS823 ✳ 2K15 ■●□□□⊙■ R
0.1	26	17	10.5	0.8	22.5	MS104 ✳ 2K22 ■●□□□⊙■ R
0.12	26	19	12	0.8	22.5	MS124 ✳ 2K22 ■●□□□⊙■ R
0.15	26	20	13	0.8	22.5	MS154 ✳ 2K22 ■●□□□⊙■ R
0.22	26	21.5	14	0.8	22.5	MS224 ✳ 2K22 ■●□□□⊙■ R

Carli 凱勵集團 CARLI GROUP LIMITED

外形尺寸 Dimensions(mm)

1000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	9	6	0.6	10	MS102 ✶ 3A10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	MS122 ✶ 3A10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	MS152 ✶ 3A10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	MS182 ✶ 3A10 ■●□□□⊙■ R
0.0022	13	9	6	0.6	10	MS222 ✶ 3A10 ■●□□□⊙■ R
0.0027	13	11	7	0.6	10	MS272 ✶ 3A10 ■●□□□⊙■ R
0.0033	13	11	7	0.6	10	MS332 ✶ 3A10 ■●□□□⊙■ R
0.0039	13	12	8	0.6	10	MS392 ✶ 3A10 ■●□□□⊙■ R
0.0047	13	12	8	0.6	10	MS472 ✶ 3A10 ■●□□□⊙■ R
0.0056	13	12.5	9	0.6	10	MS562 ✶ 3A10 ■●□□□⊙■ R
0.0068	13	12.5	9	0.6	10	MS682 ✶ 3A10 ■●□□□⊙■ R
0.0082	18	11	7	0.8	15	MS822 ✶ 3A15 ■●□□□⊙■ R
0.01	18	11	7	0.8	15	MS103 ✶ 3A15 ■●□□□⊙■ R
0.012	18	11	7	0.8	15	MS123 ✶ 3A15 ■●□□□⊙■ R
0.015	18	12	8	0.8	15	MS153 ✶ 3A15 ■●□□□⊙■ R
0.018	18	12	8	0.8	15	MS183 ✶ 3A15 ■●□□□⊙■ R
0.022	18	13	8.5	0.8	15	MS223 ✶ 3A15 ■●□□□⊙■ R
0.027	18	13.5	9.5	0.8	15	MS273 ✶ 3A15 ■●□□□⊙■ R
0.033	18	14.5	10.5	0.8	15	MS333 ✶ 3A15 ■●□□□⊙■ R
0.039	18	16	12	0.8	15	MS393 ✶ 3A15 ■●□□□⊙■ R
0.047	18	17	10.5	0.8	15	MS473 ✶ 3A15 ■●□□□⊙■ R
0.056	18	18.5	13	0.8	15	MS563 ✶ 3A15 ■●□□□⊙■ R
0.068	26	17	10.5	0.8	22.5	MS683 ✶ 3A22 ■●□□□⊙■ R
0.082	26	17	10.5	0.8	22.5	MS823 ✶ 3A22 ■●□□□⊙■ R
0.1	26	19	12	0.8	22.5	MS104 ✶ 3A22 ■●□□□⊙■ R
0.12	26	20	13	0.8	22.5	MS124 ✶ 3A22 ■●□□□⊙■ R
0.15	26	21.5	14	0.8	22.5	MS154 ✶ 3A22 ■●□□□⊙■ R
0.22	26	25	18.5	0.8	22.5	MS224 ✶ 3A22 ■●□□□⊙■ R
0.22	32	25	17	0.8	27.5	MS224 ✶ 3A27 ■●□□□⊙■ R
0.33	32	28	20	0.8	27.5	MS334 ✶ 3A27 ■●□□□⊙■ R

1200VDC/1250VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	9	6	0.6	10	MS102 ✶ 3B10 ■●□□□⊙■ R
0.0012	13	9	6	0.6	10	MS122 ✶ 3B10 ■●□□□⊙■ R
0.0015	13	9	6	0.6	10	MS152 ✶ 3B10 ■●□□□⊙■ R
0.0018	13	9	6	0.6	10	MS182 ✶ 3B10 ■●□□□⊙■ R
0.0022	13	11	7	0.6	10	MS222 ✶ 3B10 ■●□□□⊙■ R
0.0027	13	11	7	0.6	10	MS272 ✶ 3B10 ■●□□□⊙■ R
0.0033	13	12	8	0.6	10	MS332 ✶ 3B10 ■●□□□⊙■ R
0.0039	13	12.5	9	0.6	10	MS392 ✶ 3B10 ■●□□□⊙■ R
0.0047	13	12.5	9	0.8	10	MS472 ✶ 3B10 ■●□□□⊙■ R
0.0056	18	11	7	0.8	15	MS562 ✶ 3B15 ■●□□□⊙■ R
0.0068	18	11	7	0.8	15	MS682 ✶ 3B15 ■●□□□⊙■ R
0.0082	18	11	7	0.8	15	MS822 ✶ 3B15 ■●□□□⊙■ R
0.01	18	11	7	0.8	15	MS103 ✶ 3B15 ■●□□□⊙■ R
0.012	18	12	8	0.8	15	MS123 ✶ 3B15 ■●□□□⊙■ R
0.015	18	12	8	0.8	15	MS153 ✶ 3B15 ■●□□□⊙■ R
0.018	18	13.5	9.5	0.8	15	MS183 ✶ 3B15 ■●□□□⊙■ R
0.022	18	13.5	9.5	0.8	15	MS223 ✶ 3B15 ■●□□□⊙■ R
0.027	18	17	10.5	0.8	15	MS273 ✶ 3B15 ■●□□□⊙■ R
0.033	18	17	10.5	0.8	15	MS333 ✶ 3B15 ■●□□□⊙■ R
0.039	18	18.5	13	0.8	15	MS393 ✶ 3B15 ■●□□□⊙■ R
0.047	18	18.5	13	0.8	15	MS473 ✶ 3B15 ■●□□□⊙■ R
0.056	26	17	10.5	0.8	22.5	MS563 ✶ 3B22 ■●□□□⊙■ R
0.068	26	19	12	0.8	22.5	MS683 ✶ 3B22 ■●□□□⊙■ R
0.082	26	19	12	0.8	22.5	MS823 ✶ 3B22 ■●□□□⊙■ R
0.1	26	20	13	0.8	22.5	MS104 ✶ 3B22 ■●□□□⊙■ R
0.12	26	21.5	14	0.8	22.5	MS124 ✶ 3B22 ■●□□□⊙■ R
0.15	26	25	18.5	0.8	22.5	MS154 ✶ 3B22 ■●□□□⊙■ R

外形尺寸 Dimensions(mm)

1600VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	13	11	7	0.6	10	MS102＊3C10 ■●□□□⊙■ R
0.0012	13	12	8	0.6	10	MS122＊3C10 ■●□□□⊙■ R
0.0015	13	12	8	0.6	10	MS152＊3C10 ■●□□□⊙■ R
0.0018	13	12.5	9	0.6	10	MS182＊3C10 ■●□□□⊙■ R
0.0022	13	12.5	9	0.6	10	MS222＊3C10 ■●□□□⊙■ R
0.0027	13	16	10	0.6	10	MS272＊3C10 ■●□□□⊙■ R
0.0033	13	16	10	0.6	10	MS332＊3C10 ■●□□□⊙■ R
0.0039	18	11	7	0.8	15	MS392＊3C15 ■●□□□⊙■ R
0.0047	18	11	7	0.8	15	MS472＊3C15 ■●□□□⊙■ R
0.0056	18	12	8	0.8	15	MS562＊3C15 ■●□□□⊙■ R
0.0068	18	13	8.5	0.8	15	MS682＊3C15 ■●□□□⊙■ R
0.0082	18	13.5	9.5	0.8	15	MS822＊3C15 ■●□□□⊙■ R
0.01	18	13.5	9.5	0.8	15	MS103＊3C15 ■●□□□⊙■ R
0.012	18	14.5	10.5	0.8	15	MS123＊3C15 ■●□□□⊙■ R
0.015	18	17	10.5	0.8	15	MS153＊3C15 ■●□□□⊙■ R
0.018	18	16	10.5	0.8	15	MS183＊3C15 ■●□□□⊙■ R
0.022	18	18.5	13	0.8	15	MS223＊3C15 ■●□□□⊙■ R
0.027	26	17	10.5	0.8	22.5	MS273＊3C22 ■●□□□⊙■ R
0.033	26	19	12	0.8	22.5	MS333＊3C22 ■●□□□⊙■ R
0.039	26	19	12	0.8	22.5	MS393＊3C22 ■●□□□⊙■ R
0.047	26	20	13	0.8	22.5	MS473＊3C22 ■●□□□⊙■ R
0.056	26	21.5	14	0.8	22.5	MS563＊3C22 ■●□□□⊙■ R

2000VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	18	11	7	0.8	15	MS102＊3D15 ■●□□□⊙■ R
0.0012	18	11	7	0.8	15	MS122＊3D15 ■●□□□⊙■ R
0.0015	18	11	7	0.8	15	MS152＊3D15 ■●□□□⊙■ R
0.0018	18	12	8	0.8	15	MS182＊3D15 ■●□□□⊙■ R
0.0022	18	12	8	0.8	15	MS222＊3D15 ■●□□□⊙■ R
0.0027	18	13	8.5	0.8	15	MS272＊3D15 ■●□□□⊙■ R
0.0033	18	13.5	9.5	0.8	15	MS332＊3D15 ■●□□□⊙■ R
0.0039	18	13.5	9.5	0.8	15	MS392＊3D15 ■●□□□⊙■ R
0.0047	18	14.5	10.5	0.8	15	MS472＊3D15 ■●□□□⊙■ R
0.0056	18	17	10.5	0.8	15	MS562＊3D15 ■●□□□⊙■ R
0.0068	18	16	12	0.8	15	MS682＊3D15 ■●□□□⊙■ R
0.0082	18	18.5	13	0.8	15	MS822＊3D15 ■●□□□⊙■ R
0.01	18	18.5	13	0.8	15	MS103＊3D15 ■●□□□⊙■ R
0.012	26	17	10.5	0.8	22.5	MS123＊3D22 ■●□□□⊙■ R
0.015	26	19	12	0.8	22.5	MS153＊3D22 ■●□□□⊙■ R
0.018	26	20	13	0.8	22.5	MS183＊3D22 ■●□□□⊙■ R
0.022	26	21.5	14	0.8	22.5	MS223＊3D22 ■●□□□⊙■ R
0.027	32	22	15	0.8	27.5	MS273＊3D27 ■●□□□⊙■ R
0.033	32	22	15	0.8	27.5	MS333＊3D27 ■●□□□⊙■ R
0.039	32	25	17	0.8	27.5	MS393＊3D27 ■●□□□⊙■ R
0.047	32	25	17	0.8	27.5	MS473＊3D27 ■●□□□⊙■ R
0.068	32	30	20	0.8	27.5	MS683＊3D27 ■●□□□⊙■ R

2500VDC

CAP (μF)	DIMENSIONS 尺寸 (mm) W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	CARLI P/N
0.001	18	11	7	0.8	15	MS102＊3E15 ■●□□□⊙■ R
0.0012	18	11	7	0.8	15	MS122＊3E15 ■●□□□⊙■ R
0.0015	18	12	8	0.8	15	MS152＊3E15 ■●□□□⊙■ R
0.0018	18	12	8	0.8	15	MS182＊3E15 ■●□□□⊙■ R
0.0022	18	12	8	0.8	15	MS222＊3E15 ■●□□□⊙■ R
0.0027	18	13.5	9.5	0.8	15	MS272＊3E15 ■●□□□⊙■ R
0.0033	18	14.5	10.5	0.8	15	MS332＊3E15 ■●□□□⊙■ R
0.0039	18	17	10.5	0.8	15	MS392＊3E15 ■●□□□⊙■ R
0.0047	18	16	12	0.8	15	MS472＊3E15 ■●□□□⊙■ R
0.0056	18	18.5	13	0.8	15	MS562＊3E15 ■●□□□⊙■ R
0.0068	18	18.5	13	0.8	15	MS682＊3E15 ■●□□□⊙■ R
0.0082	26	17	10.5	0.8	22.5	MS822＊3E22 ■●□□□⊙■ R
0.01	26	19	12	0.8	22.5	MS103＊3E22 ■●□□□⊙■ R
0.012	26	19	12	0.8	22.5	MS123＊3E22 ■●□□□⊙■ R
0.015	26	20	13	0.8	22.5	MS153＊3E22 ■●□□□⊙■ R
0.018	32	20	13	0.8	27.5	MS183＊3E27 ■●□□□⊙■ R
0.022	32	22	15	0.8	22.5	MS223＊3E27 ■●□□□⊙■ R
0.033	32	25	17	0.8	27.5	MS333＊3E27 ■●□□□⊙■ R
0.047	32	28	20	0.8	27.5	MS473＊3E27 ■●□□□⊙■ R

备注：

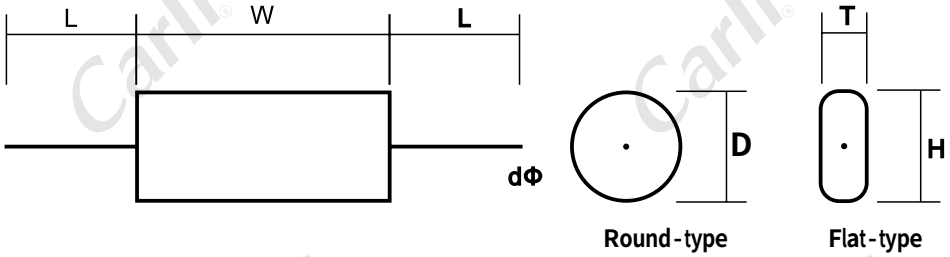
1.“＊”表示容量误差。
2."■"表示内部特征码。
3.“●”表示引線加工形式代码。
4."□□□"表示引線长度代码。
5.“⊙”表示引線长度误差代码。
6."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.
7."#"=当额定电压为1250Vdc时，第7~8位是3V。

1."＊"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3."●"=Lead Form Code ：“L","H","K","M","N"……
4."□□□"=Lead Length Code ：“270”，“200”，“035”……
5."⊙"=Lead Length Tolerance Code ：“±0.3”，“±0.5，“±1”……
6."R"=ROHS compliant.
"H"=Halogen-Free compliant.
7."#"=When the rated voltage is 1250Vdc,the digit 7~8 is 3v.

MPT/MPA
CBB20

Carli 凱勵集團 CARLI GROUP LIMITED

金属化聚丙烯膜电容器
Metallized polypropylene film capacitor



特点
- 金属化聚丙烯膜，无感捲绕结构
- 轴向引出，胶带包裹，阻燃型环氧树脂封装
- 体积小、重量轻、自愈性能优異
- 低噪声

Features
- Metallized Polypropylene film , Non-inductive construction
- Axial lead ,tape Wrapped , sealed with flame retardant epoxy resin
- Small size,light weight,excellent self-healing property
- Low noise

典型应用
- 温度补偿电路
- 定时，振盪迴路
- 功率校正，开关电源藕合用
- AC滤波用

Applications
- Temperature compensation circuits
- Timing,oscillator circuit
- Power factor correction and coupling capacitor in SMPS application
- AC filter capacitor

技术要求specifications

电容器类别 Class	MPT /MPA(DC)
引用标准 Reference standard	GB/T 10190(IEC60384-16)
气候类别 Climatic category	40/85/21
额定温度 Rated temperature	+85℃
工作温度范围 Operating Temperature Range	-40℃ - +105℃. (只适用DC电压产品) +85℃~+105℃:derating factor 1.25%per℃ for R.V(DC)
额定电压 Rated voltage	250Vdc , 400Vdc, 630Vdc
容量范围 Capacitance range	0.033μF~4.7μF
容量偏差 Capacitance tolerance	±5% (J), ±10%(K)
损失角 Dissapation factor	≤0.1 % (1KHz at 20~25℃)
耐电压 Voltage Proof	1.4*U_R , 2s
绝缘电阻 Insulation Resistance	≥50, 000MΩ, C_R≤0.33μF ≥15, 000 s, C_R > 0.33μF (20℃,100v,1min,50%~55%RH)

电容器类别 Class	MPT,MPA(AC)					
引用标准 Reference standard	IEC60252-1					
气候类别 Climatic category	25/85/21					
额定电压 Rated voltage (VAC)	150V-250V	300V	350V	400V	450V	500V
容量范围 Capacitance range	0.47~50	0.47~50	0.47~35	0.47~27	0.47~20	0.47~15
容量偏差 Capacitance tolerance	±5% (J), ±10%(K),±20% (M),+10~-0% (T),+10~-5%(U)					
损失角 Dissapation factor	≤0.2 % (1KHz at 20~25℃)					
耐电压 Voltage Proof	TT: 1.75*U_R , 2s ,TC:2000Vac/60s					
绝缘电阻 Insulation Resistance	≥ 1000MΩ · μF (20℃,100V,1min,50%~55%RH)					

安全认证/Safety approvals

Body(机构)	Approved Standard	note
UL	UL810,Construction only	E465486
CUL	C22.2 No.190-M1985	E465486

一 DC voltage Product Code System DC 产品代码说明(MPA、MPT、)

For example：The part number,comprising 18 digits, is formed as follows.

举例：产品料号由18位数位组成，如下：

P	T	1	0	5	K	2	E	2	7	9	L	2	7	0	D	9	R
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

数位1~2: 型号代码
MPT(Code PT)=CBB20, MPA(Code PA)

数位 3~5: 容值代码
举例:
105 =10*10^{5}pF= 1uF

数位 6: 容量偏差代码
J=±5%,K=±10%,M=±20%

数位 7~8: 额定电压代码
2A=100Vdc,2E=250Vdc, 2G=400Vdc,2J=630Vdc

数位 9~10: 胶带宽度代码
27=27 mm

数位11和17: 型号系列码
内部特征码

数位 12~16: 引線长度和误差代码
L270D= 腳长270mm ,误差 :+/-1 mm

数字 18: RoHS or HF符合性代码
"H" 符合无鹵
"R" 符合RoHS .

Digit 1~2: Type Code
MPT(Code PT)=CBB20, MPA(Code PA)

Digit 3~5: Capacitance Value Code
For examples:
105 =10*10^{5}pF= 1uF

Digit 6: Capacitance Tolerance Code
J=±5%,K=±10%,M=±20%

Digit 7~8: Rated Voltage Code
2A=100Vdc,2E=250Vdc, 2G=400Vdc,2J=630Vdc

Digit 9~10: Wraped Tape wight code Expressed in cm
27=27 mm

Digit 11 and 17: Type Series Code
Internal use

Digit 12 to 16 : Lead length and tolerance code
L270D= lead length 270mm ,tolerance :+/-1 mm

Digit 18: RoHS or HF Compliance Type Code
"H" Halogen-Free compliant
"R" ROHS compliant

二、AC voltage Product Code System AC电压产品代码说明(MPT、MPA、)

For example：The part number,comprising 19 digits, is formed as follows.

举例：产品料号由19位数位组成，如下：

*	*	*	P	T	1	1	0	5	K	2	5	0	A	L	2	6	0	0
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

数位1~3: 内部代码

数位 4~5: 型式代码
MPT(Code PT)=CBB20, MPA(Code PA)

数位 6: 芯子数代码

数位 7~8: 容量代码
举例:
105 =10*10^5 pF=10*10^2 nF= 1.0uF

数位 10: 误差代码
±5% (J), ±10% (K),+10~-0% (T),+10~-5%(U)

数位 11-14: 额定电压代码
250A=250Vac, 400A= 400Vac ， 400D= 450Vdc

数位15-17: 胶带宽度代码
L26=26mm

数位18-19: 设计代码

Digit 1~3: Internal Code

Digit 4~5: Type Series Code
MPT(Code PT)=CBB20, MPA(Code PA)

Digit 6: Element Quantity Code

Digit 7~9: Capacitance Value Code
For examples:
105 =10*10^5 pF=10*10^2 nF= 1.0uF

Digit 10: Capacitance Tolerance Code
±5% (J), ±10% (K),+10~-0% (T),+10~-5%(U)

Digit 11-14: Rated Voltage Code
250A=250Vac, 400A= 400Vac ， 400D= 450Vdc

Digit 15-17: Tape length Code
L26=26mm

Digit 18-19: Design Code

外形尺寸 Dimensions(mm)

MPT-150~250VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)	
	L (mm)	D (mm)
0.47	35	9.0
1	35	9.0
1.5	35	10.5
2	35	11.5
2.2	35	12.0
2.5	35	13.0
3	35	14.0
3.5	35	15.0
4	35	15.5
4.5	35	17.0
5	35	17.5
3	39	13.0
3.5	39	13.5
4	39	14.5
4.5	39	15.5
4.7	39	15.5
5	39	16.0
5.5	39	16.5
6	39	17.5
6.5	39	18.0
7	39	18.5
7.5	39	19.0
8	39	19.5
8.5	39	20.5
9	39	21.0
9.5	39	21.5
10	39	22.0
8	49	17.0
8.5	49	17.5
9	49	18.0
9.5	49	18.5
10	49	19.0
12	49	20.5
15	49	22.5
18	49	24.5
20	49	26.0
22	49	27.0
25	49	29.0
15	59	20.5
18	59	22.0
20	59	23.0
22	59	24.0
25	59	25.5
28	59	27.0
30	59	28.0
33	59	29.0
35	59	30.0
38	59	31.0
40	59	32.0
45	59	33.5
50	59	35.5

MPT-300VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)	
	L (mm)	D (mm)
0.47	35	9.0
1	35	10.5
1.5	35	12.5
2	35	14.0
2.2	35	14.5
2.5	35	15.5
3	35	17.0
3.5	35	18.0
4	35	19.0
4.5	35	20.5
5	35	21.5
3	39	15.5
3.5	39	16.5
4	39	17.5
4.5	39	18.5
4.7	39	19.0
5	39	19.5
5.5	39	20.5
6	39	21.0
6.5	39	22.0
7	39	23.0
7.5	39	23.5
8	39	24.0
8.5	39	25.0
9	39	26.0
9.5	39	26.5
10	39	27.0
8	49	20.5
8.5	49	21.5
9	49	22.0
9.5	49	22.5
10	49	23.0
12	49	25.0
15	49	28.0
18	49	30.5
20	49	32.0
22	49	33.5
25	49	35.5
15	59	25.0
18	59	27.0
20	59	28.5
22	59	29.5
25	59	31.5
27	59	33.0
30	59	34.5
33	59	36.0
35	59	37.0
38	59	38.5
40	59	39.5
45	59	42.0
50	59	44.0

MPT-350VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)	
	L (mm)	D (mm)
0.47	35	9.0
1	35	12.5
1.5	35	14.5
2	35	16.5
2.2	35	17.0
2.5	35	18.0
3	35	20.0
3.5	35	21.0
4	35	22.5
4.5	35	24.0
5	35	25.0
3	39	18.5
3.5	39	19.5
4	39	21.0
4.5	39	22.0
4.7	39	22.5
5	39	23.0
5.5	39	24.0
6	39	25.0
6.5	39	26.0
7	39	27.0
7.5	39	28.0
8	39	28.5
8.5	39	29.5
9	39	30.5
9.5	39	31.5
10	39	32.0
8	49	24.5
8.5	49	25.0
9	49	26.0
9.5	49	26.5
10	49	27.5
12	49	30.0
15	49	33.0
18	59	32.0
20	59	34.0
22	59	35.5
25	59	37.5
28	59	39.5
30	59	41.0
33	59	43.0
35	59	44.0

外形尺寸 Dimensions(mm)

MPT-400VAC

Cap（μF）	DIMENSIONS 尺寸 (mm)	
	L (mm)	D (mm)
0.47	35	10.5
1	35	14.0
1.5	35	16.5
2	35	19.0
2.2	35	20.0
2.5	35	21.0
3	39	21.0
3.5	39	22.5
4	39	24.0
4.5	39	25.5
4.7	39	26.0
5	39	26.5
5.5	39	28.0
6	49	25.0
6.5	49	26.0
7	49	27.0
7.5	49	28.0
8	49	29.0
8.5	49	30.0
9	49	30.5
9.5	49	31.5
10	49	32.5
12	59	31.0
15	59	34.5
16	59	35.5
18	59	38.0
20	59	39.5
22	59	41.5
25	59	44.0
27	59	46.0

MPT-450VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)	
	L (mm)	D (mm)
0.47	35	11.5
1	35	16.0
1.2	39	16.0
1.5	39	17.5
1.8	39	19.0
2	39	20.0
2.2	39	21.0
2.5	39	22.0
2.7	39	23.0
3	39	24.0
3.5	49	22.0
4	49	23.5
4.5	49	25.0
5	49	26.0
5.5	49	27.5
6	49	28.5
6.5	49	29.5
7	49	31.0
7.5	49	32.0
8	49	33.0
8.5	49	34.0
9	49	35.0
9.5	49	35.5
10	49	36.5
8	59	29.5
9	59	31.0
10	59	32.5
11	59	34.0
12	59	35.5
14	59	38.0
15	59	39.5
16	59	40.5
17	59	42.0
18	59	43.0
20	59	45.0

MPT-500VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)	
	L (mm)	D (mm)
0.47	39	12.0
1	39	16.5
1.5	39	19.5
1.8	39	21.0
2	39	22.5
2.2	39	23.5
2.5	39	24.5
2.7	39	25.5
3	39	27.0
3.5	49	25.0
4	49	26.5
4.5	49	28.0
5	49	29.5
5.5	49	31.0
6	49	32.0
6.5	59	30.0
7	59	30.5
7.5	59	31.5
8	59	32.5
8.5	59	33.5
9	59	34.5
9.5	59	35.5
10	59	36.5
11	59	38.0
12	59	39.5
14	59	42.5
15	59	44.0

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外形尺寸 Dimensions(mm)

MPA-250VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)		
	W(mm)	H(mm)	T(mm)
0.47	35	10.5	6.0
1	35	12.0	7.0
1.5	35	13.0	6.5
1.8	35	13.5	7.5
1.8	35	16.0	8.0
2	35	14.0	7.5
2.2	35	14.5	8.0
2.5	35	15.0	8.5
3	35	16.0	9.5
3.5	35	17.0	10.5
4	35	17.5	11.5
4.5	35	18.5	12.0
5	35	20.5	12.5
2.5	39	14.5	8.0
3	39	15.0	9.0
3.5	39	17.5	9.0
4	39	18.0	10.0
4.5	39	19.5	10.0
4.7	39	20.0	10.5
5	39	20.0	11.5
5.5	39	21.0	11.5
6	39	19.0	13.0
6	39	21.5	12.0
6.5	39	22.0	12.5
7	39	22.5	13.0
7.5	39	23.0	13.5
8	39	22.0	16.0
8	39	23.5	14.5
8.5	39	24.0	15.0
9	39	24.5	15.5
9.5	39	25.0	16.0
10	39	25.5	16.5
8	49	20.0	12.0
8.5	49	20.5	12.5
9	49	21.0	13.0
9.5	49	21.5	13.5
10	49	22.0	14.0
12	49	24.5	15.0
15	49	26.5	17.0
18	49	28.0	19.0
20	49	29.5	20.0
22	49	30.4	21.0
25	49	32.0	22.5
25	49	30.5	24.5
15	59	23.0	15.0
18	59	24.5	17.0
20	59	26.5	17.5
22	59	27.5	18.5
25	59	29.0	19.5
25	59	30.0	19.0
28	59	32.0	19.5
30	59	33.0	20.5
33	59	34.0	21.5
35	59	35.0	22.5
38	59	36.0	23.5
40	59	37.0	24.5
45	59	38.5	26.0
47	59	39.5	26.5
50	59	40.5	27.5

MPA-300VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)		
	W(mm)	H(mm)	T(mm)
0.47	35	10.5	6.0
0.7	35	12.0	7.5
1	35	12.0	7.0
1.5	35	15.0	8.5
2	35	16.5	10.0
2.2	35	17.0	10.5
2.5	35	17.5	11.5
3	35	19.0	12.5
3.5	35	20.0	14.0
4	35	21.0	15.0
4.5	35	23.0	15.5
5	35	24.0	16.0
2	39	15.5	9.0
2.2	39	16.0	9.5
2.5	39	17.5	10.0
3	39	18.5	11.0
3	37	16.5	10.5
3.3	39	18.5	12.0
3.5	39	19.0	12.5
4	39	21.0	13.0
4	39	19.5	13.5
4.5	39	20.0	13.5
4.5	39	21.5	14.0
5	39	22.5	14.5
5.5	39	23.5	15.5
6	39	24	16.5
6.5	39	25	17
7	39	25.5	18
7.5	39	27	18
8	39	28	18.5
8.5	39	28.5	19
7	49	22.5	14.5
7.5	49	23	15
8	49	23.5	16
8.5	49	24	16.5
9	49	25	17
9.5	49	25.5	17.5
10	49	26.5	17.5
12	49	28.5	19
15	49	31.5	22
18	49	33.5	24.5
9	59	23.5	14
9.5	59	24	14.5
10	59	24.5	15
12	59	26	16.5
15	59	28.5	19
18	59	30.5	21
20	59	31.5	22.5
22	59	33	23.5
25	59	35	25.5
28	59	36.5	27
30	59	38.5	27.5
33	59	40	29
35	59	41	30
40	59	44	31.5
45	59	46.5	33.5
47	59	47	34.5
50	59	48.5	36

MPA-350VAC

Cap (μF)	DIMENSIONS 尺寸 (mm)		
	W(mm)	H(mm)	T(mm)
0.47	35	10.5	6.0
1	35	13.5	9.0
1.3	35	18.0	8.5
1.5	35	16.0	11.0
1.5	35	17.0	9.0
2	35	18.5	12.5
2.2	35	19.5	13.0
2.5	35	20.5	14.0
3	35	22.0	15.5
3.5	35	23.0	17.0
4	35	24.5	18.5
4.5	35	26.5	19.0
5	35	28.0	20.0
2	39	17.5	11.0
2.2	39	18.0	12.0
2.5	39	19.0	12.5
2.5	39	21.0	11.5
3	39	20.5	14.0
3.3	39	21.0	15.0
3.5	39	21.5	15.5
4	39	23.0	16.5
4	39	24.5	15.0
4.5	39	25.0	17.0
5	39	26	18
5.5	39	27	19
6	39	28	20
6.5	39	29	21
7	39	30	22
7.5	39	31.5	22
8	39	32	23
8.5	39	33	23.5
7	49	26	18
7.5	49	26.5	18.5
8	49	27.5	19.5
8.5	49	28	20
9	49	28.5	21
9.5	49	29.5	21.5
10	49	30	22
12	49	33	23.5
15	49	36.5	27
18	49	39	30
9	59	26	18
9.5	59	26.5	18.5
10	59	27	19
12	59	30	20.5
15	59	32.5	23.5
18	59	35.1	26
20	59	37	27.5
22	59	38.5	29
25	59	40.5	31
28	59	42.5	33
30	59	45.5	33
33	59	47.5	35
35	59	48.5	36

外形尺寸 Dimensions(mm)

MPA-400VAC

CAP (μF)	DIMENSIONS 尺寸 (mm)		
	W(mm)	H(mm)	T(mm)
0.47	35	11.5	7.0
1	35	15.0	10.5
1	35	13.5	7.5
1.5	35	18.0	13.0
2	35	21.0	14.5
2.2	35	22.0	15.5
2.5	35	23.0	16.5
3	35	24.5	18.5
2	39	19.5	13.5
2.2	39	20.5	14.0
2.5	39	21.5	15.0
3	39	23.0	16.5
3.3	39	24.0	17.5
3.5	39	24.5	18.0
4	39	26.0	19.5
4.5	39	28.0	20.0
5	49	25.5	17.5
5.5	49	26.5	18.5
6	49	27.5	19.5
6.5	49	28.5	20.5
7	49	29.5	21.5
7.5	49	30	22.5
8	49	31	23
8.5	49	31.5	24
9	49	32.5	24.5
9.5	49	33.5	25.5
10	49	34	26
12	49	37.5	28
9	59	29	21.5
9.5	59	30	22
10	59	30.5	22.5
12	59	34	24.5
15	59	37	27.5
18	59	40	30.5
20	59	42	32.5
22	59	44	34.5
25	59	46.5	37
27	59	49.5	37

MPA-450VAC

CAP (μF)	DIMENSIONS 尺寸 (mm)		
	W(mm)	H(mm)	T(mm)
0.47	35	12.5	8.0
1	35	17.0	12.0
1.5	35	20.0	15.0
2	35	23.5	17.0
2.2	35	24.0	18.0
2.5	35	25.5	19.5
3	35	27.5	21.5
3.5	35	29.3	23.0
4	35	31.5	25.0
4.5	35	33.5	26.0
5	35	35.5	27.5
2	39	21.5	15.5
2.2	39	22.5	16.5
2.5	39	23.5	17.5
3	39	25.5	19.5
3.3	39	26.5	20.5
3.5	39	27.5	21.0
4	39	29.0	22.5
4.5	49	26.5	20
5	49	28.5	20.5
5.5	49	30	21.5
6	49	30.5	23
6.5	49	31.5	24
7	49	32.5	25
7.5	49	33.5	26
8	49	34.5	27
8.5	49	35.5	27.5
9	49	36.5	28.5
9.5	49	37.5	29.5
10	49	38	30.5
9	59	32.5	25
9.5	59	33.5	25.5
10	59	34	26.5
12	59	38	28.5
15	59	41.5	32
18	59	45	35.5
20	59	47	38

MPA-500VAC

CAP (μF)	DIMENSIONS 尺寸 (mm)		
	W(mm)	H(mm)	T(mm)
0.47	35	15.0	8.5
1	35	19.5	13.0
1.5	35	22.5	16.5
2	35	25.5	19.5
2	39	24.0	17.5
2.2	39	25.0	18.5
2.5	39	26.0	20.0
3	39	28.5	22.0
3.3	39	29.5	23.0
3.5	49	27.0	19.5
4	49	28.5	21.0
4.5	49	30.0	22.5
5	49	31.5	23.5
5.5	49	33.0	25.0
6	49	34.0	26.5
6.5	49	35.5	27.5
7	49	36.5	28.5
7.5	49	37.5	29.5
8	49	38.5	31
8.5	59	36.5	27
9	59	37	28
9.5	59	38	28.5
10	59	39	29.5
12	59	42	32.5
15	59	46.5	37

Carli 凱勵集團 CARLI GROUP LIMITED

外形尺寸 Dimensions(mm)

MPT-250VDC

CAP (μF)	DIMENSIONS尺寸 (mm)			CARLI P/N
	W (Max mm)	OD (Max mm)	d Φ (±0.05 mm)	
.15	21	8	0.8	PT154∗2E20■●□□□⊙■R
.22	21	9	0.8	PT224∗2E20■●□□□⊙■R
.33	26	9	0.8	PT334∗2E25■●□□□⊙■R
.47	26	10.5	0.8	PT474∗2E25■●□□□⊙■R
.68	26	12.5	0.8	PT684∗2E25■●□□□⊙■R
1.0	32	14	0.8	PT105∗2E31■●□□□⊙■R
1.5	32	16	0.8	PT155∗2E31■●□□□⊙■R
2.2	32	18	0.8	PT225∗2E31■●□□□⊙■R
3.3	37	20	0.8	PT335∗2E35■●□□□⊙■R
4.7	37	22	0.8	PT475∗2E35■●□□□⊙■R

MPT-400VDC

CAP (μF)	DIMENSIONS尺寸 (mm)			CARLI P/N
	W (Max mm)	OD (Max mm)	d Φ (±0.05 mm)	
.1	21	8.5	0.8	PT104∗2G20■●□□□⊙■R
.15	26	8.5	0.8	PT154∗2G25■●□□□⊙■R
.22	26	9.5	0.8	PT224∗2G25■●□□□⊙■R
.33	32	13	0.8	PT334∗2G31■●□□□⊙■R
.47	32	16	0.8	PT474∗2G31■●□□□⊙■R
.68	32	17	0.8	PT684∗2G31■●□□□⊙■R
1.0	32	19	0.8	PT105∗2G31■●□□□⊙■R
1.5	37	20	0.8	PT155∗2G35■●□□□⊙■R
2.2	37	22	0.8	PT225∗2G35■●□□□⊙■R

MPT-630VDC

CAP (μF)	DIMENSIONS尺寸 (mm)			CARLI P/N
	W (Max mm)	OD (Max mm)	d Φ (±0.05 mm)	
.033	21	8	0.8	PT333∗2J20■●□□□⊙■R
.047	21	9	0.8	PT473∗2J20■●□□□⊙■R
.068	26	9	0.8	PT683∗2J25■●□□□⊙■R
.1	26	11	0.8	PT104∗2J25■●□□□⊙■R
.15	32	12	0.8	PT154∗2J31■●□□□⊙■R
.22	32	14	0.8	PT224∗2J31■●□□□⊙■R
.33	32	16	0.8	PT334∗2J31■●□□□⊙■R
.47	32	18	0.8	PT474∗2J31■●□□□⊙■R
.68	37	20	0.8	PT684∗2J35■●□□□⊙■R
1.0	37	22	0.8	PT105∗2J35■●□□□⊙■R

备注：
1.“ ∗ ”表示容量误差。
2."■"表示内部特征码。
3.“ ● ”表示引線加工形式代码。
4."□□□"表示引線长度代码。
5.“ ⊙ ”表示引線长度误差代码。
6."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.

1."∗"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3."●"=Lead Form Code ：“ L","H","K","M","N"……
4."□□□"=Lead Length Code ：“ 270 ”，“ 200 ”，“ 035 ”……
5."⊙"=Lead Length Tolerance Code ：“ ±0.3 ”，“ ±0.5，“ ±1 ”……
6."R"=ROHS compliant.
"H"=Halogen-Free compliant.

外形尺寸 Dimensions(mm)

MPA-250VDC

CAP (μF)	DIMENSIONS尺寸 (mm)				CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	
.15	21	11	6	0.6	PA154∗2E20■●□□□⊙■R
.22	21	11	7	0.6	PA224∗2E20■●□□□⊙■R
.33	21	13	8	0.8	PA334∗2E20■●□□□⊙■R
.47	26	14	8	0.8	PA474∗2E25■●□□□⊙■R
.68	26	16	10	0.8	PA684∗2E25■●□□□⊙■R
1.0	26	18	11	0.8	PA105∗2E25■●□□□⊙■R
1.5	32	20	12.5	0.8	PA155∗2E31■●□□□⊙■R
2.2	32	22	14	0.8	PA225∗2E31■●□□□⊙■R
3.3	37	24	15	0.8	PA335∗2E35■●□□□⊙■R
4.7	37	27	17	0.8	PA475∗2E35■●□□□⊙■R

MPA-400VDC

CAP (μF)	DIMENSIONS尺寸 (mm)				CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	
.1	21	12	7	0.6	PA104∗2G20■●□□□⊙■R
.15	21	14	8	0.6	PA154∗2G20■●□□□⊙■R
.22	26	14	8	0.8	PA224∗2G25■●□□□⊙■R
.33	26	16	10	0.8	PA334∗2G25■●□□□⊙■R
.47	32	20	12	0.8	PA474∗2G31■●□□□⊙■R
.68	32	22	13	0.8	PA684∗2G31■●□□□⊙■R
1.0	37	23	13	0.8	PA105∗2G35■●□□□⊙■R
1.5	37	24	16	0.8	PA155∗2G35■●□□□⊙■R
2.2	41	25	16	0.8	PA225∗2G40■●□□□⊙■R
3.3	41	34	23	0.8	PA335∗2G40■●□□□⊙■R

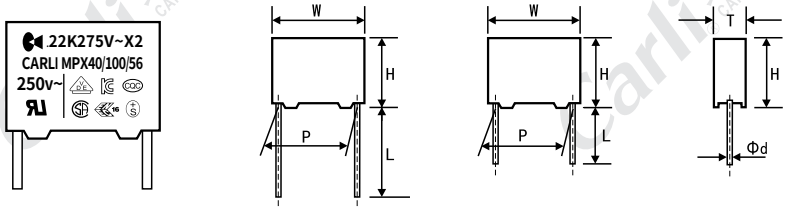
MPA-630VDC

CAP (μF)	DIMENSIONS尺寸 (mm)				CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	
.1	26	13	8	0.8	PA104∗2J25■●□□□⊙■R
.15	26	15	9	0.8	PA154∗2J25■●□□□⊙■R
.22	32	16	9	0.8	PA224∗2J31■●□□□⊙■R
.33	32	20	12	0.8	PA334∗2J31■●□□□⊙■R
.47	32	23	14	0.8	PA474∗2J31■●□□□⊙■R
.68	37	24	15	0.8	PA684∗2J35■●□□□⊙■R
1.0	41	25	16	0.8	PA105∗2J40■●□□□⊙■R
1.5	41	29	20	0.8	PA155∗2J40■●□□□⊙■R
2.2	41	34	24	0.8	PA225∗2J40■●□□□⊙■R

备注：
1. “∗”表示容量误差。
2."■"表示内部特征码。
3. “●”表示引線加工形式代码。
4."□□□"表示引線长度代码。
5. “⊙”表示引線长度误差代码。
6."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.

1."∗"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2. "■"=Internal use。
3."●"=Lead Form Code ：“L","H","K","M","N"……
4."□□□"=Lead Length Code ：“270”，“200”，“035”……
5."⊙"=Lead Length Tolerance Code ：“±0.3”，“±0.5，“±1”……
6."R"=ROHS compliant.
"H"=Halogen-Free compliant.

电容降压用金属化聚丙烯膜AC电容器（X2 类别，275Vac）
Metallized Polypropylene Film A.C Capacitor For Capacitive Divider （Class X2，275vac）



特点

- 金属化聚丙烯膜，无感捲绕结构
- 长期负载下优良稳定性
- 塑胶外壳，阻燃环氧树脂封装

Features

- Metallized Polypropylene film , non- inductive wound constructions
- Long term stablity of capacitance
- Plastic case , Flame retardant epoxy resin sealing

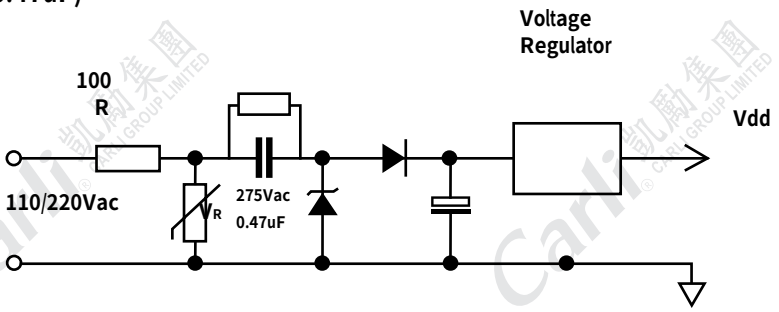
典型应用

- 适用於100~240Vac 电源串联的电容降压电路应用场合，如电表、控制器， LED 驱动等

Applications

- Suitable for applications in serial with the 100~240Vac mains, as Capacitance divider in energy meters and control boards , LED driver in white goods and home appliances

典型应用电路 Typical circuit(0.47uF)



技术要求/Specifications

引用标准/Reference Standard	GB/T14472(IEC-60384-14)	
安全认证 /Saferty approvals	CQC12001069506 , UL-CUL :E120045 ,ENEC/FI : 2015022 M1 , CSA :1490346(LR 88249), VDE: 40008520 ,EK: SU03015-3001C	
电容器类别 /Class	X2	
气候类别和阻燃等级 Climatic Category and Passive Flammability Category	40/100/56/B	
下限类别温度/Lower category temperature	-40°C	
上限类别温度/Upper category temperature	+100°C	
额定电压/Rated voltage	275VAC	
容量范围/Capacitance range	0.1μF~2.2μF	
容差/Capacitance tolerance	±10% (K),±20% (M)	
耐电压/Voltage Proof	引出端之间 Between Terminals	4.3VR(VDC) , 1min -1183VDC ,1min
	引出端与外壳之间 Between Terminals To Case	(1500+2V_R) Vac ,1 min -2050Vac , 1 min
损失角/Dissapation factor	≤0.1% (1KHz at 20~25°C)	
绝缘电阻/Insulation Resistance	≥15 000MΩ，C_R≤0.33μF	(20°C,100V,1M,50%~55%RH)
	≥5 000 s，C_R > 0.33μF	

外形尺寸 Dimensions(mm)

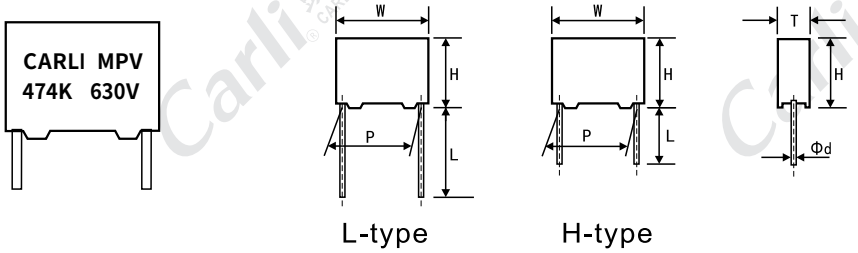
275VAC						
C_R (uF)	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	P (±1 mm)	Dφ (±0.05 mm)	Part number
0.1	13	16	8	10	0.6	PX104K3IC5■●□□□⊙■R
0.1	18	12	6	15	0.8	PX104K3ID2■●□□□⊙■R
0.15	18	13.5	7.5	15	0.8	PX154K3ID3■●□□□⊙■R
0.22	18	14.5	8.5	15	0.8	PX224K3ID4■●□□□⊙■R
0.33	18	16	10	15	0.8	PX334K3ID5■●□□□⊙■R
0.33	26.5	17	8.5	22.5	0.8	PX334K3IE3■●□□□⊙■R
0.47	26.5	19	10	22.5	0.8	PX474K3IE4■●□□□⊙■R
0.68	26.5	19	10	22.5	0.8	PX684K3IE4■●□□□⊙■R
1.0	26	21.5	12	22.5	0.8	PX105K3IE6■●□□□⊙■R
0.68	32	20	11	27.5	0.8	PX684K3IF1■●□□□⊙■R
1.0	32	22	13	27.5	0.8	PX105K3IF2■●□□□⊙■R
1.5	32	25	15	27.5	0.8	PX155K3IF3■●□□□⊙■R
2.2	32	30	18	27.5	0.8	PX225K3IF4■●□□□⊙■R

备注：

1."■"表示内部特征码。
2.“●”表示引線加工形式代码。
3."□□□"表示引線长度代码。
4.“⊙”表示引線长度误差代码。
5."R"=ROHS符合型;
"H"=Halogen-Free无鹵型.

"■"=Internal use。
"●"=Lead Form Code ：“L","H","K","M","N"……
"□□□"=Lead Length Code ：“270”，“200”，“035”……
"⊙"=Lead Length Tolerance Code ：“±0.3”，“±0.5，“±1”……
"R"=ROHS compliant.
"H"=Halogen-Free compliant.

金属化聚丙烯膜电容器（盒装型）- 电容降压用
Metallized Polypropylene Film Ac Capacitor (Box-Type) - For Capacitive Divider



L-type H-type

特点

- 金属化聚丙烯膜，无感捲绕结构
- 长期负载下优良稳定性
- 塑胶外壳，阻燃环氧树脂封装

典型应用

- 适用於100~240Vac 电源串联的电容降压电路应用场合，如电表、控制器， LED 驱动等
- 额定电压400Vdc(160Vac)电容适用於110Vac 电源用，630Vdc (275Vac)电容适用於220Vac 电源用，请参照选用。

Features

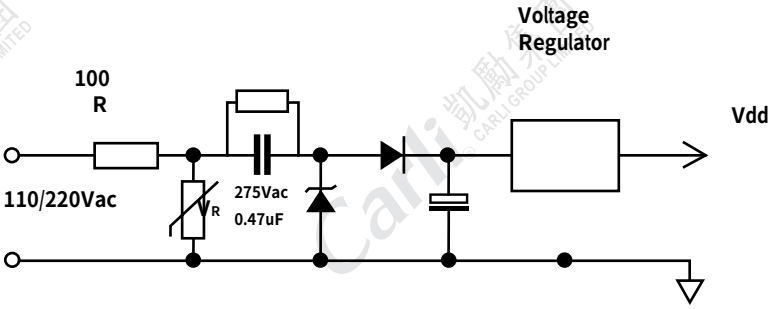
- Metallized Polypropylene film , non- inductive wound constructions
- Long term stablity of capacitance
- Plastic case , Flame retardant epoxy resin sealing

Applications

- Suitable for applications in serial with the 100~240Vac mains, as Capacitance divider in energy meters and control boards , LED driver in white goods and home appliances
- The R.V 400Vdc(160 Vac) capacitors are suitable for Vin 110Vac circuit

R.V 630Vdc (275vac) capacitors are suitable for Vin 220Vac circuit

典型应用电路
Typical circuit(0.47uF)



技术要求specifications

引用标准/Reference Standard	GB/T 10190 (IEC 60384-16)
气候类别/Climatic Category	40/85/21
额定温度/Rated Temperature	85℃
工作温度范围 /Operating Temperature Range	-40℃ ~ +85℃
额定电压/Rated voltage	400VDC (160VAC),630VDC(275VAC)
容量范围/Capacitance range	0.1μF~2.2μF
容差/Capacitance tolerance	±5% (J),±10% (K), ±20%(M)
耐电压/Voltage Proof	1.4* R.V(DC), 2s (between terminals)
损失角/Dissapation factor	≤0.1% (1KHz at 20~25℃)
绝缘阻抗/Insulation Resistance	≥15 000MΩ,C_R≤0.33μF ≥5 000 s,C_R > 0.33μF , (at 100VDC, 1min ,20~25℃,50%~55%RH)

外形尺寸 Dimensions(mm)

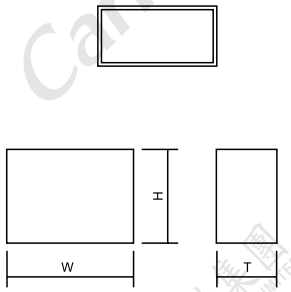
400VDC(160Vac)						
CAP (μF)	DIMENSIONS尺寸 (mm)					CARLI P/N
	W (±0.5 mm)	H (±0.5 mm)	T (±0.5 mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.1	13	12	6	0.6	10	PV104＊2GC3■●□□□⊙■R
0.15	13	12.5	7	0.6	10	PV154＊2GC4■●□□□⊙■R
0.22	18	13	6.5	0.8	15	PV224＊2GD25●□□□⊙■R
0.33	18	14.5	8.5	0.8	15	PV334＊2GD4■●□□□⊙■R
0.47	18	16	10	0.8	15	PV474＊2GD5■●□□□⊙■R
0.68	18	18.5	11	0.8	15	PV684＊2GD6■●□□□⊙■R
0.22	26.5	17	7	0.8	22.5	PV224＊2GE2■●□□□⊙■R
0.33	26.5	17	7	0.8	22.5	PV334＊2GE2■●□□□⊙■R
0.47	26.5	17	8.5	0.8	22.5	PV474＊2GE3■●□□□⊙■R
0.68	26.5	19	10	0.8	22.5	PV684＊2GE4■●□□□⊙■R
1.0	26	20	11	0.8	22.5	PV105＊2GE5■●□□□⊙■R
1.0	32	22	13	0.8	27.5	PV105＊2GF2■●□□□⊙■R
1.5	32	25	15	0.8	27.5	PV155＊2GF3■●□□□⊙■R
2.2	32	30	18	0.8	27.5	PV225＊2GF4■●□□□⊙■R

630VDC(275Vac)						
CAP (μF)	DIMENSIONS尺寸 (mm)					CARLI P/N
	W (Max mm)	H (Max mm)	T (Max mm)	d Φ (±0.05 mm)	P (±1 mm)	
0.1	13	16	8	0.6	10	PV104＊2JC5■●□□□⊙■R
0.1	18	12	6	0.8	15	PV104＊2JD2■●□□□⊙■R
0.15	18	14.5	8.5	0.8	15	PV154＊2JD4■●□□□⊙■R
0.22	18	15.5	10	0.8	15	PV224＊2JD51●□□□⊙■R
0.33	18	18.5	11	0.8	15	PV334＊2JD6■●□□□⊙■R
0.33	26.5	17	8.5	0.8	22.5	PV334＊2JE3■●□□□⊙■R
0.47	26.5	19	10	0.8	22.5	PV474＊2JE4■●□□□⊙■R
0.68	26.5	20	11	0.8	22.5	PV684＊2JE5■●□□□⊙■R
1.0	32	22	13	0.8	27.5	PV105＊2JF2■●□□□⊙■R
2.2	32	30	18	0.8	27.5	PV225＊2JF4■●□□□⊙■R

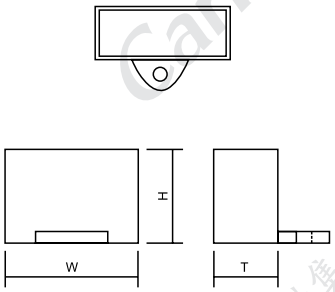
备注：

1.“＊”表示容量误差。 "＊"=capacitance tolerance code, J=±5%, K=±10%, M=±20%.
2."■"表示内部特征码。 "■"=Internal use。
3.“●”表示引線加工形式代码。 "●"=Lead Form Code ：“L","H","K","M","N"……
4."□□□"表示引線长度代码。 "□□□"=Lead Length Code ：“270”，“200”，“035”……
5.“⊙”表示引線长度误差代码。 "⊙"=Lead Length Tolerance Code ：“±0.3”，“±0.5，“±1”……
6."R"=ROHS符合型; "R"=ROHS compliant.
"H"=Halogen-Free无鹵型. "H"=Halogen-Free compliant.

金属化聚脂膜交流电动机电容器
Metallized Polyester Film AC Motor Capacitor



■ BT



■ BL

特点
- 金属化聚脂膜，无感捲绕结构
- 良好自愈性
- 高稳定性和可靠性

结构
- 电介质：聚脂膜
- 外壳：方型，UL94V-0级工程塑料
- 填充料：UL94V-0级环氧树脂
- 引出端：Tc，T，V，U，M 或依客户要求

典型应用
- 适用於马达，电子扇，吊扇，排风机和其他设备单相电机
- 交流滤波

Features
- Metallized Polyester Film, Non-induction Wound construction
- Self-healing property
- High stability and reliability

Construction
- Dielectric: Polyester film
- Case : rectangular shape , engine plastic UL94V-0
- Filling material: Epoxy resin UL 94V-0 class.
- Terminals : TC ,T,V ,U, M,or as customer required

Applications
- Motor, electronic fan,ceiling fan,exhaust fan and other equipments with single-phase motors
- AC Filter capacitor

电气特性/ Specifications （在额定功率和额定温度下）

电容器类别/Class	S0					
引用标准/Reference standard	IEC60252-1					
气候类别/Climatic category	25/70/21					
频率/Frequency	50/60 Hz					
额定电压/Rated voltage (AC)	250V	300V	350V	450V	500V	550V
容量范围/Capacitance range	1~60	1~35	1~30	1~20	0.5~10	0.5~9
散逸因素/Dissipation Factor	≤0.020（1000Hz,25°C,only refer for TC terminal)					
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)					
绝缘电阻/Insulation Resistance	≥1,000s (100VDC,60s,20°C,RH≤65%)					
端子间耐电压（Vtt) Withstand Voltage between terminals	175%*Unac , 2s					
端子对外壳间耐电压(Vtc) Withstand Voltage between terminal and case	2500Vac ,50Hz,1min					

外形尺寸 Dimensions(mm)

250VAC

Cap (μF)	Tolerance±1mm		
	W(mm)	H(mm)	T(mm)
1	32	20.0	11.0
1.5	32	20.0	11.0
2	32	20.0	11.0
2.5	32	20.0	11.0
3	32	22.0	13.0
3.3	32	22.0	13.0
3.5	32	22.0	13.0
4	32	22.0	13.0
4	32	23.5	14.0
4.5	32	25.0	15.0
5	32	22.0	13.0
5	32	25.0	15.0
4	36	22.0	12.0
4.5	36	24.0	12.5
5	38	24.0	13.5
5.5	38	24.0	13.5
6	38	23.0	14.0
6	38	25.0	15.0
6.4	38	23.0	14.0
6.5	38	25.0	15.0
7	38	26.0	16.0
7.5	38	26.0	16.0
8	37	26.0	17.0
8	38	28.0	18.0
8	38	30.0	20.0
8.5	38	28.0	18.0
9	38	26.0	16.0
9	38	28.0	18.0
9	38	30.0	20.0
9	38	31.0	22.5
9.5	38	28.0	18.0
10	38	28.0	18.0
10	38	29.0	19.0
10	48	28.0	17.0
12	48	28.0	17.0
14	48	29.0	19.0
15	48	29.0	19.0
15	48	31.0	20.0
17	48	31.0	20.0
18	48	33.0	20.0
20	48	32.0	23.0
22	48	35.0	23.0
23	48	35.0	23.0
25	48	37.0	26.0
27	48	37.0	26.0
30	48	40.0	28.0
32	48	40.0	28.0
32	58	38.0	23.0
33	58	38.0	23.0
35	58	38.0	26.0
40	58	40.0	28.0
45	58	40.0	30.0
50	58	43.0	32.0
55	60	45.0	33.0
60	60	50.0	35.0

300VAC

Cap (μF)	Tolerance±1mm		
	W(mm)	H(mm)	T(mm)
1	32	20.0	11.0
1.5	32	22.0	13.0
2	32	22.0	13.0
2.5	32	25.0	15.0
3	32	28.0	17.0
3.5	32	28.0	17.0
2	36	22.0	12.0
2.5	38	24.0	13.5
3	38	24.0	13.5
3.5	38	26.0	16.0
4	38	26.0	16.0
4.5	38	28.0	18.0
5	38	28.0	18.0
5.5	38	29.0	19.0
6	38	30.0	20.0
6.5	48	28.0	17.0
7	48	29.0	19.0
7.5	48	29.0	19.0
8	48	31.0	20.0
8	48	29.0	19.0
8.5	48	31.0	20.0
9	48	31.0	20.0
9.5	48	33.0	20.0
10	48	33.0	20.0
12	48	35.0	23.0
15	48	37.0	26.0
18	48	40.0	28.0
20	58	38.0	26.0
22	58	40.0	28.0
24	58	40.0	28.0
25	58	40.0	30.0
26	58	40.0	30.0
28	58	43.0	32.0
30	58	43.0	32.0
35	60	50.0	35.0

350VAC

Cap (μF)	Tolerance±1mm		
	W(mm)	H(mm)	T(mm)
1	32	20.0	11.0
1.5	32	22.0	13.0
2	32	25.0	15.0
2.5	32	28.0	17.0
3	32	30.0	18.0
3.5	32	33.0	18.0
2	38	24.0	13.5
2.5	38	26.0	16.0
3	38	26.0	16.0
3.5	38	28.0	18.0
4	38	29.0	19.0
4.5	38	30.0	20.0
5	38	31.0	22.5
5.5	38	31.0	22.5
6	38	34.0	23.0
6.5	38	34.0	23.0
5.5	48	29.0	19.0
6	48	29.0	19.0
6.5	48	31.0	20.0
7	48	31.0	20.0
7.5	48	33.0	20.0
8	48	32.0	23.0
8.5	48	32.0	23.0
9	48	35.0	23.0
9.5	48	35.0	23.0
10	48	37.0	24.0
10	48	37.0	26.0
12	48	40.0	28.0
13	48	40.0	28.0
12	58	38.0	23.0
14	58	38.0	26.0
15	58	38.0	26.0
17	58	40.0	28.0
20	60	43.0	30.0
20	58	43.0	32.0
22	58	43.0	32.0
25	60	50.0	35.0
27	60	50.0	35.0
30	60	53.0	38.0

外形尺寸 Dimensions(mm)

450VAC			
Cap (μF)	Tolerance±1mm		
	W(mm)	H(mm)	T(mm)
1	36	22.0	12.0
1.5	38	23.0	14.0
2	38	26.0	16.0
2.5	38	28.0	18.0
3	38	30.0	20.0
3.5	38	31.0	22.5
4	38	34.0	23.0
3	48	28.0	17.0
3.5	48	29.0	19.0
4	48	30.0	20.0
4.5	48	33.0	20.0
5	48	33.0	20.0
5	48	32.0	23.0
5.5	48	32.0	23.0
6	48	35.0	23.0
6.5	48	35.0	23.0
7	48	37.0	24.0
7.5	48	37.0	26.0
8	48	40.0	28.0
8.5	48	40.0	28.0
9	48	40.0	28.0
9	58	38.0	23.0
9.5	58	38.0	26.0
10	58	38.0	26.0
12	58	40.0	30.0
14	58	43.0	32.0
15	60	45.0	33.0
17	60	50.0	35.0
18	60	50.0	35.0
20	60	53.0	38.0

500VAC			
Cap (μF)	Tolerance±1mm		
	W(mm)	H(mm)	T(mm)
0.5	36	22.0	12.0
0.75	38	24.0	13.5
1	38	26.0	16.0
1.2	38	28.0	18.0
1.5	38	29.0	19.0
1.5	38	30.0	20.0
1.7	38	29.0	19.0
1.8	38	31.0	22.5
1.9	38	31.0	22.5
2	38	31.0	22.5
2	38	34.0	23.0
2.2	38	31.0	22.5
2.5	48	33.0	20.0
3	48	32.0	23.0
3.3	48	35.0	23.0
3.5	48	37.0	24.0
4	48	37.0	26.0
4.5	48	40.0	28.0
4.7	48	40.0	28.0
5	48	40.0	28.0
5	58	38.0	26.0
5.5	58	38.0	26.0
6	58	40.0	28.0
6.5	58	40.0	28.0
7	58	40.0	30.0
7.5	58	43.0	32.0
8	58	43.0	32.0
8.5	60	45.0	33.0
9	60	50.0	35.0
9.5	60	50.0	35.0
10	60	50.0	35.0

550VAC			
Cap (μF)	Tolerance±1mm		
	W(mm)	H(mm)	T(mm)
0.5	38	24.0	13.5
0.75	38	25.0	15.0
1	38	26.0	16.0
1.2	38	28.0	18.0
1.5	38	29.0	19.0
1.5	38	31.0	20.0
1.7	38	31.0	22.5
1.8	38	31.0	22.5
1.8	38	34.0	23.0
1.9	38	31.0	22.5
2	38	31.0	22.5
2	38	34.0	23.0
2.2	38	31.0	22.5
1.9	48	29.0	19.0
2	48	29.0	19.0
2	48	31.0	20.0
2.2	48	31.0	20.0
2.5	48	32.0	23.0
2.7	48	32.0	23.0
3	48	35.0	23.0
3.3	48	37.0	24.0
3.5	48	37.0	24.0
4	48	40.0	28.0
4.5	48	40.0	28.0
5	58	38.0	26.0
5.5	58	40.0	28.0
6	58	40.0	28.0
6.5	58	40.0	30.0
6.5	58	43.0	32.0
7	58	43.0	32.0
7.5	58	43.0	32.0
8	60	50.0	35.0
8.5	60	50.0	35.0
9	60	50.0	35.0

Product Code System for Power electric Capacitor and Motor Capacitor
电力电子电容和马达电容产品代码系统

For example: The part number,comprising 18 digits， formed as follows.
举例：产品料号由18位数位组成，如下：

P	K	3	5	5	J	5	0	0	A	U	L	B	4	H	T	1	R
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

数位1~2: 型号代码
数位 3~5: 容值代码
数位 6: 容量偏差代码
数位 7~10: 额定电压代码
数位 11 设计代码
数位 12~15: 壳体及安装码
数位 16~17: 引出方式及其他区分码
数位 18: RoHs 或 HF 符合性代码

Digit 1~2: Type Code
Digit 3~5: Capacitance Value Code
Digit 6: Capacitance Tolerance Code
Digit 7~10: Rated Voltage Code
Digit 11 Design Code
Digit 12~15: Case and mounting Code
Digit 16~17: Connecting Code
Digit 18: RoHs or HF Compliance Type Code

0.1 数位：1~2 ；型号代码

TYPE 型号	MEK	MPK	MPR	MS3	RS3	MKP	MKR	SCD	SCH	FPK	MKE	HVS	SCK
CODE 代码	EK	PK	PR	S3	S3	KR	KR	CD	SH	FK	KE	HV	SK

0.1 Digit 1 to 2；Type Code

0.2 数位3~5: 3位数位代码表示容值
前两位表示基数,第三个数位表示其后零的个数

容量值单位为皮法
举例: 126 =12*10⁶ pF= 12,000,000pF =12000nF = 12uF

0.2 Digit 3 to 5 : Capacitance Expressed in 3-digit code
The first 2 digits indicate significant figures, and the third digit specifies the number of zero to follow.

This gives the capacitance in picofarads.
For examples: 126 =12*10⁶ pF= 12,000,000pF =12000nF = 12uF

0.3 数位 6:容量扁差

公差	±5%	±10%	±20%	0-10%	-5-+10%
代码	J	K	M	T	U

0.3 Digit 6: Capacitance tolerance

TOLERANCE	±5%	±10%	±20%	0-10%	-5-+10%
CODE	J	K	M	T	U

0.4 数位7~10: 额定电压

VR(DC)	250	400	450	500	630	800	1000	1250	1600	2000	2500
代码	250D	400D	450D	500D	630D	800D	1K0D	1K2D	1K6D	2K0D	2K5D

VR(AC)	250	275	300	350	400	500	600
代码	250A	275A	300A	350A	400A	500A	600A

0.4 Digit 7 to 10 : Rated Voltage

VR(DC)	250	400	450	500	630	800	1000	1250	1600	2000	2500
CODE	250D	400D	450D	500D	630D	800D	1K0D	1K2D	1K6D	2K0D	2K5D

VR(AC)	250	275	300	350	450	550	600
CODE	250A	275A	300A	350A	450A	550A	600A

0.5 数位11: 设计代码

0.6 数位12~15: 表示壳体代码

L	B	4	H
12	13	14	15

0.5 Digit 11 : Design Code

0.6 Digit 12 to 15: Case code

L	B	4	H
12	13	14	15

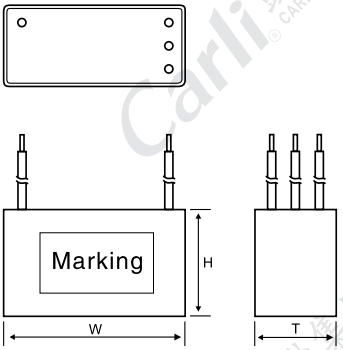
12 L：壳体外型和固定端区分码
T: 方型外壳无固定端
L： 方型外壳有固定端
R： 圆柱型外壳有固定端
P： 圆柱型外壳无固定端
H: 管状型外壳
G: 管状型外壳有固定端

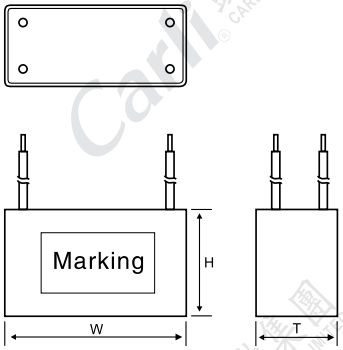
12 L: Caseshape and mounting foot styles
T : Rectangular with no mounting foot
L : Rectangular with mounting foot
R : Cylindrical case shape with mounting foot
P : Cylindrical case shape with no mounting foot
H: Tube case shape
G: Cylindrical case shape with mounting foot

13～15： 壳体序列号码
0.7 数位16和数位17： 产品引出方式及其他区分代码
C:铜线 S:铜端
F:片端铜 9:CP线
T:250单端 R:250双端
0.8 数位18： "H" 无卤型;
"R" ROHS符合型

13～15： series code
0.7 Digit 16 and 17: Products connect code
C:Copper Line S:Copper end
F:Copper sheet 9:CP Line
T:250 Single-end R:250 Double-end
0.8 Digit 18: "H" Halogen-Free compliant ;
"R" ROHS compliant.ROHS

S0型金属化聚丙烯膜交流电动机电容器
S0 class metallized polypropylene film AC motor capacitor





特点
- 金属化聚丙烯膜，无感捲绕结构
- 良好自愈性
- 高稳定性和可靠性

结构
- 电介质：聚丙烯膜
- 外壳：方型，UL94V-0级工程塑料
- 填充料：UL94V-0级环氧树脂
- 引出端：Tc，T，V，U，M 或依客户要求

典型应用
- 适用於马达，电子扇，吊扇，排风机和其他设备单相电机
- 交流滤波

Features
- Metallized Polypropylene Film, Non-inductive Wound construction
- Self-healing property
- High stability and reliability

Construction
- Dielectric: Polypropylene film
- Case : rectangular shape , engine plastic UL94V-0
- Filling material: Epoxy resin UL 94V-0 class.
- Terminals : TC ,T,V ,U, M,or as customer required

Applications
- Motor, electronic fan,ceiling fan,exhaust fan and other equipments with single-phase motors
- AC Filter capacitor

电气特性/ Specifications （在额定功率和额定温度下）

电容器类别/Class	S0							
引用标准/Reference standard	UL810-2012,IEC60252-1,GB/T3667.1, JIS4908							
气候类别/Climatic category	25/85/21							
频率/Frequency	50/60 Hz							
额定电压/Rated voltage (Vac)	250V	300V	350V	400V	450V	500V	550V	600V
容量范围/Capacitance range (μF)	0.5~55	0.5~35	0.5~24	0.5~20	0.5~18	1~15	1~13	1~10
散逸因素/Dissipation Factor	≤0.0020（1KHz,25°C,only refer for TC terminal)							
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)							
绝缘电阻/Insulation Resistance	≥1,000s (100VDC,60s,20°C,RH≤65%)							
端子间耐电压（Vtt) Withstand Voltage between terminals	175%*Unac , 2s							
端子对外壳间耐电压(Vtc) Withstand Voltage between terminal and case	2500Vac ,50Hz, 1min							
最大允许电压/Max permissible voltage	110%*Unac							
最大允许电流/Max permissible current	130%*In							
最大允许电压电流/Max permissible voltage and current	130%*Unac*In							

安全认证/Safety approvals

Body(机构)	Approved Standard	Note
UL	UL810,Construction only	E465486
CUL	C22.2 No.190-M1985	E465486

外形尺寸 Dimensions(mm)

250VAC			
Cap .(μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
0.5	30	17.5	10
1	32	20	11
1	30	17.5	10
1.5	32	20	11
2	32	20	11
2.2	32	20	11
2.5	32	20	11
3	32	22	13
3.5	32	22	13
4	32	25	15
4.5	32	25	15
5	32	25	15
3	36	22	12
3.5	36	22	12
4	36	24	12.5
4.5	36	24	12.5
4.5	38	23	14
4.7	38	23	14
4.7	36	24	13.5
5	36	24	13.5
5	38	25	15
5.5	38	25	15
6	38	25	15
6	38	26	16
6.5	38	26	16
7	38	28	16
7.5	38	28	18
7.5	38	28	16
8	38	28	18
8.5	38	28	18
8.5	38	29	19
9	38	29	19
9.5	38	30	20
10	38	30	20
6.5	48	29	19
7	48	29	19
7.5	48	29	19
8	47	28	17
8.5	47	28	17
9	47	28	17
9.5	47	28	17
10	47	28	17
10	48	30	20
12	48	29	19
15	47	31	20
18	48	32	23

250VAC			
Cap .(μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
18	47	35	23
20	48	37	24
15	60	31	21
18	60	34	22
20	60	37	23.5
22	60	37	23.5
25	60	39	25
28	60	39	25
30	60	41	27
32	60	41	27
35	60	43	30
38	60	43	30
40	60	45	33
45	60	45	33
50	60	50	35
55	60	50	35

300VAC			
cap .(μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
0.5	30	17.5	10
1	30	17.5	10
1.2	32	20	11
1.5	32	20	11
1.8	32	22	13
2	32	22	13
2.2	32	22	13
2.5	32	25	15
3	32	25	15
3.3	32	25	15
3.5	32	28	17
4	32	28	17
4.5	32	30	18
2	36	22	12
2.2	36	22	12
2.5	36	24	12.5
3	36	24	13.5
3.3	38	25	15
3.5	38	26	16
4	38	28	16
4.5	38	28	18
5	38	28	18
5.5	38	29	19
6	38	30	20
6.5	39	31	22.5

300VAC			
cap .(μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
7	39	31	22.5
7.5	39	33.7	23
8	39	33.7	23
8.5	39	33.7	23
7	47	28	17
8	48	29	19
8.5	48	30	20
9	47	31	20
9.5	47	31	20
10	47	33	20
10	47	31	20
12	47	35	23
14	48	37	24
15	48	37	26.5
18	48	40	28
9	60	31	21
9.5	60	31	21
10	60	34	22
12	60	37	23.5
15	60	39	25
18	60	41	27
20	60	43	30
22	60	43	30
24	60	43	30
25	60	45	33
27	60	45	33
28	60	45	33
30	60	50	35
33	60	50	35
35	60	50	35

MPK
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350VAC

cap .(μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
0.5	30	17.5	10
1	32	20	11
1.2	32	22	13
1.5	32	22	13
1.8	32	25	15
2	32	25	15
2.2	32	25	15
2.5	32	28	17
3	32	28	17
3.3	32	30	18
3.5	32	33	18
1.2	36	22	12
1.5	36	22	12
1.8	36	24	12.5
2	38	25	15
2.2	38	25	15
2.5	38	26	16
2.7	38	26	16
3	38	28	16
3	38	26	16
3.3	38	28	18
3.5	38	29	19
4	38	30	20
4	38	29	19
4	38	28	18
4.5	38	30	20
4.5	38	28	18
4.5	38	29	19
5	39	31.2	22.5
5.5	39	33.7	23
5.5	39	31.2	22.5
6	39	33.7	23
5	48	29	19
5.5	48	29	19
6	48	30	20
6.5	47	33	20
7	47	33	20
7.5	48	32	23
8	48	35	23
8.5	48	35	23
9	48	35	23
9.5	48	37	24
10	48	37	24
12	48	40	28
6.5	60	31	21
8	60	34	22
8.5	60	37	23.5
9	60	37	23.5
9.5	60	37	23.5
10	60	37	23.5
12	60	39	25
14	60	41	27
15	60	43	30
18	60	45	33
20	60	45	33
22	60	50	35
24	60	50	35

400VAC

cap (μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
0.5	30	17.5	10
1	32	22	12
1.2	32	22	13
1.5	32	25	15
1.8	32	25	15
2	32	28	17
2.2	32	28	17
2.5	32	28	17
2.7	32	30	18
3	32	33	18
1	36	22	12
1.5	36	24	13.5
1.8	38	25	15
2	38	25	15
2	36	24	13.5
2.2	38	26	16
2.5	38	28	16
2.5	36	28	16
3	38	28	18
3.3	38	29	19
3.5	38	30	20
3.5	38	29	19
4	39	31.2	22.5
4.5	39	31.2	22.5
5	39	33.7	23
4	48	28	17
4.5	48	29	19
4.5	48	28	17
5	48	30	20
5	47	31	17
5.5	50	31	21
6	48	32	23
6.5	48	32	23
7	47	35	23
7.5	48	37	24
8	48	37	24
8	47	35	23
8.5	48	37	26
9	48	37	26
9.5	48	40	28
10	48	40	28
5	60	31	21
6	60	34	22
6.5	60	34	22
7	60	34	22
7.5	60	37	23.5
8	60	37	23.5
8.5	60	37	23.5
9	60	39	25
9.5	60	39	25
10	60	39	25
12	60	41	27
12	58	38	26
14	60	43	30
15	60	45	33
16	60	45	33
18	60	50	35
20	60	50	35

450VAC

cap (μF)	Tolerance±1mm		
	W (±1mm)	H (±1mm)	T (±1mm)
0.5	30	17.5	10
1	32	22	13
1.5	32	25	15
1	36	22	12
1.5	38	25	15
2	38	25	15
2.5	38	28	18
3	38	30	20
3	47	28	17
3.5	47	28	17
4	48	29	19
4.5	48	30	20
5	47	31	20
5.5	48	32	23
6	48	32	23
6.5	48	37	24
7	48	37	24
7.5	48	37	26
8	48	37	26
8.5	48	40	28
9	48	40	28
9.5	50	40	30
10	50	40	30
5	60	31	21
6	60	34	22
6.5	60	37	23.5
7	60	37	23.5
7.5	60	37	23.5
8	60	39	25
8.5	60	39	25
9	60	41	27
9.5	60	41	27
10	60	41	27
12	60	43	30
14	60	45	33
15	60	45	33
17	60	50	35
18	60	50	35

外形尺寸 Dimensions(mm)

500VAC

cap (μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
0.5	30	17.5	10
1	32	22	13
1.2	32	25	15
1.5	32	25	15
1.8	32	28	17
2	32	28	17
2.2	32	30	18
2.5	32	30	18
2.5	32	33	18
2.7	32	33	18
1	36	22	12
1.5	38	25	15
1.5	37	24	13.5
1.8	38	25	15
2	38	26	16
2	38	25	15
2.5	38	28	18
3	38	30	20
3.5	39	31.2	22.5
4	39	33.7	23
3	47	28	17
3.5	47	28	17
4	48	29	19
4.5	47	31	20
5	47	31	20
5.5	48	32	23
6	48	32	23
6.5	48	37	24
7	48	37	24
7.5	48	37	26
8	48	37	26
8.5	48	40	28
9	48	40	28
9.5	50	40	30
10	50	40	30
5	60	31	21
6	60	34	22
6.5	60	37	23.5
7	60	37	23.5
7.5	60	37	23.5
8	60	39	25
8.5	60	39	25
9	60	41	27
9.5	60	41	27
10	58	38	26
10	60	41	27
12	60	43	30
14	60	45	33
15	60	45	33
17	60	50	35
18	60	50	35

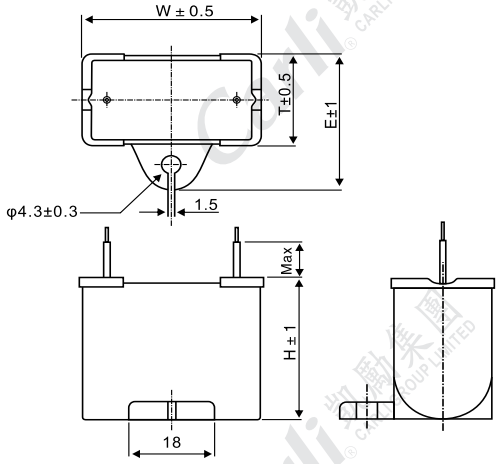
550VAC*

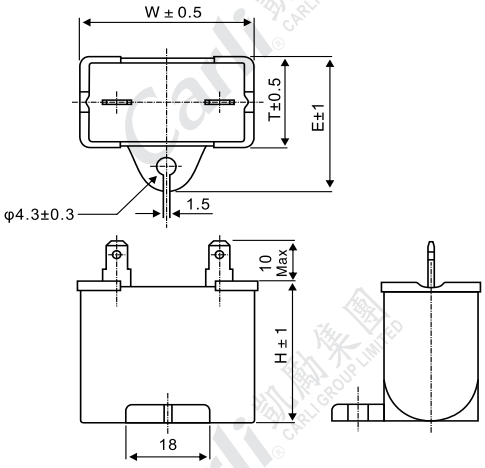
cap (μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
1	36	22	12
1	38	24	13.5
1.2	36	24	13.5
1.5	38	26	16
1.8	38	28	16
2	38	28	18
2.2	38	29	19
2.5	38	30	20
3	39	31.2	22.5
3	48	29	19
3	47	31	20
3.5	47	31	20
4	48	32	23
4	47	35	23
4.5	47	35	23
5	47	35	23
5.5	48	37	24
6	48	37	26
6.5	48	37	26
7	48	40	28
4	60	31	21
4.5	60	34	22
5	60	37	23.5
5.5	60	37	23.5
6	60	37	23.5
6	58	38	23
6.5	58	38	23
6.5	60	39	25
7	58	38	26
7	60	39	25
7.5	58	38	26
7.5	60	41	27
8	60	41	27
8	58	38	26
8.5	58	38	26
8.5	60	43	30
9	60	43	30
9.5	60	43	30
10	60	45	33
10	60	43	30
12	60	45	33
12	60	50	35
13	60	50	35

600VAC

cap (μF)	Tolerance±1mm		
	W (mm)	H (mm)	T (mm)
1	36	24	12.5
1	38	25	15
1.2	38	26	16
1.5	38	28	18
1.8	38	29	19
2	38	30	20
2.2	39	31.2	22.5
2.5	39	33.7	23
2	48	28	17
2.5	48	29	19
3	47	33	20
3.5	48	32	23
4	47	35	23
4.5	48	37	26
5	48	37	26
5.5	48	40	28
3	60	31	21
3.5	60	34	22
4	60	34	22
4	60	37	23.5
4.5	60	37	23.5
5	60	39	25
5.5	60	39	25
6	60	41	27
6.5	60	41	27
7	60	43	30
7.5	60	43	30
8	60	45	33
8.5	60	45	33
9	60	45	33
9.5	60	50	35
10	60	50	35

S3型金属化聚丙烯安全膜交流电动机电容器
S3 class metallized polypropylene Safety film AC motor capacitor





特点
- 金属化聚丙烯安全膜，无感捲绕结构
- 良好自愈性
- 高稳定性和可靠性

结构
- 电介质：聚丙烯膜
- 外壳：方型，UL94V-0级工程塑料
- 填充料：UL94V-0级环氧树脂
- 引出端：Tc，T，V，U，M 或依客户要求

典型应用
- 适用於马达，电子扇，吊扇，排风机和其他设备单相电机
- 交流滤波

Features
- Metallized Polypropylene Film, Non-inductive Wound construction
- Self-healing property
- High stability and reliability

Construction
- Dielectric: Polypropylene film
- Case : rectangular shape , engine plastic UL94V-0
- Filling material: Epoxy resin UL 94V-0 class.
- Terminals : TC ,T,V ,U, M,or as customer required

Applications
- Motor, electronic fan,ceiling fan,exhaust fan and other equipments with single-phase motors.
- AC Filter capacitor

电气特性/ Specifications （在额定功率和额定温度下）

电容器类别/Class	S3				
引用标准/Reference standard	UL810-2012,IEC60252-1,GB/T3667.1, JIS4908				
气候类别/Climatic category	25/85/21				
频率/Frequency	50/60 Hz				
额定电压/Rated voltage (Vac)	250V	300V	350V	450V	550V*
容量范围/Capacitance range(μF)	1~40	1~28	1~23	1~15	1~12
散逸因素/Dissipation Factor	≤0.0020（1KHz,25°C,only refer for TC terminal)				
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)				
绝缘电阻/Insulation Resistance	≥1,000s (100VDC,60s,20°C,RH≤65%)				
端子间耐电压（Vtt) Withstand Voltage between terminals	175%*Unac , 2s				
端子对外壳间耐电压(Vtc) Withstand Voltage between terminal and case	2500Vac ,50Hz, 1min				
最大允许电压/Max permissible voltage	110%*Unac				
最大允许电流/Max permissible current	130%*In				
最大允许电压电流/Max permissible voltage and current	130%*Unac*In				

安全认证/Safety approvals

Body(机构)	Approved Standard	Note
UL	UL810,10000AFC Protected	E465078
CQC	GB/T 60252-1:2016	CQC 17002173884
TUV	EN 60252:2011+A1	R 50382921

外形尺寸 Dimensions(mm)

250VAC			
cap .(μF)	Tolerance±1		
	W (mm)	H (mm)	T (mm)
1	40	22	13
1.5	40	25	15
2	40	25	15
2.5	40	28	16
3	40	28	16
3.5	40	28	16
4	40	29	19
4.5	40	29	19
5	40	31	21
5.5	40	31	21
6	40	31	21
6.5	40	34	22
6.5	50	29	19
7	50	31	21
7.5	50	31	21
8	50	31	21
8.5	50	31	21
9	50	34	22
9.5	50	34	22
10	50	34	22
10	60	31	21
12	60	34	22
15	60	37	23.5
16	60	37	23.5
18	60	39	25
20	60	41	27
22	60	41	27
25	60	43	30
27	60	43	30
30	60	45	33
32	60	45	33
35	60	50	35
37	60	50	35
40	60	53	38

300VAC			
cap .(μF)	Tolerance±1		
	W (mm)	H (mm)	T (mm)
1	40	25	15
1.2	40	25	15
1.5	40	25	15
1.8	40	28	16
2	40	28	16
2.2	40	28	16
2.5	40	29	19
2.7	40	29	19
3	40	29	19
3.5	40	31	21
4	40	31	21
4.5	40	34	22
4.5	50	29	19
5	50	31	21
5.5	50	31	21
6	50	34	22
6.5	50	34	22
7	50	34	22
7	60	31	21
7.5	60	31	21
8	60	34	22
8.5	60	34	22
9	60	34	22
9.5	60	37	23.5
10	60	37	23.5
12	60	39	25
15	60	41	27
18	60	43	30
20	60	45	33
22	60	50	35
23	60	50	35
25	60	50	35
27	60	53	38
28	60	53	38

350VAC			
cap .(μF)	Tolerance±1		
	W(mm)	H (mm)	T (mm)
1	40	25	15
1.5	40	28	16
1.8	40	28	16
2	40	28	16
2.2	40	29	19
2.5	40	29	19
2.7	40	31	21
3	40	31	21
3.3	40	31	21
3.5	40	34	22
3.5	50	29	19
4	50	31	21
4.5	50	31	21
5	50	34	22
5.5	50	34	22
6	60	31	21
6.5	60	34	22
7	60	34	22
7.5	60	34	22
8	60	37	23.5
8.5	60	37	23.5
9	60	37	23.5
9.5	60	39	25
10	60	39	25
12	60	41	27
15	60	43	30
17	60	45	33
20	60	50	35
22	60	53	38
23	60	53	38

外形尺寸 Dimensions(mm)

450VAC			
cap .(μF)	Tolerance±1		
	W (mm)	H (mm)	T (mm)
1	40	29	19
1.2	40	29	19
1.5	40	29	19
1.8	40	31	21
2	40	31	21
2.2	40	34	22
2.5	40	37	23.5
2.7	40	37	23.5
2.5	50	31	21
2.7	50	31	21
3	50	34	22
3.3	50	34	22
3.5	50	34	22
3.7	50	37	23.5
4	50	37	23.5
3.5	60	31	21
3.7	60	31	21
4	60	34	22
4.3	60	34	22
4.5	60	34	22
4.7	60	34	22
5	60	37	23.5
5.5	60	37	23.5
6	60	39	25
6.5	60	39	25
7	60	41	27
7.5	60	41	27
8	60	43	30
8.5	60	43	30
9	60	43	30
10	60	45	33
10	60	50	35
11	60	50	35
12	60	50	35
12	60	53	38
12.5	60	53	38

550VAC			
cap .(μF)	Tolerance		
	W (mm)	H (mm)	T (mm)
1	40	29	19
1.5	40	31	21
1.8	40	31	21
2	40	34	22
2.5	40	37	23.5
2.5	50	31	21
3	50	34	22
3.5	50	37	23.5
3.7	50	37	23.5
3	60	31	21
3.5	60	34	22
4	60	34	22
4.5	60	37	23.5
5	60	37	23.5
5.5	60	39	25
6	60	41	27
6.5	60	41	27
7	60	43	30
7.5	60	43	30
8	60	43	30
8.5	60	45	33
9	60	45	33
9.5	60	45	33
10	60	50	35
12	60	53	38

450VAC*-TUV			
cap .(μF)	Tolerance		
	W (mm)	H (mm)	T (mm)
1	40	29	19
1.5	40	31	21
1.8	40	31	21
2	40	34	22
2.5	40	37	23.5
2.5	50	31	21
3	50	34	22
3.5	50	37	23.5
3.7	50	37	23.5
3	60	31	21
3.5	60	34	22
4	60	34	22
4.5	60	37	23.5
5	60	37	23.5
5.5	60	39	25
6	60	41	27
6.5	60	41	27
7	60	43	30
7.5	60	43	30
8	60	43	30

备注：

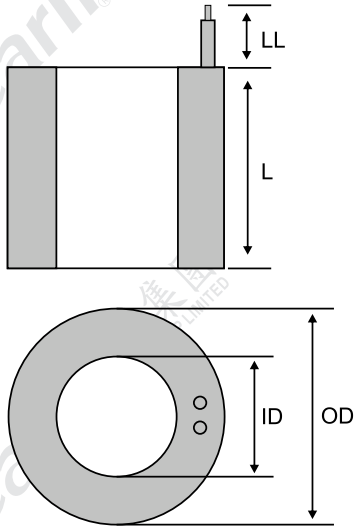
1. "*" VDE U_R450VAC(B) 400VAC(A) 450VAC(C)

金属化聚丙烯膜水泵马达电容器
Metallized Polypropylene Membrane Water Pump Motor Capacitor

特点
- 金属化聚丙烯膜，无感捲绕结构
- 良好自愈性
- 长寿命、高稳定性和可靠性

结构
- 电介质：聚丙烯膜
- 电极：金属化膜
- 外壳：圆柱型，UL94V-0级工程塑料
- 填充料：UL94V-0级环氧树脂
- 引出端：U型PVC线

典型应用
- 水泵马达或其它类马达用



Features
- Metallized Polypropylene Film, Non-inductive Wound construction
- Self-healing property
- Long life of High stability and reliability

Construction
- Dielectric: Polypropylene film
- Electrode: metallized film
- Case : column shape , engine plastic UL94V-0
- Filling material: Epoxy resin UL 94V0 class
- Terminals : U Type PVC Wire

Applications
- Water Pump motor or other motor

电气特性/ Specifications （在额定功率和额定温度下）

Item	Specification
引用标准/Reference standard	UL810-2012,IEC60252-1.2013, GB/T3667.1.2005,CNS4327 C7028
气候类别/Climatic category	25/85/21
频率/Frequency	50/60 Hz
额定电压/Rated voltage Unac	250V,350V,400V
容量范围/Capacitance Range(μF)	20uF,30uF,32uF,40uF,60uF,80uF(或按客户的要求)
散逸因素/Dissipation Factor	≤0.0100（100Hz,25°C)
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)，±10-5%(U)
绝缘电阻/Insulation Resistance	≥1,000s (100VDC,60s,20°C,RH≤65%)
端子间耐电压（Vtt) Withstand Voltage between terminals	175%*Unac , 2s
端子对外壳间耐电压(Vtc) Withstand Voltage between terminal and case	2500Vac ,50Hz, 2s
最大允许电压/Max permissible voltage	110%*Unac
最大允许电流/Max permissible current	130%*Inac
最大允许电压电流/Max permissible voltage and current	130%*Unac*In
耐久性测试/Endurance test	≥600H for 1.25*Ur at 85°C

安全认证/Safety approvals

Body(机构)	Approved Standard	Note
UL	UL810,Construction only	E465486
CUL	CSA C22.2 No.190	E465486
VDE*	EN 60252-1:2011	40043397

S0型金属化聚丙烯膜交流电动机电容器(圆柱型，塑胶外壳)
S0 Class Metallized Polypropylene Film AC Motor Capacitor（Column,plastic case）

特点
- 金属化聚丙烯膜，无感捲绕结构
- 良好自愈性
- 高稳定性和可靠性

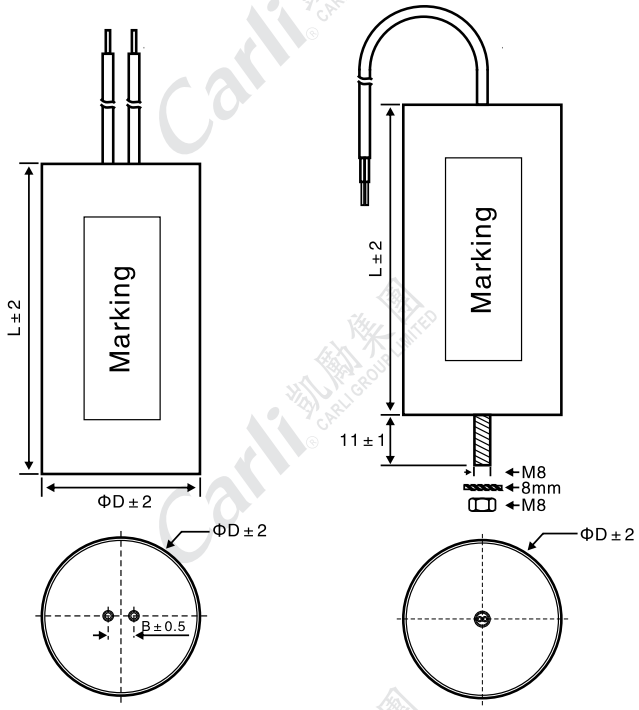
结构
- 电介质：聚丙烯膜
- 外壳：圆柱型，UL94V-0级工程塑料
- 填充料：UL94V-0级环氧树脂
- 引出端：V，U，P 或依客户要求

典型应用
- 适用於马达，电子扇，吊扇，排风机和其他设 备单相电机
- 交流滤波

Features
- Metallized Polypropylene Film, Non-inductive Wound construction
- Self-healing property
- High stability and reliability

Construction
- Dielectric: Polypropylene film
- Case : column shape , engine plastic UL94V0
- Filling material: Epoxy resin UL 94V-0 class
- Terminals : V ,U, P,or as customer required

Applications
- Motor, electronic fan,ceiling fan,exhaust fan and other equipments with single-phase motors
- AC Filter capacitor



电气特性/ Specifications （在额定功率和额定温度下）

电容器类别/Class	S0							
引用标准/Reference standard	UL810-2012,IEC60252-1,GB/T3667.1, JIS4908							
气候类别/Climatic category	25/85/21							
频率/Frequency	50/60 Hz							
额定电压/Rated voltage (Vac)	250VAC	300VAC	350VAC	400VAC	450VAC	500VAC	550VAC*	600VAC
容量范围/Capacitance range(μF)	6-120	6-120	4-100	3-90	3-80	3-70	3-60	3-60
散逸因素/Dissipation Factor	≤0.0050（1KHz,25°C,only refer for TC terminal)							
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)							
绝缘电阻/Insulation Resistance	≥1,000s (100VDC,60s,20°C,RH≤65%)							
端子间耐电压（TT) Withstand Voltage between terminals	175%*Unac , 2s							
端子对外壳间耐电压(TC) Withstand Voltage between terminal and case	2500Vac ,50Hz, 1min							
最大允许电压/Max permissible voltage	110%*Unac							
最大允许电流/Max permissible current	130%*In							
最大允许电压电流/Max permissible voltage and current	130%*Unac*In							

安全认证/Safety approvals

Body(机构)	Approved Standard	Note
UL	UL810,Construction only	E465486
CUL	CSA C22.2 No.190-M1985	E465486
VDE*	C级3000H,450V ; B级 10000H,450V400V,350V,250V	40043397

外形尺寸 Dimensions(mm)

250Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
6	35	52
7	35	52
8	35	52
9	35	52
10	35	52
12	35	52
15	35	52
8	35	62
9	35	62
10	35	62
12	35	62
15	35	62
16	35	62
18	35	62
20	40	62
22	40	62
24	40	62
25	40	62
27	40	62
28	40	62
30	40	62
33	40	72
35	40	72
37	40	72
40	40	72
42	45	72
45	45	72
47	45	72
50	45	72
55	50	72
60	50	72
65	50	72
70	50	72
75	45	97
80	45	97
85	50	97
90	50	97
95	50	97
100	50	97
105	50	97
110	55	97
115	55	97
120	55	97

300Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
6	35	52
7	35	52
8	35	52
9	35	52
9	35	52
10	35	62
12	35	62
14	40	62
15	40	62
16	40	62
18	40	62
20	40	62
22	40	72
24	40	72
25	45	72
27	45	72
30	45	72
32	45	72
33	45	72
35	45	72
37	50	72
40	50	72
43	50	72
45	45	97
47	45	97
50	45	97
55	50	97
60	50	97
63	50	97
65	50	97
70	50	97
75	55	97
80	55	97
85	50	125
90	50	125
95	55	125
100	55	125
105	55	125
110	55	125
115	60	125
120	60	125

350Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
4	35	52
4.5	35	52
5	35	52
6	35	52
7	35	52
8	35	62
9	40	62
10	40	62
12	40	62
14	40	62
15	40	72
16	40	72
18	45	72
20	45	72
22	45	72
24	45	72
25	50	72
27	50	72
30	50	72
33	45	97
35	45	97
37	45	97
40	50	97
43	50	97
45	50	97
47	50	97
50	55	97
55	55	97
60	55	97
65	60	97
70	60	97
65	50	125
70	55	125
75	55	125
80	55	125
85	60	125
90	60	125
95	60	125
100	65	125

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外形尺寸 Dimensions(mm)

400Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
3	35	52
3.5	35	52
4	35	52
4.5	35	52
5	35	52
5.5	35	52
6	35	62
7	40	62
8	40	62
9	40	62
10	40	62
11	40	62
12	40	72
14	40	72
15	40	72
16	45	72
17	45	72
18	45	72
20	45	72
22	50	72
24	50	72
25	50	72
27	50	72
25	45	97
27	45	97
30	45	97
32	45	97
33	50	97
35	50	97
36	50	97
38	50	97
40	50	97
42	50	97
44	55	97
45	55	97
47	55	97
50	55	97
55	60	97
60	60	97
65	65	97
40	50	125

400Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
45	50	125
50	50	125
55	50	125
60	55	125
65	55	125
70	55	125
75	60	125
80	60	125
85	65	125
90	65	125

450Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
3	35	52
3.5	35	52
4	35	52
4.5	35	52
5	35	62
5.5	35	62
6	35	62
6.5	35	62
7	40	62
7.5	40	62
8	40	62
9	40	62
10	40	62
10	40	72
11	40	72
12	40	72
14	45	72
15	45	72
16	45	72
17	45	72
18	45	72
20	50	72
22	50	72
23	50	72
20	45	97

450Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
22	45	97
23	45	97
24	45	97
25	45	97
26	45	97
27	45	97
28	50	97
30	50	97
32	50	97
33	50	97
35	50	97
36	50	97
38	55	97
40	55	97
42	55	97
44	55	97
45	55	97
47	60	97
50	60	97
55	60	97
60	65	97
33	50	125
35	50	125
37	50	125
40	50	125
43	50	125
45	50	125
47	50	125
50	55	125
55	55	125
60	55	125
65	60	125
70	60	125
75	65	125
80	65	125

外形尺寸 Dimensions(mm)

500Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
3	35	52
3.5	35	52
4	35	52
4.5	35	62
5	35	62
5.5	35	62
6	40	62
6.5	40	62
7	40	62
7.5	40	62
8	40	62
9	40	72
10	40	72
12	45	72
14	45	72
15	45	72
16	50	72
18	50	72
20	50	72
20	45	97
22	45	97
23	45	97
24	45	97
25	50	97
26	50	97
28	50	97
30	50	97
32	55	97
33	55	97
35	55	97
36	55	97
38	55	97
40	55	97
42	60	97

500Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
44	60	97
45	60	97
47	60	97
50	65	97
28	50	125
30	50	125
33	50	125
35	50	125
37	50	125
40	50	125
43	55	125
45	55	125
47	55	125
50	60	125
55	60	125
60	60	125
65	65	125
70	65	125

550Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
3	35	52
3.5	35	52
4	35	62
4.5	35	62
5	35	62
5.5	40	62
6	40	62
6.5	40	62
7	40	62
5.5	35	72
6	35	72
6.5	35	72
7	40	72

550Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
7.5	40	72
8	40	72
9	40	72
10	40	72
12	45	72
14	50	72
15	50	72
16	50	72
17	50	72
15	45	97
18	45	97
20	45	97
22	50	97
23	50	97
24	50	97
25	50	97
26	50	97
27	55	97
28	55	97
30	55	97
32	55	97
33	55	97
35	55	97
36	60	97
38	60	97
40	60	97
30	50	125
33	50	125
35	50	125
37	55	125
40	55	125
42	55	125
44	55	125
45	55	125
47	55	125
50	60	125
55	60	125
60	65	125

外形尺寸 Dimensions(mm)

600Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
3	35	62
3.5	35	62
4	40	62
4.5	40	62
5	40	62
5.5	40	62
6	40	62
6.5	40	72
7	40	72
7.5	40	72
8	45	72
9	45	72
10	45	72
11	50	72
12	50	72
13	50	72
14	50	72
15	45	97
16	45	97
17	50	97
18	50	97
20	50	97
22	50	97
23	55	97
24	55	97
25	55	97
26	55	97
27	55	97
28	55	97
30	60	97
32	60	97
33	60	97

600Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
25	50	125
27	50	125
30	55	125
33	55	125
35	55	125
37	55	125
40	60	125
42	60	125
43	60	125
45	65	125
50	65	125

450V-VDE S0		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D(mm)	L(mm)
3	35	52
3.5	35	52
4	35	62
4.5	35	62
5	35	62
5.5	35	72
6	35	72
6.5	35	72
7	35	72
8	40	72
8.5	40	72
9	40	72
10	40	72
12	45	72
15	50	72
16	50	72
17	50	72
18	45	96
20	45	96
22	50	96
24	50	96
25	50	96
30	55	96
33	55	96
35	55	96
40	55	125
45	55	125
50	60	125
55	60	125
60	65	125

S3型金属化聚丙烯安全膜交流电动机电容器(圆柱型，塑胶外壳)
S3 class metallized polypropylene safety film AC motor capacitor (column,plastic case)

特点
- 金属化聚丙烯安全膜，无感捲绕结构
- 良好自愈性
- 高稳定性和可靠性

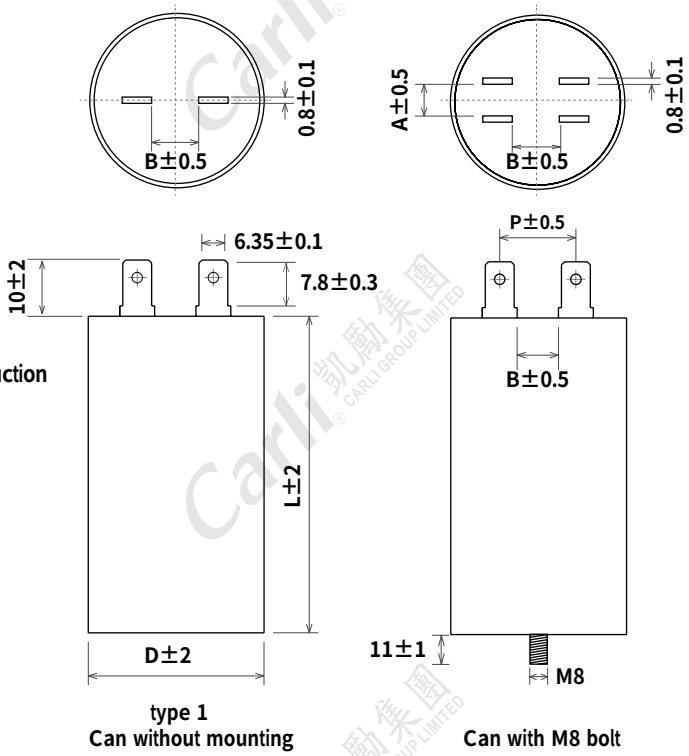
结构
- 电介质：聚丙烯膜
- 外壳：圆柱型，UL94V-0级工程塑料
- 填充料：UL94V-0级环氧树脂
- 引出端：V，U， P或依客户要求

典型应用
- 适用於马达，电子扇，吊扇，排风机和其他设备单相电机
- 交流滤波

Features
- Metallized Polypropylene Film, Non-inductive Wound construction
- Self-healing property
- High stability and reliability

Construction
- Dielectric: Polypropylene film
- Case : column shape , engine plastic UL94V-0
- Filling material: Epoxy resin UL 94V0 class.
- Terminals : V ,U, P,or as customer required

Applications
- Motor, electronic fan,ceiling fan,exhaust fan and other equipments with single-phase motors.
- AC Filter capacitor



type 1
Can without mounting

Can with M8 bolt

电气特性/ Specifications （在额定功率和额定温度下）

电容器类别/Class	S3							
引用标准/Reference standard	UL810-2012,IEC60252-1,GB/T3667.1, JIS4908							
气候类别/Climatic category	25/85/21							
频率/Frequency	50/60 Hz							
额定电压/Rated voltage(Vac)	250V	300V	350V	400V	450V	500V*	550V	600V
容量范围/Capacitance range(μF)	7~120	7~120	5~100	4~90	3~65	2.7~40	3~50	2~40
散逸因素/Dissipation Factor	≤0.0050（1KHz,25°C,only refer for V terminal)							
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)							
绝缘电阻/Insulation Resistance	≥1,000s (100VDC,60s,20°C,RH≤65%)							
端子间耐电压（Vtt) Withstand Voltage between terminals	175%*Unac , 2s							
端子对外壳间耐电压(Vtc) Withstand Voltage between terminal and case	2500Vac ,50Hz, 1min							
最大允许电压/Max permissible voltage	110%*Unac							
最大允许电流/Max permissible current	130%*In							
最大允许电压电流/Max permissible voltage and current	130%*Unac*In							

安全认证/Safety approvals

Body(机构)	Approved Standard	Note
UL	UL810,10000AFC Protected	E465078

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外形尺寸 Dimensions(mm)

250Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
7	35	52
7.5	35	52
8	35	52
9	35	62
10	35	62
11	35	62
12	35	62
13	40	62
15	40	62
16	40	62
17	40	62
18	40	72
20	40	72
22	40	72
25	45	72
27	45	72
30	45	72
32	45	72
35	50	72
38	50	72
40	50	72
43	45	97
45	45	97
47	45	97
50	45	97
55	50	97
57	50	97
60	50	97
65	50	97
70	55	97
75	55	97
80	55	97
80	50	125
85	50	125
90	50	125
95	55	125
100	55	125
105	55	125
110	55	125
115	60	125
120	60	125

300Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
7	35	52
7.5	35	52
8	35	52
9	35	62
10	35	62
11	35	62
12	35	62
13	40	62
15	40	62
16	40	62
17	40	62
18	40	72
20	40	72
22	40	72
25	45	72
27	45	72
30	45	72
32	45	72
35	50	72
38	50	72
40	50	72
43	45	97
45	45	97
47	45	97
50	45	97
55	50	97
57	50	97
60	50	97
65	50	97
70	55	97
75	55	97
80	55	97
80	50	125
85	50	125
90	50	125
95	55	125
100	55	125
105	55	125
110	55	125
115	60	125
120	60	125

350Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
5	35	52
5.5	35	52
6	35	62
6.5	35	62
7	35	62
7.5	35	62
8	35	62
9	40	62
10	40	62
11	40	62
12	40	62
13	40	72
15	40	72
16	40	72
17	45	72
18	45	72
20	45	72
22	45	72
24	50	72
25	50	72
27	50	72
30	45	97
33	45	97
35	45	97
37	50	97
40	50	97
42	50	97
45	50	97
47	55	97
50	55	97
55	55	97
58	55	97
60	60	97
65	60	97
70	60	97
75	65	97
60	50	125
65	55	125
70	55	125
75	55	125
80	55	125
85	60	125
90	60	125
95	60	125
100	65	125

外形尺寸 Dimensions(mm)

400Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
4	35	52
4.5	35	52
5	35	52
5.5	35	62
6	35	62
6.5	35	62
7	35	62
8	40	62
9	40	62
10	40	62
10	40	72
11	40	72
12	40	72
13	40	72
15	45	72
16	45	72
17	45	72
18	45	72
20	50	72
22	50	72
25	45	97
27	45	97
30	45	97
33	50	97
35	50	97
37	50	97
40	55	97
45	55	97
47	55	97
50	55	97
45	50	125
47	50	125
50	50	125
55	55	125
60	55	125
65	55	125
70	60	125
75	60	125
80	60	125
85	65	125
90	65	125

450Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
3	35	52
3.5	35	52
4	35	62
4.5	35	62
5	35	62
5.5	35	62
6	40	62
7	40	62
7.5	40	62
8	40	62
9	40	72
10	40	72
11	45	72
12	45	72
13	45	72
15	50	72
17	50	72
18	50	72
20	45	97
22	45	97
24	50	97
25	50	97
27	50	97
28	50	97
30	55	97
33	55	97
35	55	97
40	60	97
45	60	97
35	50	125
40	50	125
43	55	125
45	55	125
47	55	125
50	55	125
55	60	125
60	60	125
65	65	125

500Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
2.7	35	52
3	35	52
3.3	35	52
3.5	35	62
3.8	35	62
4	35	62
4.5	35	62
4.7	35	62
5	40	62
5.5	40	62
6	40	62
6.5	40	62
7	40	62
7	40	72
7.5	40	72
8	40	72
9	40	72
10	45	72
11	45	72
12	45	72
13	50	72
14	50	72
15	50	72
16	50	72
15	45	96
16	45	96
17	45	96
18	45	96
20	50	96
22	50	96
25	50	96
27	55	96
30	55	96
35	60	96
40	65	96
30	50	125
33	50	125
35	50	125
38	55	125
40	55	125

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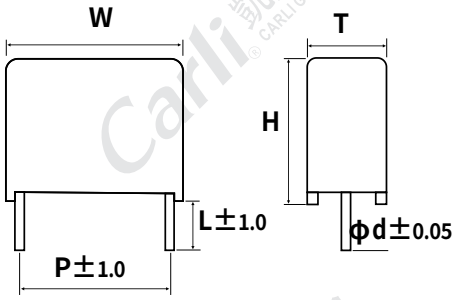
外形尺寸 Dimensions(mm)

550Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
3	35	62
3.3	35	62
3.5	35	62
3.7	35	62
4	35	62
5	40	62
6	40	62
7	40	72
8	40	72
9	45	72
10	45	72
11	45	72
12	50	72
13	50	72
14	50	72
15	45	97
17	45	97
18	50	97
20	50	97
22	50	97
25	55	97
27	55	97
30	60	97
33	60	97
35	60	97
28	50	125
30	50	125
33	55	125
35	55	125
37	55	125
40	55	125
43	60	125
45	60	125
47	60	125
50	65	125

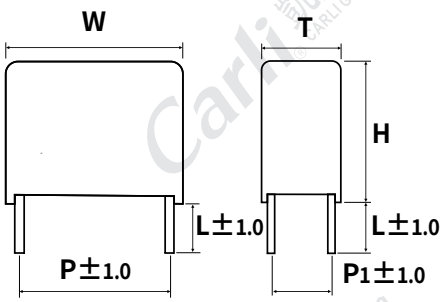
600Vac		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
2	35	52
2.2	35	52
2.5	35	62
2.7	35	62
3	35	62
3	35	62
3.3	35	62
3.5	40	62
4	40	62
4.5	40	62
5	40	62
5	40	72
6	40	72
7	45	72
8	45	72
8.5	45	72
9	50	72
10	50	72
11	50	72
11	45	97
12	45	97
13	45	97
15	50	97
16	50	97
17	50	97
18	50	97
20	55	97
22	55	97
20	50	125
22	50	125
25	50	125
27	55	125
30	55	125
33	60	125
35	60	125
37	60	125
40	65	125

450VAC-VDE S3		
Cap (μF)	DIMENSIONS 尺寸 (mm)	
	D (mm)	L (mm)
2.7	35	52
3	35	52
3.3	35	52
3.5	35	62
3.8	35	62
4	35	62
4.5	35	62
4.7	35	62
5	40	62
5.5	40	62
6	40	62
6.5	40	62
7	45	62
7	40	72
7.5	40	72
8	40	72
9	45	72
10	45	72
11	45	72
12	50	72
13	50	72
14	50	72
15	55	72
16	55	72
15	45	96
16	45	96
17	45	96
18	45	96
20	50	96
22	50	96
25	55	96
27	55	96
30	60	96
35	60	96
40	65	96
30	50	125
33	55	125
35	55	125
38	55	125
40	55	125

DC-Link 用金属化聚丙烯膜电容器
Metallized Polypropylene Film Capacitor for DC-Link application



2-pin



4-pin

特点
- 良好自愈性
- 高温耐压T/T:1.5*Undc(105°C,60S),产品漏电流≤10mA;
  T/C:3000VAC/60S,不发生闪烁或介质击穿
- 采用自主研发技术有效大幅降低ESL、ESR与产品内部温升
- 双85实验：Undc,RH85%,85°C, 500H,△C≤±10%
  Undc,RH85%,85°C,1000H,△C≤±10%

结构
- 双85金属化PP膜无感结构
- 铜导线或铜端子引出
- 阻燃性PPS塑胶壳，高密度环氧树脂封装
- 干式电容

典型应用
- 用途：高性能直流滤波场合，如:变频器，工业和高频电源，太阳能逆变器等

Features
- Self-healing is excellent
- High temperature and with stand voltage
  T/T:1.5*Undc(105°C,60S),the leakage current of product is≤10mA;
  T/C:3000VAC/60S,No flashover or permanent breakdown shall occur
- It uses the reasearch skill by self which can reduces the ESL,ESR,and also reduces the inetrnal temperature rising.
- Double 85：Undc,RH85°C,85°C, 500H,△C≤±10%
  Undc,RH85%,85°C, 1000H,△C≤±10%

Construction
- Double 85 Metallized Polypropylene film Non-inductive consturction
- CU lead wire or Cu terminals connected
- Flame retardant PPS plastic case and high density epoxy resin encapsulated
- Dry type structure

Applications
- Frequency converters , Industrial and high-end powersupllies , Solar invertor

电气特性/ Specifications （在额定功率和额定温度下）

电容器类别/Class	MKP						
引用标准/Reference standard	IEC61071,GBT17702.1:2013						
气候类别/Climatic category	40/85/21						
工作温度/Operating Temperature	-40°C~+105°C (RH85%,+85°C~+105°C:derating factor1.5% per°C for Un(DC)and AC current Irms,85°C～105°C时Dc电压和AC电流Irms衰减系数 1.5%/度)						
Uopdc at 70°C 运行电压	500V	600V	800V	900V	1000V	1200V	1300V
Undc at 85°C RH 85% 额定电压	450V	500V	700V	800V	900V	1100V	1200V
Uopdc at 105°C RH 85% 运行电压	300V	350V	490V	560V	630V	770V	840V
Capacitance range(μF)	3.3~180	3.3~120	2.0~100	2.0~80	1.0~65	1.0~40	0.68~30
散逸因素/Dissipation Factor	≤0.0030（1Khz,25°C) ,C ≤50uF; ≤0.0120（1Khz,25°C),50uF < C ≤ 180uF						
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)						
绝缘电阻/Insulation Resistance	≥30,000s (100VDC,60s,20°C)						
ESR(at 10KHZ)	ESR< 3* ESRtyp						
端子间耐电压（Vtt)/Withstand Voltage between T/T	1.5*Undc , 10s						
端子对外壳耐电压/Withstand Voltage between T/C	3000Vac / 50HZ, 60S						
自有电感/self inductance	≤ 1nH/mm of fixed pitch						
工作寿命/Operation life time	100，000 hrs at Un and 70°C						

*note : We can design the capacitors as customer's requests 可依照客户需求设计.

MKP capacitor for DC-Link application,C:3.3μF~180μF
Uop=500VDC at 70°C ; U_N=450vdc at 85°C ;Uop=300vdc at 105°C ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dφ&t (±0.05mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70° C) (A)	ESR(10KHz) (mΩ)	CC
3.3	32	20	11	27.5	-	0.8	30	99	4	15	TS32
4.7	32	22	13	27.5	-	0.8	30	141	5	12	TS34
5	32	22	13	27.5	-	0.8	30	150	5	11	TS34
6.8	32	25	15	27.5	-	1	30	204	6	9.5	TS36
7	32	25	15	27.5	-	1	30	210	6	9.5	TS36
7.5	32	25	15	27.5	-	1	30	225	6	9	TS36
8	32	25	15	27.5	-	1	30	240	6.5	8.5	TS36
10	32	28	17	27.5	-	1	30	300	7.5	7.5	TS37
10	32	33	18	27.5	-	1	30	300	7.5	7	TS3A
12	32	30	18	27.5	-	1	30	360	8.5	6.5	TS39
12	32	33	18	27.5	-	1.2	30	360	8	6.5	TS3A
15	32	33	18	27.5	-	1	30	450	9	6.5	TS3A
18	32	35	20	27.5	-	1.2	30	540	10	6.5	TS3c
20	32	37	22	27.5	-	1.2	30	600	10.5	6	TS3C
22	32	37	22	27.5	-	1.2	30	660	11	6	TS3C
10	42.5	26	15	37.5	-	1	21	210	7	11	S429
10	42.5	19	24	37.5	-	1	21	210	7	11	TS4a
12	42.5	26	15	37.5	-	1	21	252	7.5	10	S429
12	42.5	18	27	37.5	10.2	1	21	252	8.5	11	TS4Y
15	42.5	28	17	37.5	10.2	1	21	315	9	11	TS49
15	42.5	30	22	37.5	10.2	1.2	21	315	10	10	TS4R
20	42.5	30	22	37.5	10.2	1.2	21	420	11	10	TS4R
25	42.5	33.5	22	37.5	10.2	1.2	21	525	11.5	9	TS4S
30	42.5	37	22	37.5	10.2	1.2	21	630	12	9	S426
35	42.5	37	24	37.5	10.2	1.2	21	735	13	9	S424
40	42.5	43	28	37.5	10.2	1.2	21	840	13.5	9	S42A
40	57.5	38	23	52.5	10.2	1.2	14	560	12	9	TS57
45	57.5	45	25	52.5	10.2	1.2	14	630	13	9	TS56
50	57.5	45	25	52.5	10.2	1.2	14	700	14	9	TS56
55	57.5	45	30	52.5	20.3	1.2	14	770	15	8.5	TS5F
60	57.5	45	30	52.5	20.3	1.2	14	840	16	8.5	TS5F
65	57.5	45	30	52.5	20.3	1.2	14	910	17	8	TS5F
70	57.5	50	35	52.5	20.3	1.2	14	980	17.5	8	TS5E
75	57.5	50	35	52.5	20.3	1.2	14	1050	18	8	TS5E
80	57.5	50	35	52.5	20.3	1.2	14	1120	18.5	7.5	TS5E
85	57.5	50	35	52.5	20.3	1.2	14	1190	19	7.5	TS5E
90	57.5	53	38	52.5	20.3	1.2	14	1260	20	7	S573
95	57.5	53	38	52.5	20.3	1.2	14	1330	21	7	S573
100	57.5	53	38	52.5	20.3	1.2	14	1400	22	7	S573
110	57.5	57.5	38	52.5	20.3	1.2	14	1540	23	6	S571
120	57.5	56	42.5	52.5	20.3	1.2	14	1680	25	6	S574
150	57.5	56	42.5	52.5	20.3	1.2	14	2100	30	5	S574
180	57.5	48	60	52.5	20.3	1.2	14	2520	35	4.5	S577
85	57.5	53	50	LT	-	-	14	1190	19.5	6	S572
90	57.5	53	50	LT	-	-	14	1260	19.5	6	S572
95	57.5	53	50	LT	-	-	14	1330	20	6	S572
100	57.5	53	50	LT	-	-	14	1400	20	6	S572
110	57.5	53	50	LT	-	-	14	1540	21	5	S572
120	57.5	53	50	LT	-	-	14	1680	22	5	S572
150	57.5	53	50	LT	-	-	14	2100	25	4.5	S572

MKP capacitor for DC-Link application,C:3.3μF~120μF
Uop=600VDC at 70°C ; U_N=500vdc at 85°C ; Uop=350vdc at 105°C ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dφ&t (±0.05mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70° C) (A)	ESR(10KHz) (mΩ)	CC
3.3	32	22	13	27.5	-	0.8	35	115.5	4	15	TS34
4.7	32	25	15	27.5	-	0.8	35	164.5	5	12	TS36
5	32	25	15	27.5	-	1	35	175	6	11	TS36
6.8	32	28	17	27.5	-	1	35	238	7	9.5	TS37
7	32	28	17	27.5	-	1	35	245	7	9.5	TS37
7.5	32	28	17	27.5	-	1	35	262.5	7.5	9	TS37
8	32	30	18	27.5	-	1	35	280	7.5	8.5	TS39
10	32	33	18	27.5	-	1.2	35	350	8.5	7.5	TS3A
12	32	35	20	27.5	-	1.2	35	420	9.5	6.5	TS3c
15	32	37	22	27.5	-	1.2	35	525	10.5	6.5	TS3C
10	42.5	28	17	37.5	-	1	22	220	8	11	TS49
10	42.5	19	24	37.5	-	1	22	220	8	11	TS4a
12	42.5	28	17	37.5	-	1	22	264	8	10	TS49
12	42.5	18	27	37.5	10.2	1	22	264	8.5	11	TS4Y
15	42.5	30	22	37.5	10.2	1	22	330	10	11	TS4R
20	42.5	33.5	22	37.5	10.2	1	22	440	11	10	TS45
25	42.5	37	28	37.5	10.2	1.2	22	550	12	9	TS4S
30	42.5	43	28	37.5	10.2	1.2	22	660	13	9	S42A
35	42.5	45	30	37.5	10.2	1.2	22	770	13	9	S422
40	42.5	50	30	37.5	10.2	1.2	22	880	15	9	S425
40	57.5	45	25	52.5	10.2	1.2	14	560	13	9	TS56
45	57.5	45	25	52.5	10.2	1.2	14	630	14	9	TS56
50	57.5	45	30	52.5	10.2	1.2	14	700	14.5	9	TS5F
55	57.5	45	30	52.5	20.3	1.2	14	770	15	8.5	TS5F
60	57.5	45	30	52.5	20.3	1.2	14	840	16	8.5	TS5F
65	57.5	50	35	52.5	20.3	1.2	14	910	17	8	TS5E
70	57.5	50	35	52.5	20.3	1.2	14	980	17.5	8	TS5E
75	57.5	50	35	52.5	20.3	1.2	14	1050	18	8	TS5E
80	57.5	50	35	52.5	20.3	1.2	14	1120	18.5	7.5	TS5E
85	57.5	53	38	52.5	20.3	1.2	14	1190	19	7.5	S573
90	57.5	53	38	52.5	20.3	1.2	14	1260	20	7	S573
95	57.5	57.5	38	52.5	20.3	1.2	14	1330	21	7	S571
100	57.5	57.5	38	52.5	20.3	1.2	14	1400	22	7	S571
110	57.5	55	45	52.5	20.3	1.2	14	1540	30	6	S575
120	57.5	48	60	52.5	20.3	1.2	14	1680	32	6	S577

MKP capacitor for DC-Link application,C:2.0μF~100μF
Uop=800VDC at 70°C ; U_N=700vdc at 85°C ; Uop=490vdc at 105°C ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dφ&t (±0.05mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70° C) (A)	ESR(10KHz) (mΩ)	CC
2	32	20	11	27.5	-	0.8	40	80	4	30	TS32
2.5	32	22	13	27.5	-	0.8	40	100	4.5	25	TS34
3	32	22	13	27.5	-	0.8	40	120	5	23	TS34
3.5	32	25	15	27.5	-	0.8	40	140	5	20	TS36
4	32	25	15	27.5	-	1	40	160	6	17	TS36
4.5	32	25	15	27.5	-	1	40	180	6.5	15	TS36
5	32	28	17	27.5	-	1	40	200	6.5	14	TS37
6	32	28	17	27.5	-	1	40	240	7	11.5	TS37
6.5	32	30	18	27.5	-	1	40	260	7.5	11	TS39
7	32	30	18	27.5	-	1	40	280	8	10	TS37
8	32	33	18	27.5	-	1	40	320	8	8.5	TS3A
9	32	35	20	27.5	-	1	40	360	9	8	TS3c
10	32	37	22	27.5	-	1.2	40	400	9.5	7	TS3C
12	32	40	22	27.5	-	1.2	40	480	8.5	6.5	S323
10	42.5	32	17	37.5	10.2	1	22	220	8	12	S42B
10	42.5	20	27	37.5	10.2	1	22	220	8	12	S428
12	42.5	30	22	37.5	10.2	1	22	264	9	11.5	TS4R
15	42.5	37	22	37.5	10.2	1	22	330	10.5	8	S426
15	42.5	24	30	37.5	10.2	1	22	330	10.5	8	TS4Z
20	42.5	37	28	37.5	10.2	1	22	440	11.5	6	S422
25	42.5	43	28	37.5	10.2	1.2	22	550	12.5	5.5	S42A
25	42.5	27	40	37.5	20.3	1.2	22	550	13	5.5	S420
30	42.5	45	30	37.5	20.3	1.2	22	660	14	5	S422
33	42.5	45	33	37.5	20.3	1.2	22	726	15	4	S42C
30	57.5	45	25	52.5	20.3	1.2	15	450	12	8	TS56
35	57.5	45	25	52.5	20.3	1.2	15	525	13	7	TS56
40	57.5	45	30	52.5	20.3	1.2	15	600	13.5	6	TS5F
45	57.5	45	30	52.5	20.3	1.2	15	675	15	5.5	TS5F
50	57.5	50	30	52.5	20.3	1.2	15	750	16	5	TS5G
55	57.5	50	35	52.5	20.3	1.2	15	825	17	4.5	TS5E
60	57.5	50	35	52.5	20.3	1.2	15	900	18	4	TS5E
65	57.5	53	38	52.5	20.3	1.2	15	975	19	4	S573
70	57.5	53	38	52.5	20.3	1.2	15	1050	20	3.5	S573
75	57.5	57.5	38	52.5	20.3	1.2	15	1125	22	3	S571
80	57.5	56	42.5	52.5	20.3	1.2	15	1200	25	3	S574
85	57.5	55	145	52.5	20.3	1.2	15	1275	27	3	S575
100	57.5	48	60	52.5	20.3	1.2	15	1500	30	3	S577

MKP capacitor for DC - Link application,C:2.0 μ F~80 μ F
Uop=900VDC at 70°C ; U_N=800vdc at 85°C ; Uop=560vdc at 105°C ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dΦ&t (±0.05mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70° C) (A)	ESR(10KHz) (mΩ)	CC
2	32	22	13	27.5	-	1	50	100	4	30	TS34
3.3	32	25	15	27.5	-	1	50	165	5	20	TS36
5	32	33	18	27.5	-	1	50	250	6	13	TS3A
8	32	37	22	27.5	-	1	50	400	7.5	10	TS3C
10	32	40	22	27.5	-	1	50	500	9	9	S323
5	42.5	26	15	37.5	-	1	35	175	6	16	TS49
5	42.5	19	24	37.5	-	1	35	175	6.5	16	TS4a
7.5	42.5	32	17	37.5	-	1	35	262.5	7.5	15	S42B
10	42.5	30	22	37.5	10.2	1	35	350	10	11	TS4R
15	42.5	37	28	37.5	10.2	1.2	35	525	11	8	TS4S
20	42.5	44	24	37.5	10.2	1.2	35	700	12	7	TS4W
22	42.5	45	30	37.5	20.3	1.2	35	770	12.5	6.5	S422
25	42.5	45	30	37.5	20.3	1.2	35	875	13.5	6.5	S422
30	42.5	50	35	37.5	20.3	1.2	35	1050	15	6	S42F
50	42.5	60	45	37.5	20.3	1.2	35	1750	25	4	S42E
30	57.5	45	30	52.5	20.3	1.2	22	660	13.5	6	TS5F
35	57.5	45	30	52.5	20.3	1.2	22	770	14	6	TS5F
40	57.5	50	30	52.5	20.3	1.2	22	880	14.5	6	TS5G
45	57.5	50	35	52.5	20.3	1.2	22	990	15.5	6	TS5E
50	57.5	50	35	52.5	20.3	1.2	22	1100	16.5	5.5	TS5E
55	57.5	53	38	52.5	20.3	1.2	22	1210	17.5	5.5	S573
60	57.5	57.5	38	52.5	20.3	1.2	22	1320	19	4.5	S571
65	57.5	55	45	52.5	20.3	1.2	22	1430	20	4	S575
80	57.5	48	60	52.5	20.3	1.2	22	1760	12	8	TS56

Carli 凱勵集團 CARLI GROUP LIMITED

MKP capacitor for DC-Link application,C:1.0μF~65μF
Uop=1000VDC at 70°C ; U_N=900vdc at 85°C ; Uop=630vdc at 105°C ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dφ&t (±0.05mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70° C) (A)	ESR(10KHz) (mΩ)	CC
1	32	20	11	27.5	-	1	75	75	4.5	25	TS32
1.5	32	22	13	27.5	-	1	75	112.5	5	18	TS34
2	32	22	13	27.5	-	1	75	150	5.5	15	TS34
2.2	32	22	13	27.5	-	1	75	165	4.5	25	TS34
2.5	32	25	15	27.5	-	1	75	187.5	4.5	25	TS36
3	32	25	15	27.5	-	1	75	225	5	21	TS36
3.3	32	28	17	27.5	-	1	75	247.5	5.5	20	TS37
4	32	28	17	27.5	-	1	75	300	6	16	TS37
4.7	32	30	18	27.5	-	1	75	352.5	6.5	14	TS39
5	32	33	18	27.7	-	1	75	375	7	13	TS3A
6	32	31	22	27.5	-	1	75	450	8	10	TS3F
7	32	35	20	27.5	-	1.2	75	525	9	9	TS3c
5	42.5	28	17	37.5	-	1	54	270	7	16	TS49
5	42.5	19	24	37.5	-	1	54	270	7	16	TS4a
6	42.5	28	17	37.5	-	1	54	324	7.5	16	TS49
7	42.5	30	22	37.5	-	1	54	378	7.5	15	TS4R
7.5	42.5	30	22	37.5	-	1	54	405	8	15	TS4R
8	42.5	30	22	37.5	10.2	1	54	432	9	14	TS4R
9	42.5	30	22	37.5	10.2	1	54	486	10	12	TS4R
10	42.5	33.5	22	37.5	10.2	1	54	540	11	11	TS45
12	42.5	40	20	37.5	10.2	1	54	648	11.5	9	S421
15	42.5	37	28	37.5	10.2	1	54	810	12.5	8	TS4S
15	42.5	37	28	LT	-	-	54	810	14	8	TS4S
15	42.5	44	24	37.5	10.2	1.2	54	810	12.5	8	TS4W
15	42.5	44	24	LT	-	-	54	810	12.5	8	TS4W
20	42.5	45	30	37.5	20.3	1.2	54	1080	14	7	S422
20	42.5	45	30	LT	-	-	54	1080	15	7	S422
25	42.5	50	35	37.5	20.3	1.2	54	1350	17	6	S42F
40	42.5	60	45	37.5	20.3	1.2	54	2160	25	5	S42E
20	57.5	38	26	52.5	10.2	1.2	35	700	11	7	S578
25	57.5	45	30	52.5	20.3	1.2	35	875	12	6.5	TS5F
25	57.5	45	30	52.5	LT	-	35	875	13	6.5	TS5F
30	57.5	45	30	52.5	20.3	1.2	35	1050	14	6	TS5F
35	57.5	50	35	52.5	20.3	1.2	35	1225	15	6	TS5E
40	57.5	50	35	52.5	20.3	1.2	35	1400	16	6	TS5E
45	57.5	53	38	52.5	20.3	1.2	35	1575	17	6	S573
50	57.5	57.5	38	52.5	20.3	1.2	35	1750	17.5	5.5	S571
55	57.5	55	45	52.5	20.3	1.2	35	1925	20	5.5	S575
65	57.5	48	60	52.5	20.3	1.2	35	2275	25	5	S577

MKP capacitor for DC - Link application,C:1.0 μ F~40 μ F
Uop=1200VDC at 70°C ; U_N=1100vdc at 85°C ; Uop=770vdc at 105°C ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dΦ&t (±0.05mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70° C) (A)	ESR (10KHz) (mΩ)	CC
1	32	20	11	27.5	-	0.8	100	100	3.5	22	TS32
2	32	25	15	27.5	-	1	100	200	5.5	18	TS36
3	32	30	18	27.5	-	1	100	300	6	16	TS39
4	32	35	20	27.5	-	1	100	400	7	12	TS3c
5	32	37	22	27.5	-	1	100	500	8	10	TS3C
5	32	37	22	27.5	10.2	1	100	500	8.5	9.5	TS3C
6	32	45	22	27.5	10.2	1	100	600	9	9	S324
7	32	40	28	27.5	10.2	1	100	700	10	8.5	S321
8	32	45	30	27.7	20.3	1.2	100	800	11	8	S322
9	32	45	30	27.5	20.3	1.2	100	900	12	8	S322
5	42.5	30	22	37.5	10.2	1	73	365	8	16	TS4R
6	42.5	30	22	37.5	10.2	1	73	438	9	13.5	TS4R
7	42.5	37	22	37.5	10.2	1	73	511	9.5	12	S426
7.5	42.5	37	22	37.5	10.2	1.2	73	547.5	10	11	S426
8	42.5	37	24	37.5	10.2	1.2	73	584	10.5	11	S424
9	42.5	37	24	37.5	10.2	1.2	73	657	11	10	S424
10	42.5	37	28	37.5	10.2	1.2	73	730	12	8	TS4S
10	42.5	44	24	37.5	10.2	1.2	73	730	12	8	TS4W
12	42.5	43	28	37.5	10.2	1.2	73	876	13	6.5	S42A
14	42.5	45	30	37.5	20.3	1.2	73	1022	14	6	S422
15	42.5	48	33	37.5	20.3	1.2	73	1095	15	6	S423
18	42.5	50	35	37.5	20.3	1.2	73	1314	17	5	S42F
28	42.5	60	45	37.5	20.3	1.2	73	2044	25	4.5	S42E
15	57.5	45	25	52.5	20.3	1.2	50	750	13	10.5	TS56
20	57.5	45	30	52.5	20.3	1.2	50	1000	13.5	8	TS5F
25	57.5	50	35	52.5	20.3	1.2	50	1250	14	6.5	TS5E
30	57.5	53	38	52.5	20.3	1.2	50	1500	15	5	S573
35	57.5	57.5	38	52.5	20.3	1.2	50	1750	16	5	S571
40	57.5	55	45	52.5	20.3	1.2	50	2000	17	5	S575
45	57.5	48	60	52.5	20.3	1.2	50	2250	18	4.5	S577
20	57.5	53	50	LT	-	-	50	1000	14	7	S572
25	57.5	53	50	LT	-	-	50	1250	15	6.5	S572
30	57.5	53	50	LT	-	-	50	1500	16	6	S572
35	57.5	53	50	LT	-	-	50	1750	17	5	S572
40	57.5	53	50	LT	-	-	50	2000	18	4.5	S572

MKP capacitor for DC-Link application,C:0.68μF~30μF
Uop=1300VDC at 70°C ; U_N=1200vdc at 85°C ; Uop=840vdc at 105°C ;

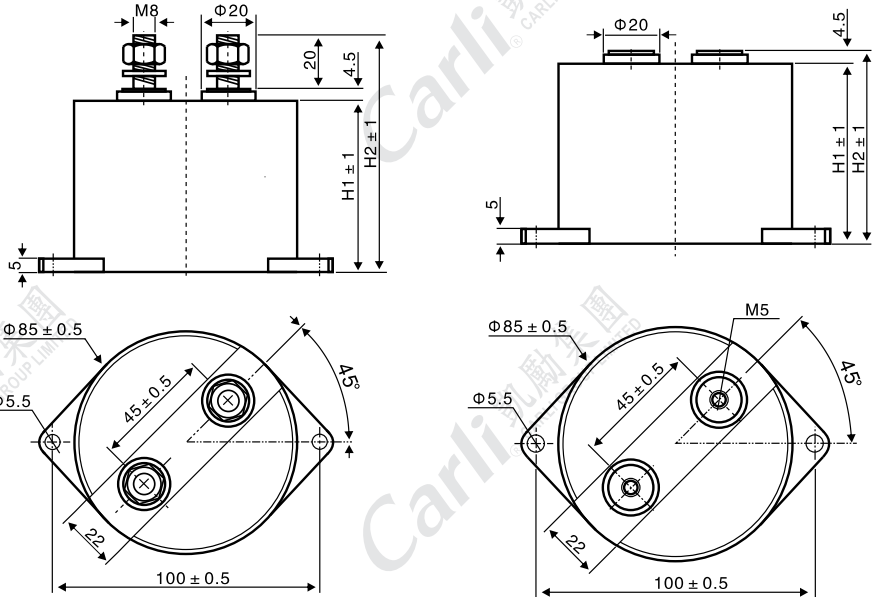
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dφ&t (±0.05mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70° C) (A)	ESR（10KHz) (mΩ)	CC
0.68	32	20	11	27.5	-	1	120	81.6	4	25	TS32
1	32	22	13	27.5	-	1	120	120	4.5	22	TS36
2	32	28	17	27.5	-	1	120	240	6	21	TS37
3	32	35	20	27.5	-	1	120	360	7	15	TS3c
3.6	32	37	22	27.5	-	1	120	432	8	14	TS3C
5	32	40	28	27.5	10.2	1	120	600	9	12	S323
6	32	45	30	27.5	20.3	1	120	720	10	11	S322
4	42.5	30	22	37.5	10.2	1	80	320	8	17	TS4R
5	42.5	33.5	22	37.5	10.2	1	80	400	9	15	TS45
6	42.5	39	24	37.5	10.2	1	80	480	10	12.5	S424
7	42.5	37	28	37.5	10.2	1.2	80	560	11	11	TS4S
8	42.5	43	28	37.5	10.2	1.2	80	640	11.5	9	S42A
10	42.5	45	30	37.5	20.3	1.2	80	800	12.5	8	S422
12	42.5	50	35	37.5	20.3	1.2	80	960	14	7	S42F
20	42.5	60	45	37.5	20.3	1.2	80	1600	25	5	S42E
12	57.5	45	25	52.5	20.3	1.2	60	720	13	12.5	TS56
15	57.5	45	30	52.5	20.3	1.2	60	900	13.5	11	TS5F
20	57.5	50	35	52.5	20.3	1.2	60	1200	14.5	7.5	TS5E
25	57.5	57.5	38	52.5	20.3	1.2	60	1500	15.5	6	S571
30	57.5	48	60	52.5	20.3	1.2	60	1800	18	5	S577
20	57.5	53	50	LT	-	-	60	1200	15.5	6	S572
25	57.5	53	50	LT	-	-	60	1500	16	5	S572
30	57.5	53	50	LT	-	-	60	1800	16	5	S572

DC-Link 用金属化聚丙烯膜电容器
Metallized Polypropylene Film Capacitor for DC-Link application

特点
- 低损失角
- 低等效串联电阻和杂散电感
- 良好自愈性
- 高稳定性和可靠性

结构
- 金属化PP膜无感结构
- 公或母式M6或M8螺丝铜端子引出
- 阻燃性塑胶壳，环氧树脂封装
- 干式电容

典型应用
- 用途：高性能直流滤波场合，如:变频器，工业高频电源，太阳能逆变器等。



Features
- Very low dissipation factor
- Very low ESR and ESL
- Excellent self-healing performance
- High stability and reliability

Construction
- Metallized Polypropylene film Non-inductive consturction
- male or female threaded terminals and bolt available connected
- Flame retardant plastic case and epoxy resin encapsulated
- Dry type structure

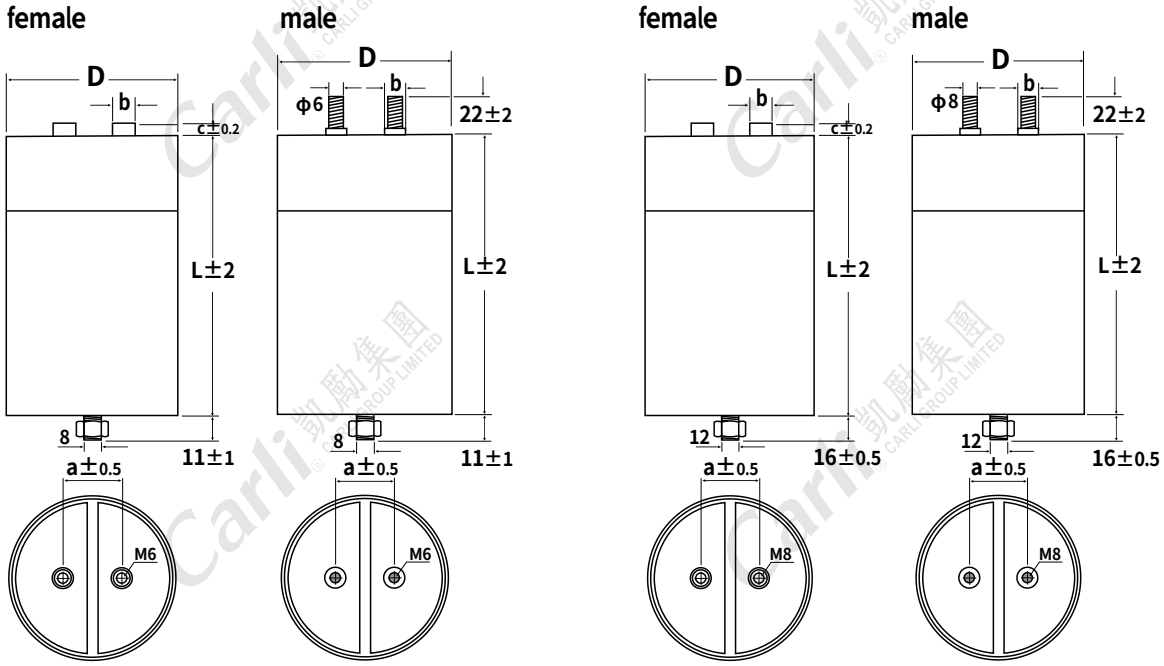
Applications
- Frequency converters , Industrial and high-end power supllies .Solar invertor

电气特性/ Specifications （在额定功率和额定温度下）

电容器类别/Class	MKR				
引用标准/Reference standard	IEC61071,GBT17702.1:2013				
气候类别/Climatic category	40/85/21				
工作温度/Operating Temperature	-40°C~+105°C (+85°C~+105°C:derating factor1.5% per°C for Un(DC)and AC current Irms,85～105°C时Dc电压和AC电流Irms衰减系数 2.5%/度)				
Uopdc at 70°C 运行电压	500V	800V	1000V	1200V	1300V
Undc at 85°C 额定电压	450V	700V	900V	1100V	1200V
Uopdc at 105°C 运行电压	300v	490v	630v	770v	840v
容量范围/Capacitance range(μF)	65-170	50-150	33-100	24-70	16-50
散逸因素/Dissipation Factor	≤0.01（1Khz,25°C) ,C ≤50uF; ≤0.02（1Khz,25°C),50uF < C ≤ 170 uF				
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)				
绝缘电阻/Insulation Resistance	≥5,000s (100VDC,60s,20°C)				
端子间耐电压（Vtt) Withstand Voltage between T/T	1.5*Undc , 10s				
端子对外壳耐电压 Withstand Voltage between T/C	3000Vac / 50HZ, 60S				
工作寿命/Operation life time	100，000 hrs at Un and 70°C				

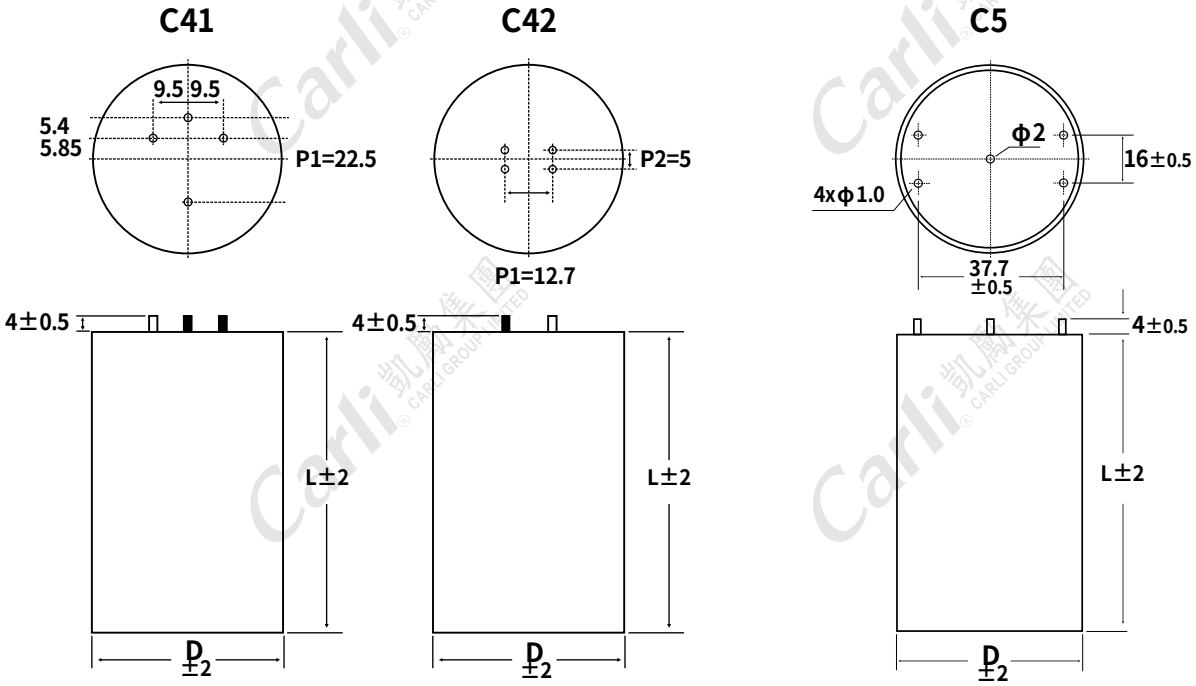
*note : We can design the capacitors as customer's requests 可依照客户需求设计.

Qutline drawings 尺寸图



S-Type

S-Type



C4-Type

C5-Type

DC-Link capacitor MKR -C5,C4 注：* 不同温度下的DC电压请参照特性表

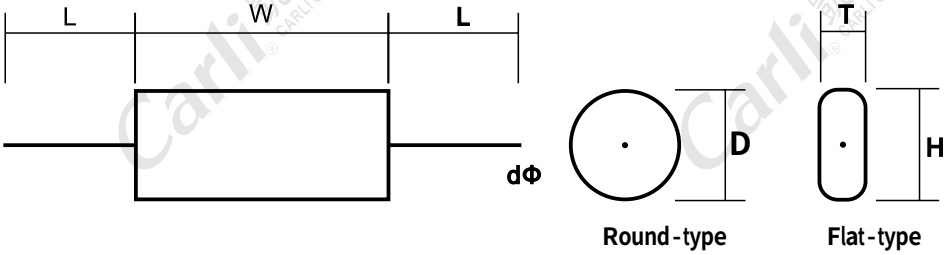
U_N dc at 85°C *	容量 (uF)	成品 D(mm)	成品 L(mm)	Pitch (mm)	Pitch1 (mm)	d	ESR (70°C ,10KHz) (mΩ)	DV/DT (V/μs)	Irms (70° C) (A)	CC
450	65	50	57	37.7	16	1	3	22	25	PP53
	85	50	72	37.7	16	1	5	14	30	PP73
	130	50	96	37.7	16	1	6	22	23	PP91
	170	50	125	37.7	16	1	8	14	28	PPA0
700	50	50	57	37.7	16	1	3	30	28	PP53
	75	50	72	37.7	16	1	5	20	30	PP73
	100	50	96	37.7	16	1	6	30	23	PP91
	150	50	125	37.7	16	1	8	20	28	PPA0
900	33	50	57	37.7	16	1	3	30	28	PP53
	50	50	72	37.7	16	1	5	20	30	PP73
	65	50	96	37.7	16	1	6	30	23	PP91
	100	50	125	37.7	16	1	8	20	28	PPA0
1100	24	50	57	37.7	16	1	3	60	22	PP53
	35	50	72	37.7	16	1	5	40	20	PP73
	48	50	96	37.7	16	1	5.5	60	25	PP91
	70	50	125	37.7	16	1	6	40	22	PPA0
1200	16	50	57	37.7	16	1	3	80	20	PP53
	25	50	72	37.7	16	1	5	50	23	PP73
	32	50	96	37.7	16	1	6	80	22	PP91
	50	50	125	37.7	16	1	8	50	25	PPA0

DC-Link capacitor MKR -SM,SG 注：* 不同温度下的DC电压请参照特性表

U_N dc at 85°C *	容量 (uF)	实际成品 D(mm)	实际成品 H(mm)	a (mm)	b(mm)	c(mm)	ESR (70°C 10KHz) (mΩ)	DV/DT (V/μs)	Irms (70° C) (A)	CC
450	230	85	62	32	12	6	5	18	18	PP6*
	320	85	72	32	12	6	4.5	12	20	PP7*
	460	85	96	32	12	6	4	18	20	PP9*
	640	85	125	32	12	6	3	12	25	PPA*
700	175	85	62	32	12	6	3	20	19	PP6*
	255	85	72	32	12	6	3.4	14	20	PP7*
	350	85	96	32	12	6	3	18	20	PP9*
	510	85	125	32	12	6	2.5	14	25	PPA*
900	110	85	62	32	12	6	4	25	26	PP6*
	160	85	72	32	12	6	3.4	18	26	PP7*
	220	85	96	32	12	6	3	25	22	PP9*
	320	85	125	32	12	6	2.5	18	22	PPA*
1100	75	85	62	32	12	6	4	27	27	PP6*
	115	85	72	32	12	6	3.4	20	27	PP7*
	160	85	96	32	12	6	3	27	25	PP9*
	220	85	125	32	12	6	2.5	20	25	PPA*
1200	55	85	62	32	12	6	3.5	36	25	PP6*
	80	85	72	32	12	6	3	25	25	PP7*
	110	85	96	32	12	6	2.5	36	28	PP9*
	160	85	125	32	12	6	2	25	28	PPA*

双面金属化聚丙烯膜IGBT吸收电容器 - SCA

Double-side Metallized Polypropylene Film snubber Capacitor for IGBT- SCA



1、名称：名称：型号 SCA 代号SA
2、结构：内部串联卷绕结构
2.1 、介质 : 聚丙烯膜
2.2 、电极 : 双面金属化膜
2.3 、引出端 : 铜片端或铜线
2.4 、封装 ：UL510聚酯胶带包裹和UL94V-0阻燃性环氧树脂封装

3、主要用途：IGBT吸收电容器
4、主要特性：
4.1 、广泛用于高压高频脉冲电路中
4.2、 损耗小，内部温升小
4.3、 优异的阻燃性
4.4、高稳定性和可靠性

1、Type name:SCA,Code:SA
2、Construction:Wound capacitor with internal series connection
2.1、Dielectric:Polypropylene film
2.2、Capacitor electrode :Double side metallized plastic film
2.3、Strap terminals: Cu lug terminals or Cu wire
2.4、Encapsulatin :UL510 Polyester Tape Wrap and flame-retardent epoxy resion seal,UL94V-0
3、Main application :IGBT snubbering
4、Special features
4.1、widely used in high voltage , high frequency pulse circuit
4.2、low less and small inherent temperature rise
4.3、Excellent active and passive flame retardent
4.4、High stability and reliability .

5. Electrical specifications- 电气特性

Item	Specification						
Referance standard 引用标准	IEC61071,GBT17702.1:2013						
climatic category 气候类别	40/105/21						
Operating Temperature 工作温度	-40°C~+105°C (+85°C~+105°C:derating factor2.5% per°C for Un(DC)and AC current Irms, 85～105°C时Dc电压和AC电流Irms衰减系数 2.5%/度)						
Rated Voltage Undc 额定电压(VDC at 85°C)	600	850	1000	1200	1600	2000	3000
Urms AC Voltage Vac AC电压有效值(at f<1Khz)	275	450	500	550	600	650	700
Capacitance Range 容量范围 （μF)	0.1~4.7	0.15~2.5	0.15~2.0	0.1~1.5	0.1~1.5	0.022~1.0	0.01~0.15
Capacitance Tolerance 容量偏差	±5%(J), ±10%(K)						
Dissipation Factor 散逸因素	≤0.002（1Khz,25°C) ;						
Insulation Resistance 绝缘电阻	IR ≧30,000s, C>0.33μF IR ≧100,000 MΩ, C≤0.33μF (100VDC charged 1min , 60s, 20°C)						
Withstand Voltage between T/T 端子间耐电压	1.5*Undc , 10s						
Withstand Voltage between T/C 端子对外壳耐电压	3000Vac / 50HZ, 60S						

IGBT Snubber capacitor - SCA

U_R VDC	Vrms VAC	容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	dΦ&t	dV/dT (V/μs)	Ipeak (A)	Irms70°C 100khz (A)	ESR mΩ	ESL nH
600	275	0.10	34	11.9	5.7	0.8	196	20	2.8	28	17
		0.15	34	13.0	6.8	0.8	196	29	4.4	13	18
		0.22	34	14.3	8.1	0.8	196	43	4.9	12	19
		0.33	34	16.1	9.8	0.8	196	65	6.1	9	19
		0.47	34	18.0	11.7	0.8	196	92	7.6	7	20
		0.68	34	20.4	14.2	1.0	196	133	8.9	6	21
		1.0	34	23.5	17.3	1.0	196	196	9.9	6	23
		1.5	34	27.5	21.3	1.2	196	294	12.1	5	24
		2.0	46	27.6	18.2	1.2	128	256	13.1	5	28
		3.3	54	31.8	22.5	1.2	105	347	17.3	4	34
		4.7	54	33.3	28.6	1.2	105	494	18.7	4	36
850	450	0.15	34	15.9	9.6	0.8	713	107	6.4	8	19
		0.22	34	17.9	11.6	0.8	713	157	7.0	8	20
		0.33	34	20.6	14.3	1.0	713	235	8.3	7	21
		0.47	34	23.4	17.1	1.0	713	335	10.8	5	22
		0.68	34	27.0	20.7	1.2	713	485	13.3	4	24
		1.0	46	26.7	17.2	1.2	400	400	12.7	5	28
		1.5	46	30.9	21.5	1.2	400	600	15.8	4	30
		2.0	46	34.6	25.1	1.2	400	800	19.8	3	31
		2.2	46	35.9	26.5	1.2	400	880	20.4	3	32
		2.5	46	37.8	28.4	1.2	400	1000	21.2	3	33
1000	500	0.15	34	17.5	11.2	0.8	856	128	7.4	7	20
		0.22	34	19.9	13.6	1.0	856	188	8.1	7	21
		0.33	34	23.0	16.7	1.0	856	282	9.7	6	22
		0.47	34	26.3	20.1	1.2	856	402	11.7	5	24
		0.68	34	30.5	24.2	1.2	856	582	13.0	5	26
		1.0	46	29.8	20.4	1.2	480	480	13.8	5	24
		1.5	46	34.8	25.4	1.2	480	720	17.3	4	31
		2.0	46	39.1	29.7	1.2	480	960	21.7	3	33

IGBT Snubber capacitor - SCA

U_R VDC	Vrms VAC	容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	dΦ&t	dV/dT (V/μs)	Ipeak (A)	Irms70°C 100khz (A)	ESR mΩ	ESL nH
1200	550	0.10	34	18.0	11.7	0.8	1142	114	6.7	9	20
		0.15	34	20.7	14.4	1.0	1142	171	8.6	7	21
		0.22	34	23.8	17.5	1.0	1142	251	9.2	7	23
		0.33	46	24.0	14.6	1.0	640	211	10.0	7	21
		0.47	46	27.1	17.7	1.2	640	301	10.9	7	28
		0.68	46	31.1	21.7	1.2	640	435	13.0	6	30
		1.0	46	36.1	26.7	1.2	640	640	15.9	5	32
		1.5	54	40.2	27.6	1.2	502	753	19.7	4	36
1600	550	0.10	34	20.6	14.3	1.0	1427	143	8.3	7	21
		0.15	34	23.9	17.7	1.0	1427	214	10.3	5	23
		0.22	34	27.8	21.5	1.2	1427	314	11.0	5	24
		0.33	34	27.6	18.2	1.2	800	264	11.0	7	23
		0.47	34	31.4	22.0	1.2	800	376	13.1	6	30
		0.68	46	36.3	26.9	1.2	800	544	14.5	6	32
		1.0	46	42.5	33.1	1.2	800	800	17.9	5	35
		1.5	54	47.0	34.5	1.2	628	942	22.2	4	39
2000	650	0.022	34	14.2	7.9	0.8	1712	38	2.8	35	18
		0.033	34	16.0	9.7	0.8	1712	56	4.1	20	19
		0.047	34	17.8	11.6	0.8	1712	80	5.7	12	20
		0.068	34	20.2	14.0	1.0	1712	116	7.7	8	21
		0.10	34	23.3	17.0	1.0	1712	171	9.1	7	22
		0.15	46	2.3.6	14.1	1.0	960	144	9.8	7	21
		0.22	46	26.8	17.4	1.0	960	211	10.1	8	28
		0.33	46	31.2	21.7	1.2	960	317	11.3	8	30
		0.47	46	35.8	26.3	1.2	960	451	14.4	6	32
		0.56	54	36.5	23.9	1.2	754	422	13.9	7	31
		0.68	54	39.2	26.7	1.2	754	513	15.8	6	35
		1.0	54	45.6	33.1	1.2	754	754	19.4	5	38

IGBT Snubber capacitor - SCA

U_R VDC	Vrms VAC	容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	dΦ&t	dV/dT (V/μs)	Ipeak (A)	Irms70°C 100khz (A)	ESR mΩ	ESL nH
3000	700	0.010	34	14.1	7.8	0.8	2568	26	2.2	60	18
		0.015	34	15.8	9.5	0.8	2568	39	2.9	40	19
		0.022	34	17.8	11.5	0.8	2568	56	4.0	25	20
		0.033	34	20.4	14.2	1.0	2568	85	5.8	14	21
		0.047	46	20.7	11.3	1.0	1440	68	6.3	14	20
		0.068	46	23.3	13.8	1.0	1440	98	7.4	12	26
		0.10	46	26.5	17.1	1.2	1440	144	9.0	10	28
		0.15	46	30.7	21.3	1.2	1440	216	11.2	8	30

双面金属化聚丙烯膜IGBT吸收电容器 - SCD -LT

特点

- 适用于高频10K~200KHZ,高压3000VDC以下电路中
- 损耗小，温升低，环温 85°C温升≤8°C
  环温105°C温升≤6°C
- 高可靠性：Undc,85°C,1000H,△C≤±5%
  105°C,1000H,△C≤±10%
- 低ESL,ESR;高dv/dt

结构

- 内部串联卷绕结构
- 介质 : 聚丙烯膜
- 电极 :双面金属化膜.
- 引出端 : 铜片端
- 封装 ：UL94V-0阻燃性壳体和环氧树脂封装

主要用途

- IGBT吸收电容器

Double-side Metallized Polypropylene Film snubber Capacitor for IGBT application - SCD -LT

Features

- It can use in high frequency of 10K~200KHZ,and high voltage which is below 3000VDC on the circuit
- Small loss and low temperature
  Circumstance temperature 85°C temperature rising≤8°C
  Circumstance temperature 105°C temperature rising≤6°C
- High reliability：Undc,85°C,1000H,△C≤±5%
  105°C,1000H,△C≤±10%
- Low ESL,ESR;High dv/dt.

Construction

- Wound capacitor with internal series connection
- Dielectric： Polypropylene film
- Capacitor electrode ：Double side metallized PP film
- Strap terminals ：Cu lug terminals (LT)
- Encapsulatin ：flame-retardent plastic case with epoxy resin seal,UL94V-0

Main applications

- IGBT snubbering

5. Electrical specifications- 电气特性

Item	Specification					
Referance standard 引用标准	IEC61071,GBT17702.1:2013					
climatic category 气候类别	40/105/21					
Operating Temperature 工作温度	-40°C~+105°C (+85°C~+105°C:derating factor2.5% perºC for Un(DC)and AC current Irms, 85～105°C时Dc电压和AC电流Irms衰减系数 2.5%/度)					
Rated Voltage Undc 额定电压(VDC at 85°C)	850	1000	1200	1600	2000	3000
Urms AC Voltage Vac AC电压有效值(at f<1Khz)	450	500	550	600	650	700
Capacitance Range 容量范围（μF）	1.2~6.5	0.56~4.7	0.15~2.7	0.15~1.8	0.1~1.4	0.068~0.65
Capacitance Tolerance 容量偏差	±5%(J), ±10%(K)					
Dissipation Factor 散逸因素	≤0.002（1Khz,25°C) ;					
Insulation Resistance 绝缘电阻	IR ≧30,000s, C>0.33μF IR ≧100,000 MΩ, C≤0.33μF (100VDC charged 1min , 60s, 20°C)					
Withstand Voltage between T/T 端子间耐电压	1.5*Undc , 10s					
Withstand Voltage between T/C 端子对外壳耐电压	3000Vac / 50HZ, 60S					

IGBT Snubber capacitor - SCD-LT

U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (±1mm)	高度 H (±1mm)	厚度 T (±1mm)	P	Pin type	dΦ/LT	dV/dT (V/μs)	Irms 100khz (A)	ESR 100kHz mΩ	C.C
850	450	1.2	47.5	31	20	LT	L or N	0.8	400	12	6.5	TP4B
		1.5	47.5	37	24	LT	L or N	0.8	400	13	6	TP4E
		1.8	47.5	40	28	LT	L or N	0.8	400	14	5.5	TP4M
		2	47.5	40	28	LT	L or N	0.8	400	15	5	TP4M
		2.2	47.5	45	30	LT	L or N	0.8	400	16	5	P470
		2.5	47.5	45	30	LT	L or N	0.8	400	18	4.5	P470
		3	47.5	48	33	LT	L or N	0.8	400	20	4	P471
		3.3	47.5	48	33	LT	L or N	0.8	400	21	3.8	P471
		3.5	47.5	49.5	40	LT	L or N	0.8	400	23	3.5	TP4X
		4	47.5	49.5	40	LT	L or N	0.8	400	23	3.3	TP4X
		1.5	57.5	38	23	LT	L or N	0.8	275	12	7	TP57
		2	57.5	38	23	LT	L or N	0.8	275	14	6	TP57
		3	57.5	40	30	LT	L or N	0.8	275	19	5	TP59
		3.3	57.5	40	30	LT	L or N	0.8	275	19	5	TP59
		4	57.5	50	35	LT	L or N	0.8	275	21	3.5	TP5E
		4.7	57.5	50	35	LT	L or N	0.8	275	23	3.5	TP5E
		5	57.5	50	35	LT	L or N	0.8	275	23	3.5	TP5E
		5.6	57.5	57.5	38	LT	L or N	0.8	275	27	3	P571
		6	57.5	57.5	38	LT	L or N	0.8	275	27.5	2.8	P571
		6.5	57.5	57.5	38	LT	L or N	0.8	275	29	2.5	P571
1000	500	0.56	47.5	31	17	LT	L or N	0.8	450	10	10	TP4A
		0.68	47.5	31	20	LT	L or N	0.8	450	11	9	TP4B
		0.82	47.5	33	20	LT	L or N	0.8	450	11.5	7	TP4C
		1	47.5	35	23	LT	L or N	0.8	450	13	6	TP4D
		1.5	47.5	40	28	LT	L or N	0.8	450	16.5	5	TP4M
		1.8	47.5	45	30	LT	L or N	0.8	450	17	4	P470
		2.2	47.5	48	33	LT	L or N	0.8	450	19	4	P470
		2.7	47.5	49.5	40	LT	L or N	0.8	450	22	3.3	TP4X
		3	47.5	49.5	40	LT	L or N	0.8	450	9	7.8	TP4X
		1.5	57.5	38	23	LT	L or N	0.8	300	13.5	6.5	TP57
		2.2	57.5	40	30	LT	L or N	0.8	300	17	5	TP59
		2.2	57.5	45	25	LT	L or N	0.8	300	17	5	TP56
		2.7	57.5	43	32	LT	L or N	0.8	300	20	4.5	TP5A
		3.3	57.5	50	35	LT	L or N	0.8	300	22	4	TP5E
		4	57.5	57	38	LT	L or N	0.8	300	24	3.5	TP5E
		4.7	57.5	57	38	LT	L or N	0.8	300	24	3.5	TP5E

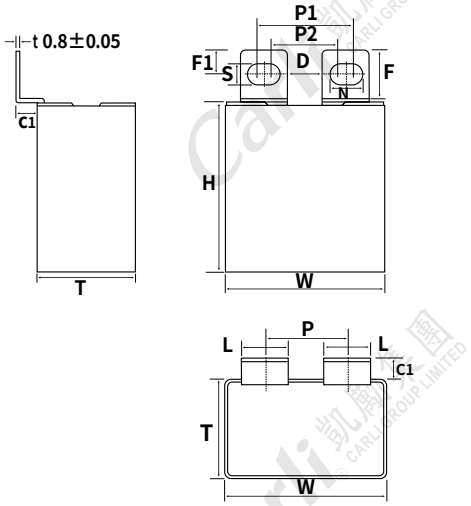
IGBT Snubber capacitor - SCD-LT

U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (mm)	高度 H (mm)	厚度 T mm)	P	Pin type	dΦ/LT	dV/dT (V/μs)	Irms 100khz (A)	ESR 100kHz mΩ	C.C
1200	550	0.15	47.5	31	17	LT	L or N	0.8	500	5.5	13	TP4A
		0.22	47.5	31	17	LT	L or N	0.8	500	6	12	TP4B
		0.33	47.5	31	17	LT	L or N	0.8	500	6.5	11	TP4B
		0.39	47.5	31	20	LT	L or N	0.8	500	8.5	9.5	TP4B
		0.47	47.5	33	20	LT	L or N	0.8	500	9	8.5	TP4C
		0.68	47.5	37	24	LT	L or N	0.8	500	13	6	TP4E
		0.82	47.5	40	28	LT	L or N	0.8	500	14	5.5	TP4M
		1	47.5	45	30	LT	L or N	0.8	500	15	5	P470
		1.2	47.5	45	30	LT	L or N	0.8	500	16.5	4.5	P470
		1.5	47.5	48	33	LT	L or N	0.8	500	18	4.5	P471
		1.8	47.5	49.5	40	LT	L or N	0.8	500	20	4	TP4X
		2	47.5	49.5	40	LT	L or N	0.8	500	20	4	TP4X
		0.82	57.5	38	23	LT	L or N	0.8	350	11.5	7.5	TP57
		1	57.5	38	23	LT	L or N	0.8	350	12.5	7	TP57
		1.5	57.5	45	30	LT	L or N	0.8	350	15	6.5	P570
		2.2	57.5	50	35	LT	L or N	0.8	350	19	4.7	TP5E
		2.7	57.5	57.5	38	LT	L or N	0.8	350	22	4	P571
1600	600	0.15	47.5	31	17	LT	L or N	0.8	600	6.5	13	TP4A
		0.22	47.5	31	17	LT	L or N	0.8	600	8	11	TP4A
		0.27	47.5	31	20	LT	L or N	0.8	600	9	9	TP4B
		0.33	47.5	33	20	LT	L or N	0.8	600	11	8	TP4C
		0.47	47.5	37	24	LT	L or N	0.8	600	13	7	TP4E
		0.68	47.5	45	30	LT	L or N	0.8	600	14.5	6	P470
		0.82	47.5	45	30	LT	L or N	0.8	600	15	5	P470
		1	47.5	48	33	LT	L or N	0.8	600	16	4.5	P471
		1.2	47.5	49.5	40	LT	L or N	0.8	600	18	4	TP4X
		0.68	57.5	38	26	LT	L or N	0.8	400	14.5	7.5	TP58
		0.82	57.5	45	25	LT	L or N	0.8	400	15.5	7	TP56
		1	57.5	45	30	LT	L or N	0.8	400	16.5	6.7	P570
		1.2	57.5	50	35	LT	L or N	0.8	400	18.5	6.2	TP5E
		1.5	57.5	50	35	LT	L or N	0.8	400	20	5.5	TP5E
		1.8	57.5	57.5	38	LT	L or N	0.8	400	11.5	5	P571

IGBT Snubber capacitor - SCD-LT

U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (mm)	高度 H (mm)	厚度 T mm)	P	Pin type	dΦ/LT	dV/dT (V/μs)	Irms 100khz (A)	ESR 100kHz mΩ	C.C
2000	650	0.1	47.5	31	17	LT	L or N	0.8	700	6	15	TP4A
		0.15	47.5	31	17	LT	L or N	0.8	700	8	13	TP4A
		0.18	47.5	31	17	LT	L or N	0.8	700	9	11	TP4A
		0.22	47.5	33	20	LT	L or N	0.8	700	9.5	9	TP4C
		0.27	47.5	35	23	LT	L or N	0.8	700	11	8	TP4D
		0.33	47.5	37	24	LT	L or N	0.8	700	11.5	6.5	TP4E
		0.47	47.5	45	30	LT	L or N	0.8	700	14	5.5	P470
		0.68	47.5	48	33	LT	L or N	0.8	700	14.5	13	P471
		0.82	47.5	49.5	40	LT	L or N	0.8	700	15	13	TP4X
		0.47	57.5	38	23	LT	L or N	0.8	500	11	7	TP57
		0.68	57.5	40	30	LT	L or N	0.8	500	13	7	TP59
		0.82	57.5	43	32	LT	L or N	0.8	500	14	6.5	TP5A
		1	57.5	50	35	LT	L or N	0.8	500	16	6	TP5E
		1.2	57.5	57.5	38	LT	L or N	0.8	500	17.5	6	P571
		1.4	57.5	57.5	38	LT	L or N	0.8	500	18	5.5	P571
3000	700	0.068	47.5	31	17	LT	L or N	0.8	1200	5.5	15	TP4A
		0.082	47.5	31	17	LT	L or N	0.8	1200	6.4	14	TP4A
		0.1	47.5	31	20	LT	L or N	0.8	1200	7	13	TP4B
		0.15	47.5	37	24	LT	L or N	0.8	1200	8.5	11	TP4E
		0.18	47.5	45	30	LT	L or N	0.8	1200	10	10	P470
		0.22	47.5	45	30	LT	L or N	0.8	1200	12	9	P470
		0.33	47.5	48	33	LT	L or N	0.8	1200	14	8.5	P471
		0.39	47.5	49.5	40	LT	L or N	0.8	1200	15	8	TP4X
		0.22	57.5	38	26	LT	L or N	0.8	800	10	10	TP58
		0.33	57.5	45	30	LT	L or N	0.8	800	12.5	9	P570
		0.39	57.5	45	30	LT	L or N	0.8	800	14	8	P570
		0.47	57.5	50	35	LT	L or N	0.8	800	15	7	TP5E
		0.56	57.5	57.5	38	LT	L or N	0.8	800	17	6	P571
		0.65	57.5	57.5	38	LT	L or N	0.8	800	18	5	P571

Outline drawings 尺寸图



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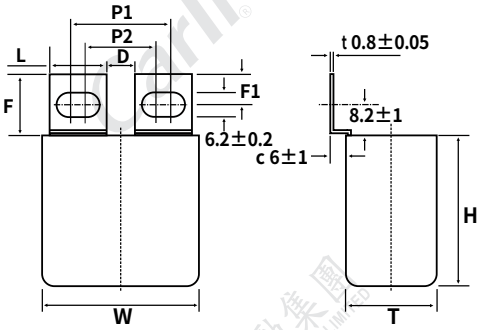
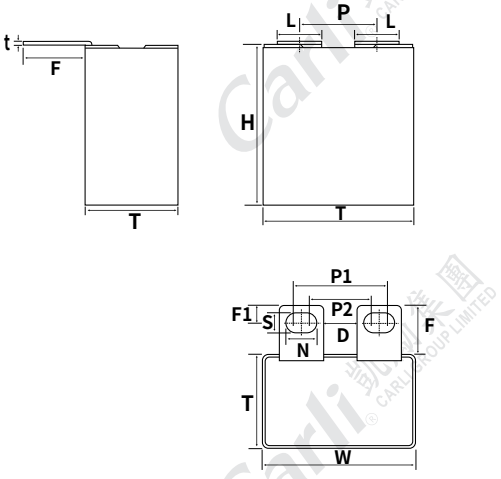


type N2

W	P1 ±0.5	P2 ±0.5	D min	F ±1	F1 ±1	S ±0.2	L ±1	C1 ±1
47.5	28	23	10.2	15	6.8	6.2	14.0	6
57.5	43	38	25.2	15	6.8	6.2	14.0	6

W	P1 ±0.5	P2 ±0.5	D min	F ±1	F1 ±1	S ±0.2	L ±1	C ±1
47.5	32.3	22.7	11	15	6.8	6.2	16	6
57.5	47.3	37.7	26	15	6.8	6.2	16	6



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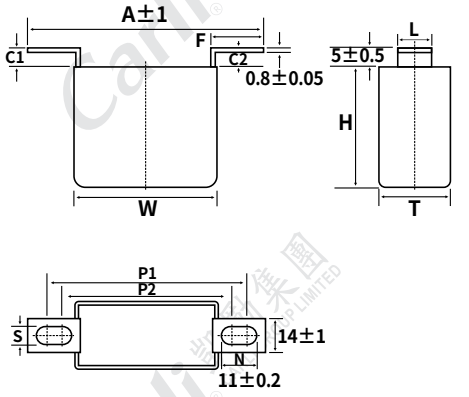
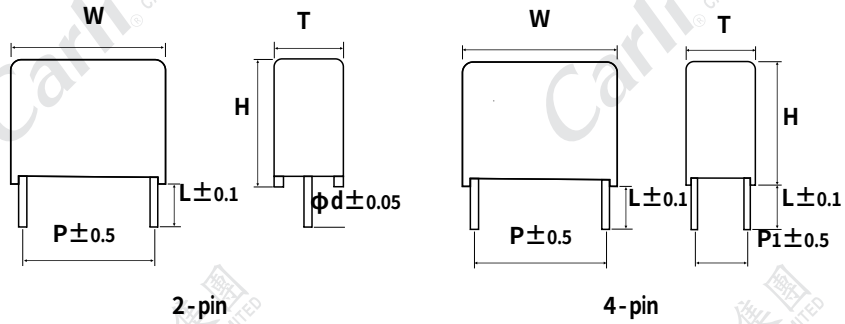


type L2

W	P1 ±0.5	P2 ±0.5	D min	L ±1	F ±1	S ±0.2	C1 ±1	t ±0.05
47.5	32.3	22.7	11	16	16	6.2	0~3.5	0.8
57.5	47.3	37.7	20	16	16	6.2	0~3.5	0.8

W	P1 ±0.5	P2 ±0.5	N ±0.2	L ±0.3	F ±1	S ±0.2	C1 ±0.5	C2 ±0.5
47.5	72.5	62.5	11	14	22	6.2	5	5
57.5	82.5	72.5	11	14	22	6.2	5	5

双面金属化聚丙烯膜IGBT吸收电容器-SCH
Double-side Metallized Polypropylene Film snubber Capacitor for IGBT applicatio SCH



2-pin　　4-pin

双面金属化聚丙烯膜IGBT吸收电容器 - SCH -Cu(PCB)

1、名称：型号SCH ,代号SH
2、 结构： 内部串联卷绕结构
　2.1 、介质 : 聚丙烯膜
　2.2 、电极 :双面金属化膜
　2.3 、引出端 : 铜线
　2.4 、封装 ：UL94V-0阻燃性壳体和环氧树脂封装
3、主要用途：IGBT吸收电容器
4、主要特性：
　4.1 、广泛用于高压高频脉冲电路中
　4.2 、损耗小，内部温升小
　4.3 、优异的阻燃性
　4.4 、高稳定性和可靠性

Double-side Metallized Polypropylene Film snubber Capacitor for IGBT applicatio SCH-Cu for PCB

1、Type name ：SCH ,SH
2、Construction ：Wound capacitor with internal series connection
　2.1 、Dielectric： film
　2.2 、Capacitor electrode ：Double side metallized plastic film
　2.3 、Strap terminals ：Cu wire
　2.4 、Encapsulatin ：flame-retardent plastic case with epoxy resion seal,UL94V-0
3、Main applications: IGBT snubbering
4、Main features ：
　4.1 、widely used in high voltage , high frequency pulse circuit.
　4.2、 low less and small inherent temperature rise
　4.3、 Excellent active and passive flame retardent
　4.4、 High stability and reliability

5. Electrical specifications- 电气特性

Item	Specification				
Referance standard 引用标准	IEC61071,GBT17702.1:2013				
climatic category 气候类别	40/105/21				
Operating Temperature 工作温度	-40°C~+105°C (+85°C~+105°C:derating factor2.5% per°C for Un(DC)and AC current Irms, 85～105°C时Dc电压和AC电流Irms衰减系数 2.5%/度)				
Rated Voltage Undc 额定电压(VDC at 85°C)	850	1000	1200	1600	2000
Urms AC Voltage Vac AC电压有效值(at f<1Khz)	450	500	550	600	650
Capacitance Range 容量范围（μF）	0.1~7	0.1~5	0.15~3	0.047~2	0.033~1.5
Capacitance Tolerance 容量偏差	±5%(J), ±10%(K)				
Dissipation Factor 散逸因素	≤0.002（1Khz,25°C）;				
Insulation Resistance 绝缘电阻	IR ≧30,000s, C>0.33μF IR ≧100,000 MΩ, C≤0.33μF(100VDC charged 1min , 60s, 20°C)				
Withstand Voltage between T/T端子间耐电压	1.5*Undc , 10s				
Withstand Voltage between T/C端子对外壳耐电压	3000Vac / 50HZ, 60S				

IGBT Snubber capacitor - SCH-Cu

U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (mm)	高度 H (mm)	厚度 T (mm)	P	Pitch1	dΦ/LT	dV/dT (V/μs)	Irms 100 khz(A)	ESR 100kHz mΩ	C.C
850	450	0.1	26	20	11	22.5	-	0.8	900	4	13	P260
		0.15	26	20	11	22.5	-	1	900	4.5	12	P260
		0.22	26	23	13	22.5	-	1	900	5	11	P262
		0.33	26	27	16	22.5	-	1	900	6	11	P264
		0.47	26	30	20	22.5	-	1	900	7	11	P265
		0.68	26	34	24	22.5	-	1	900	8.5	11	P266
		0.22	32	22	13	27.5	-	1	700	4.5	10	TP34
		0.33	32	25	15	27.5	-	1	700	5.5	8	TP36
		0.47	32	28	17	27.5	-	1	700	6.5	6	TP37
		0.68	32	35	20	27.5	-	1	700	8	6	TP3c
		0.82	32	35	20	27.5	-	1	700	9	6	TP3c
		0.91	32	37	22	27.5	-	1	700	9.5	5.5	TP3C
		1	32	37	22	27.5	-	1	700	10	5.5	TP3C
		1	47.5	31	17	42.5	5.1	1	400	10	5.5	TP4A
		1.2	47.5	31	20	42.5	10.2	1	400	10.5	5	TP4B
		1.5	47.5	35	23	42.5	10.2	1	400	12	5	TP4D
		1.8	47.5	37	24	42.5	10.2	1.2	400	13	5.5	TP4E
		2	47.5	37	24	42.5	10.2	1.2	400	13.5	5.5	TP4E
		2.2	47.5	40	28	42.5	10.2	1.2	400	14	5	TP4M
		2.5	47.5	40	28	42.5	10.2	1.2	400	14.5	4.5	TP4M
		3	47.5	45	30	42.5	20.3	1.2	400	16	4.5	P470
		3.5	47.5	48	33	42.5	20.3	1.2	400	16.5	3.5	P471
		4.7	47.5	49.5	40	42.5	20.3	1.2	400	18	3.3	TP4X
		2.2	57.5	38	23	52.5	10.2	1.2	275	13.5	5	TP57
		3	57.5	38	26	52.5	10.2	1.2	275	15	5	TP58
		3.5	57.5	40	30	52.5	10.2	1.2	275	16	5	TP59
		4	57.5	45	30	52.5	20.3	1.2	275	16.5	4	TP5A
		4.3	57.5	45	30	52.5	20.3	1.2	275	17	4	P570
		4.7	57.5	50	35	52.5	20.3	1.2	275	17.5	3.5	TP5E
		5	57.5	50	35	52.5	20.3	1.2	275	18	3.5	TP5E
		5.6	57.5	50	35	52.5	20.3	1.2	275	19	3.5	TP5E
		6.8	57.5	57.5	38	52.5	20.3	1.2	275	20	2.8	P571
		7	57.5	57.5	38	52.5	20.3	1.2	275	22	2.5	P571

IGBT Snubber capacitor - SCH-Cu

U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (mm)	高度 H (mm)	厚度 T (mm)	P	Pitch1	dΦ/LT	dV/dT (V/μs)	Irms 100 khz(A)	ESR 100kHz mΩ	C.C
1000	500	0.1	26	20	11	22.5	-	1	1200	4.5	13	P260
		0.15	26	23	13	22.5	-	1	1200	5	12	P262
		0.22	26	25	16.5	22.5	-	1	1200	5.5	12	P263
		0.33	26	30	20	22.5	-	1	1200	6	11	P265
		0.1	32	20	11	27.5	-	1	750	4	10	TP32
		0.15	32	22	13	27.5	-	1	750	4.5	9	TP34
		0.22	32	25	15	27.5	-	1	750	5.5	9	TP36
		0.33	32	28	17	27.5	-	1	750	6.5	8	TP37
		0.47	32	33	18	27.5	-	1	750	7.5	7	TP3A
		0.56	32	35	20	27.5	-	1	750	8	6	TP3c
		0.68	32	37	22	27.5	-	1.2	750	9.5	6	TP3C
		0.68	47.5	31	17	42.5	-	1.2	450	9	6	TP4A
		0.82	47.5	31	17	42.5	-	1.2	450	10	5.5	TP4A
		1	47.5	31	20	42.5	-	1.2	450	11	5.5	TP4B
		1.5	47.5	37	24	42.5	10.2	1.2	450	13	5	TP4M
		1.8	47.5	40	28	42.5	10.2	1.2	450	15	5	TP4E
		2.2	47.5	45	30	42.5	20.3	1.2	450	17	4.5	P470
		2.7	47.5	48	33	42.5	20.3	1.2	450	18	4	P471
		3.3	47.5	49.5	40	42.5	20.3	1.2	450	20	4	TP4X
		1.8	57.5	38	23	52.5	10.2	1.2	300	14.5	4	TP57
		2.2	57.5	38	26	52.5	10.2	1.2	300	15.5	3.5	TP58
		2.7	57.5	40	30	52.5	20.3	1.2	300	16	3.5	TP59
		3	57.5	45	30	52.5	20.3	1.2	300	17	3	P570
		3.3	57.5	45	30	52.5	20.3	1.2	300	18	3	P570
		4	57.5	50	35	52.5	20.3	1.2	300	19	3	TP5E
		4.7	57.5	57.5	38	52.5	20.3	1.2	300	20	3	P571
		5	57.5	57.5	38	52.5	20.3	1.2	300	20	3	P571

IGBT Snubber capacitor - SCH-Cu

U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (mm)	高度 H (mm)	厚度 T (mm)	P	Pitch1	dΦ/LT	dV/dT (V/μs)	Irms100 khz(A)	ESR 100kHz mΩ	C.C
1200	550	0.1	26	20	18	22.5	-	1	1500	5.5	13	P26A
		0.15	26	23	21	22.5	-	1	1500	6	12	P26B
		0.22	26	26	24	22.5	-	1	1500	6.5	11	P26C
		0.33	26	31	29	22.5	-	1	1500	7	10	P26D
		0.1	26	23	13	22.5	-	1	1500	5	13	P262
		0.15	26	27	16	22.5	-	1	1500	5.5	12.5	P264
		0.22	26	30	20	22.5	-	1	1500	6	11.5	P265
		0.33	26	34	24	22.5	-	1	1500	6.5	10.5	P266
		0.1	32	22	13	27.5	-	1	1000	4.5	13	TP34
		0.15	32	25	15	27.5	-	1	1000	5	12	TP36
		0.22	32	28	17	27.5	-	1	1000	6	11.5	TP37
		0.24	32	28	17	27.5	-	1	1000	6	11	TP37
		0.33	32	31	22	27.5	-	1	1000	7	9.5	TP3F
		0.45	32	37	22	27.5	-	1	1000	8	9	TP3C
		0.4	42.5	28	17	37.5	-	1	650	8	10	TP49
		0.56	42.5	30	22	37.5	10.2	1	650	8.5	9.5	TP4R
		0.65	42.5	33.5	22	37.5	10.2	1	650	10	9	TP45
		1	42.5	37	28	37.5	10.2	1.2	650	12	8.5	TP4S
		1.2	42.5	45	30	37.5	20.3	1.2	650	13	8	P422
		0.47	47.5	31	17	42.5	5.1	1	600	8.5	8.5	TP4A
		0.6	47.5	33	20	42.5	10.2	1	600	9.5	6	P470
		0.75	47.5	35	23	42.5	10.2	1.2	600	10	5.5	TP4D
		0.82	47.5	37	24	42.5	10.2	1.2	600	11	5.5	P471
		1	47.5	40	28	42.5	10.2	1.2	600	12	5	TP4M
		1.2	47.5	45	30	42.5	20.3	1.2	600	13	5	P470
		1.5	47.5	48	33	42.5	20.3	1.2	600	15	5	P471
		1.8	47.5	49.5	40	42.5	20.3	1.2	600	17	4.5	TP4X
		2	47.5	49.5	40	42.5	20.3	1.2	600	18	4.5	TP4X
		1.2	57.5	38	23	52.5	10.2	1.2	400	12.5	7.5	TP57
		1.5	57.5	45	30	52.5	20.3	1.2	400	14	7	P570
		1.8	57.5	45	30	52.5	20.3	1.2	400	16	6.5	P570
		2.2	57.5	50	35	52.5	20.3	1.2	400	18	5	TP5E
		2.5	57.5	50	35	52.5	20.3	1.2	400	19	4	TP5E
		3	57.5	57.5	38	52.5	20.3	1.2	400	20	4	P571

IGBT Snubber capacitor - SCH-Cu

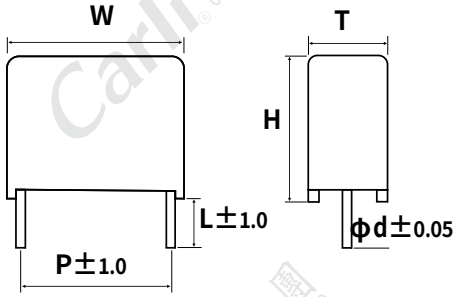
U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (mm)	高度 H (mm)	厚度 T (mm)	P	Pitch1	dΦ/LT	dV/dT (V/μs)	Irms100 khz(A)	ESR 100kHz mΩ	C.C
1600	600	0.047	26	20	11	27.5	-	1	1900	4	13	P260
		0.068	26	23	13	27.5	-	1	1900	5	12.5	P262
		0.1	26	27	16	27.5	-	1	1900	6	12.5	P264
		0.15	26	30	20	27.5	-	1	1900	6.5	12	P265
		0.22	26	34	24	27.5	-	1	1900	7	11	P266
		0.068	32	20	11	27.5	-	1	1300	4.5	13	TP32
		0.082	32	22	13	27.5	-	1	1300	5	12	TP34
		0.1	32	25	15	27.5	-	1	1300	5.5	11	TP36
		0.15	32	28	17	27.5	-	1	1300	6	11	TP37
		0.18	32	30	18	27.5	-	1	1300	6.5	11	TP39
		0.22	32	31	22	27.5	-	1	1300	7.5	10	TP3F
		0.24	32	35	20	27.5	-	1	1300	7.5	9	TP3c
		0.27	32	37	22	27.5	-	1	1300	8	8	TP3C
		0.27	42.5	28	17	37.5	-	1	800	7.5	9	TP49
		0.33	42.5	30	22	37.5	-	1	800	8.5	8	TP4R
		0.39	42.5	33.5	22	37.5	10.2	1	800	9	7	TP45
		0.47	42.5	40	20	37.5	10.2	1	800	10	7.5	P421
		0.68	42.5	44	24	37.5	10.2	1.2	800	12	7.5	TP4W
		0.82	42.5	45	30	37.5	20.3	1.2	800	13	7	P422
		0.33	47.5	31	17	42.5	5.1	1	600	8.5	9	TP4A
		0.47	47.5	35	23	42.5	10.2	1	600	10.5	8	TP4D
		0.68	47.5	40	28	42.5	10.2	1.2	600	12.5	7	TP4M
		0.82	47.5	45	30	42.5	20.3	1.2	600	13.5	7	P470
		1	47.5	48	33	42.5	20.3	1.2	600	14.5	6	P471
		1.2	47.5	49.5	40	42.5	20.3	1.2	600	15	5	TP4X
		1.4	47.5	49.5	40	42.5	20.3	1.2	600	16	4.5	TP4X
		0.68	57.5	38	23	52.5	10.2	1.2	400	12.5	7.5	TP57
		0.82	57.5	38	26	52.5	10.2	1.2	400	13	7	TP58
		1	57.5	45	25	52.5	10.2	1.2	400	14	6.7	TP56
		1.2	57.5	45	30	52.5	20.3	1.2	400	15	6.2	P570
		1.5	57.5	50	35	52.5	20.3	1.2	400	16	5.5	TP5E
		1.8	57.5	57.5	38	52.5	20.3	1.2	400	18	5	P571
		2	57.5	57.5	38	52.5	20.3	1.2	400	20	5	P571

IGBT Snubber capacitor - SCH-Cu

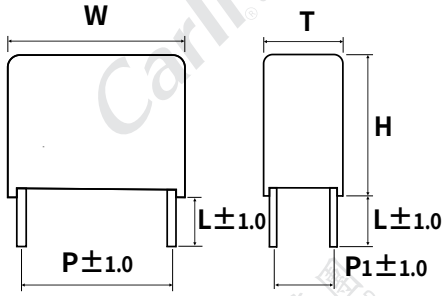
U_R VDC	Vrms for f<1khz VAC	容量 (uF)	宽度 W (mm)	高度 H (mm)	厚度 T (mm)	P	Pitch1	dΦ/LT	dV/dT (V/μs)	Irms100 khz(A)	ESR 100kHz mΩ	C.C
2000	700	0.033	26	20	11	22.5	-	1	2400	4	13	P260
		0.047	26	23	13	22.5	-	1	2400	4.5	12.5	P262
		0.068	26	27	16	22.5	-	1	2400	5.5	12	P264
		0.1	26	30	20	22.5	-	1	2400	6.5	11	P265
		0.15	26	34	24	22.5	-	1	2400	7	10	P265
		0.033	32	20	11	27.5	-	1	1500	3.5	14	TP32
		0.047	32	22	13	27.5	-	1	1500	4	13	TP34
		0.068	32	25	15	27.5	-	1	1500	5	12	TP36
		0.082	32	25	15	27.5	-	1	1500	5.5	11	TP36
		0.1	32	28	17	27.5	-	1	1500	6	11	TP37
		0.15	32	33	18	27.5	-	1	1500	7	10	TP3A
		0.18	32	35	20	27.5	-	1	1500	8	9	TP3c
		0.2	32	37	22	27.5	-	1	1500	8	8	TP3C
		0.22	47.5	31	17	42.5	-	1	700	8.5	7	TP4A
		0.27	47.5	31	20	42.5	10.2	1	700	9	6	TP4B
		0.33	47.5	35	23	42.5	10.2	1	700	10.5	5	TP4D
		0.47	47.5	40	28	42.5	10.2	1.2	700	12	5	TP4M
		0.68	47.5	45	30	42.5	20.3	1.2	700	13	5	P470
		0.82	47.5	48	33	42.5	20.3	1.2	700	14	5	P471
		0.56	57.5	38	23	52.5	10.2	1.2	500	12	5	TP57
		0.68	57.5	38	26	52.5	10.2	1.2	500	13	5	TP58
		0.82	57.5	40	30	52.5	20.3	1.2	500	14	4.5	TP59
		1	57.5	50	35	52.5	20.3	1.2	500	15	4	TP5E
		1.2	57.5	50	35	52.5	20.3	1.2	500	16	4	TP5E
		1.5	57.5	57.5	38	52.5	20.3	1.2	500	17	3	P571

交流输出滤波电容器（PCB）
A.C Output filter capacitors for PCB

外形图 Outline Drawing



2-pin



4-pin

特点
- 采用特殊材料工艺，耐电流增幅10%~20%
- 良好自愈性
- THB测试:Undc 85°C,RH 85%,1000H,△C≤±10%
- 高可靠性：Undc 85°C,1000H,△C≤±5%
  105°C,1000H,△C≤±10%

结构
- 外壳:方型，UL94V-0级工程塑料
- 填充料:UL94V0级环氧树脂
- 引出端：铜导线引出

主要应用
- 太阳能逆变器和UPS电源之交流滤波

Features
- Using special material technologe,the can increase of 10%~20% of withstand voltage
- Self-healing excellent
- THB test:Undc 85°C,RH 85%,1000H,△C≤±10%
- High reliability：Undc 85°C,1000H,△C≤±5%
  105°C,1000H,△C≤±10%

Construction
- Case:rectangular shape,engine plastic UL94V-0
- Fillng material:Eposxy resin UL 94V0 class
- Terminals:Cu lead wire

Applications
- AC filter capacitor for PV inverter or UPS power supply

技术要求 Specifications

引用标准 Reference standard	GB/T 17702.1(IEC 61071)				
气候类别 Climatic Category	40/85/21				
工作温度范围 (热点温度) Operating Temperature Range(θ hs)	40°C~+85°C				
工作温度范围	-40°C~+105°C (+85°C~+105°C:derating factor1.35%)per°C for Un(DC) 85~105°C时Dc电压衰减系数1.5%/度				
额定交流电压(均方根值)/Rated AC Voltage($U_{N(rms)}$)	180Vac	250Vac	300Vac	350Vac	440Vac
峰值交流电压(Up)/ Peak AC Voltage(Up)	250Vac	350Vac	425Vac	500Vac	620Vac
最大连续直流电压/ Maximum continuous DC voltage	300Vdc	475Vdc	560Vdc	650Vdc	800Vdc
容量范围/Capacitance Range (uF)	1.0 uF~100 uF	1.0 uF~65 uF	1.0 uF~45 uF	1.0 uF~33 uF	1.0 uF~20 uF
电容量偏差/Capacitance Tolerance	±5%(J),±10%(K)				
耐压压 Voltage Proof	引线之间 Between Termianls:	1.5 UNAC(10S)			
	极壳之间 Between Termianls To Case:	1000+2UNAC(60S) (2000 Vac min)			
绝缘电阻 Inssulation Resistance	≥3000s (100VDC charged 1min,60s,20°C)				
损耗角正切 Dissipation Factor	≤20X10^{-4}(1KHZ,20°C)(Typical value,15x10^{-4})				
引出线 Leads	Tinned wire(2 or 4 pins)(见顶部图示 See figure on top)				
Life time expectancy	Useful lifetime:>60 000 h at UNAC,70°C[1*] FIT:<10X10^{-9}/h(10 per 10^{9} component hours)at 0.5xUNAC,40°C				
按装位置 Mounting position	电路板安装 For PCB Mounting				

1*Useful lifetime:>60 000 h at UNAC,70°C:Statements about life time are based on calculations which are based on internal tests.They have to be understood exclusively as estimations.Also due to external factors,the life time in the field application may deviate from the calculated life time.

$U_{N(rms)}$=180Vac,U_P=250Vac,U_{NDC}=300Vdc,C=4.0uF~100uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVΦ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
4	32	25	15	27.5	-	1	45	180	6.5	6.7	TB36
5	32	25	15	27.5	-	1	45	225	7	5.5	TB36
6.8	32	30	18	27.5	-	1.2	45	306	8	3.9	TB39
10	32	35	20	27.5		1.2	45	450	9.5	2.7	TB3c
12	32	37	22	27.5	10.2	1.2	45	540	10	2.5	TB3C
15	32	40	28	27.5	10.2	1.2	45	675	11	2.5	B321
20	32	45	30	27.5	20.3	1.2	45	900	13	2.3	B322
10	42.5	32	17	37.5	-	1.2	20	200	9	4.9	B42B
15	42.5	37	22	37.5	-	1.2	20	300	11	3.3	B426
18	42.5	37	22	37.5	-	1.2	20	360	12	2.7	B426
20	42.5	39	24	37.5	10.2	1.2	20	400	13	2.5	B424
22	42.5	41	26	37.5	10.2	1.2	20	440	13.5	2.2	B427
25	42.5	41	26	37.5	10.2	1.2	20	500	14	2	B427
30	42.5	45	30	37.5	20.3	1.2	20	600	15	1.6	B422
35	42.5	50	30	37.5	20.3	1.2	20	700	16	1.5	B425
40	42.5	50	35	37.5	20.3	1.2	20	800	20	1.4	B42F
35	57.5	45	25	52.5	10.2	1.2	10	350	14	3	TB56
40	57.5	45	30	52.5	20.3	1.2	10	400	15	2.6	TB5F
50	57.5	50	30	52.5	20.3	1.2	10	500	16	2.1	TB5G
60	57.5	50	35	52.5	20.3	1.2	10	600	20	2	TB5E
70	57.5	53	38	52.5	20.3	1.2	10	700	25	1.9	B573
85	57.5	55	45	52.5	20.3	1.2	10	850	30	1.6	B575
100	57.5	48	60	52.5	20.3	1.2	10	1000	35	1.5	B577

$U_{N(rms)}$=250Vac,U_P=350Vac,U_{NDC}=475Vdc,C=1.0uF~65uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVΦ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
1	32	20	11	27.5	-	1	50	50	3	19.3	TB32
1.5	32	20	11	27.5	-	1	50	75	4	12.9	TB32
2	32	22	13	27.5	-	1	50	100	5	9.6	TB34
2.2	32	22	13	27.5	-	1	50	110	6	8.8	TB34
2.5	32	25	15	27.5	-	1	50	125	6	7.7	TB36
3	32	25	15	27.5	-	1	50	150	7	6.4	TB36
3.3	32	28	17	27.5	-	1	50	165	8	5.8	TB37
3.5	32	28	17	27.5	-	1	50	175	8	5.5	TB37
4	32	30	18	27.5	-	1.2	50	200	8.5	4.8	TB39
4.5	32	30	18	27.5	-	1.2	50	225	9	4.3	TB39
5	32	33	18	27.5	-	1.2	50	250	9	3.9	TB3A
6.8	32	37	22	27.5	10.2	1.2	50	340	10.5	2.8	TB3C
4.7	42.5	26	15	37.5	-	1.2	25	117.5	7	7.8	B429
5	42.5	28	17	37.5	-	1.2	25	125	8	7.3	TB49

$U_{N(rms)}$=250Vac,U_P=350Vac,U_{NDC}=475Vdc,C=1.0uF~65uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVφ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
6	42.5	28	17	37.5	-	1.2	25	150	9	6.1	TB49
6.5	42.5	32	17	37.5	-	1.2	25	162.5	9.5	5.6	B42B
6.8	42.5	32	17	37.5	-	1.2	25	170	10	5.4	B42B
7.5	42.5	32	17	37.5	-	1.2	25	187.5	10	4.9	B42B
8	42.5	37	22	37.5	10.2	1.2	25	200	10.5	4.6	B426
10	42.5	37	22	37.5	10.2	1.2	25	250	11.5	3.7	B426
12	42.5	39	24	37.5	10.2	1.2	25	300	12.5	3	B424
15	42.5	41	26	37.5	10.2	1.2	25	375	14	2.7	B427
18	42.5	45	30	37.5	20.3	1.2	25	450	15	2.5	B422
20	42.5	45	30	37.5	20.3	1.2	25	500	16	2.4	B422
25	42.5	50	35	37.5	20.3	1.2	25	625	18	2.2	B42F
22	57.5	45	25	52.5	10.2	1.2	12	264	14	4	TB56
25	57.5	45	30	52.5	20.3	1.2	12	300	15	3.5	TB5F
30	57.5	45	30	52.5	20.3	1.2	12	360	16	3.2	TB5F
35	57.5	50	35	52.5	20.3	1.2	12	420	20	3	TB5E
40	57.5	50	35	52.5	20.3	1.2	12	480	24	2.8	TB5E
45	57.5	53	38	52.5	20.3	1.2	12	540	27	2.5	B573
50	57.5	57.5	38	52.5	20.3	1.2	12	600	30	2.3	B571
55	57.5	55	45	52.5	20.3	1.2	12	660	32	2.2	B575
65	57.5	48	60	52.5	20.3	1.2	12	780	35	2	B577

$U_{N(rms)}$=300Vac,U_P=425Vac,U_{NDC}=560Vdc,C=1.0uF~45uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVφ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
1	32	20	11	27.5	-	1	68	68	4	15.9	TB32
1.5	32	22	13	27.5	-	1	68	102	5	10.6	TB34
2	32	25	15	27.5	-	1	68	136	6	8.9	TB36
2.2	32	25	15	27.5	-	1	68	149.6	7	8	TB36
2.5	32	28	17	27.5	-	1	68	170	7.5	7.2	TB37
3	32	30	18	27.5	-	1.2	68	204	8	6.4	TB39
3.3	32	33	18	27.5	-	1.2	68	224.4	8.5	5.3	TB3A
3.5	32	33	18	27.5	-	1.2	68	238	9	4.8	TB3A
4	32	35	20	27.5	-	1.2	68	272	9.5	4.6	TB3c
4.7	32	37	22	27.5	10.2	1.2	68	319.6	10	4	TB3C
5	32	37	22	27.5	10.2	1.2	68	340	10.5	3.4	TB3C
6.8	32	40	28	27.5	10.2	1.2	68	462.4	12	3.2	B321
3	42.5	26	15	37.5	-	1.2	35	105	6	10.1	B429
3.3	42.5	26	15	37.5	-	1.2	35	115.5	7	9.2	B429
3.5	42.5	28	17	37.5	-	1.2	35	122.5	7	8.6	TB49
4	42.5	28	17	37.5	-	1.2	35	140	8	7.6	TB49
4.5	42.5	32	17	37.5	-	1.2	35	157.5	9	6.7	B42B

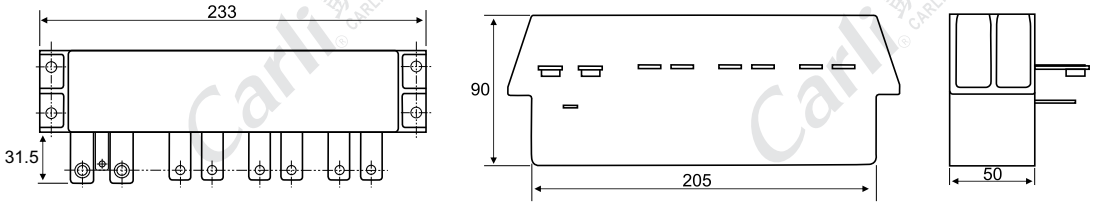
$U_{N(rms)}$=300Vac,U_P=425Vac,U_{NDC}=560Vdc,C=1.0uF~45uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVΦ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
4.7	42.5	32	17	37.5	-	1.2	35	164.5	9	6.4	B42B
5	42.5	30	22	37.5	-	1.2	35	175	10	6	TB4R
6	42.5	30	22	37.5	-	1.2	35	210	10.5	5	TB4R
6.8	42.5	37	22	37.5	10.2	1.2	35	238	11	4.4	B426
8	42.5	37	22	37.5	10.2	1.2	35	280	12	3.8	B426
10	42.5	41	26	37.5	10.2	1.2	35	350	13	3	B427
12	42.5	43	28	37.5	10.2	1.2	35	420	14	2.5	B42A
15	42.5	45	30	37.5	20.3	1.2	35	525	15	2.1	B422
18	42.5	50	35	37.5	20.3	1.2	35	630	18	2	B42F
15	57.5	45	25	52.5	10.3	1.2	15	225	14	4	TB56
18	57.5	45	30	52.5	20.3	1.2	15	270	15	3.8	TB5F
20	57.5	45	30	52.5	20.3	1.2	15	300	16	3.4	TB5F
22	57.5	50	30	52.5	20.3	1.2	15	330	17	3.1	TB5G
25	57.5	50	35	52.5	20.3	1.2	15	375	21	2.7	TB5E
28	57.5	50	35	52.5	20.3	1.2	15	420	23	2.4	TB5E
30	57.5	53	38	52.5	20.3	1.2	15	450	25	2.2	B573
35	57.5	57.5	38	52.5	20.3	1.2	15	525	30	2.1	B571
40	57.5	55	45	52.5	20.3	1.2	15	600	33	2	B575
45	57.5	48	60	52.5	20.3	1.2	15	675	36	2	B577

$U_{N(rms)}$=350Vac,U_P=500Vac,U_{NDC}=650Vdc,C=1.0uF~33uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVΦ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
1	32	22	13	27.5	-	1	100	100	5	14	TB34
1.5	32	25	15	27.5	-	1	100	150	6	12	TB36
2.2	32	28	17	27.5	-	1	100	220	7	11	TB37
2.5	32	33	18	27.5	-	1	100	250	7.5	10	TB3A
3	32	35	20	27.5	-	1.2	100	300	8	8.5	TB3c
3.3	32	37	22	27.5	10.2	1.2	100	330	9	8	TB3C
3.5	32	37	22	27.5	10.2	1.2	100	350	9.5	7.5	TB3C
4	32	40	22	27.5	10.2	1.2	100	400	10	7.1	B323
4.7	32	45	22	27.5	10.2	1.2	100	470	11	6.5	B324
5	32	40	28	27.5	10.2	1.2	100	500	12	6	B321
2.2	42.5	26	15	37.5	-	1.2	50	110	7	9	B429
3.3	42.5	28	17	37.5	-	1.2	50	165	8	8.5	TB49
3.5	42.5	32	17	37.5	-	1.2	50	175	8.5	8.1	B42B
4	42.5	32	17	37.5	-	1.2	50	200	9.5	7.6	B42B
4.5	42.5	33.5	22	37.5	10.2	1.2	50	225	10	6.7	TB45
4.7	42.5	33.5	22	37.5	10.2	1.2	50	235	10.5	6.4	TB45
5	42.5	33.5	22	37.5	10.2	1.2	50	250	11	6	TB45
6	42.5	37	22	37.5	10.2	1.2	50	300	12	5	B426

$U_{N(rms)}$=350Vac,U_P=500Vac,U_{NDC}=650Vdc,C=1.0uF~33uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVΦ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
6.8	42.5	39	24	37.5	10.2	1.2	50	340	13	4.4	B424
8	42.5	41	26	37.5	10.2	1.2	50	400	14	3.8	B427
10	42.5	45	30	37.5	20.3	1.2	50	500	16	3	B422
12	42.5	48	33	37.5	20.3	1.2	50	600	14	2.5	B423
13	42.5	50	35	37.5	20.3	1.2	50	650	15	2.1	B42F
12	57.5	45	25	52.5	10.3	1.2	25	300	14	4	TB56
15	57.5	45	30	52.5	20.3	1.2	25	375	15	3.8	TB5F
18	57.5	50	35	52.5	20.3	1.2	25	450	18	3.4	TB5E
20	57.5	50	35	52.5	20.3	1.2	25	500	20	3.1	TB5E
22	57.5	53	38	52.5	20.3	1.2	25	550	22	2.7	B573
25	57.5	57.5	38	52.5	20.3	1.2	25	625	25	2.4	B571
28	57.5	55	45	52.5	20.3	1.2	25	700	28	2.2	B575
33	57.5	48	60	52.5	20.3	1.2	25	825	35	2.1	B577

$U_{N(rms)}$=440Vac,U_P=620Vac~660Vac,U_{NDC}=800Vdc,C=1.0uF~20uF											
容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	dVΦ&t (±0.05mm)	dV/dT (V/us)	Ipeak (A)	Irms(70°C) (A)	ESR(10KHz) (mΩ)	C.C
1	32	28	17	27.5	-	1.2	110	110	5.5	15	TB37
1.5	32	33	18	27.5	-	1.2	110	165	7	11	TB3A
2.2	32	37	22	27.5	-	1.2	110	242	8.5	9	TB3C
2.2	32	37	22	27.5	10.2	1.2	110	242	9	9	TB3C
2.5	32	40	22	27.5	-	1.2	110	275	9	8	B323
2.5	32	40	22	27.5	10.2	1.2	110	275	9.5	8	B323
3	32	40	28	27.5	20.3	1.2	110	330	9.5	7	B321
3.3	32	40	28	27.5	20.3	1.2	110	363	10	6.5	B321
3.5	32	45	30	27.5	20.3	1.2	110	385	10.5	6	B322
4	32	45	30	27.5	20.3	1.2	110	440	11	5.5	B322
2.2	42.5	30	22	37.5	10.2	1.2	60	132	8	14	TB4R
3.3	42.5	37	22	37.5	10.2	1.2	60	198	9.5	12	B426
3.5	42.5	37	22	37.5	10.2	1.2	60	210	10	11	B426
4	42.5	37	28	37.5	20.3	1.2	60	240	10.5	10	TB4S
4.5	42.5	44	24	37.5	10.2	1.2	60	270	11.5	9.5	TB4W
4.7	42.5	44	24	37.5	10.2	1.2	60	282	12	10	TB4W
5	42.5	43	28	37.5	20.3	1.2	60	300	12	9.5	B42A
5.5	42.5	45	30	37.5	20.3	1.2	60	330	12.5	9	B422
6	42.5	51	30	37.5	20.3	1.2	60	360	13	8.5	B425
6.8	42.5	50	35	37.5	20.3	1.2	60	408	14	7.5	B42F
6.8	57.5	45	25	52.5	10.2	1.2	30	204	11.5	12	TB56
8	57.5	45	30	52.5	20.3	1.2	30	240	12.5	10.5	TB5F
10	57.5	50	35	52.5	20.3	1.2	30	300	16	9	TB5E
12	57.5	57.5	38	52.5	20.3	1.2	30	360	20	8	B571
15	57.5	57.5	38	52.5	20.3	1.2	30	450	25	7	B571
18	57.5	48	60	52.5	20.3	1.2	30	540	30	6	B577
20	57.5	48	60	52.5	20.3	1.2	30	600	32	5	B577

EV&HEV 用 DC-Link 金属化聚丙烯膜电容器
Metallized Polypropylene Film Capacitor for EV&HEV DC-Link Application



特点
- 良好的自愈性
- 高温耐压T/T:1.5*Undc(105℃，60S),产品漏电流≤10mA
- 采用自主研发的分散电流工艺，大幅提高产品承受纹波电流能力
- 高可靠性：Undc,70℃，寿命长达十万小时

结构
- 金属化PP膜无感结构
- 铜端子引出
- 阻燃性塑胶壳，环氧树脂封装
- 干式电容

典型应用
- 广泛应用于汽车混合动力、电动汽车、汽车电驱动系统，燃料电池，DC-Link应用电源模组，储能滤波

Features
- Self-healing is excellent
- High temperature and withstand voltage T/T:1.5*Undc(105℃，60S)，the leakage current of product is ≤10mA
- With the independent research and development of the dispersive current technologe,greatiy improve the product to withstand ripple current capacity
- High reliability:Undc,70℃，the using life is over 100 thousand hours

Construction
- Metallized Polypropylene film Non-inductive consturction
- Cu terminals connected
- Flame retardant plastic case and epoxy resin encapsulated
- Dry type structure

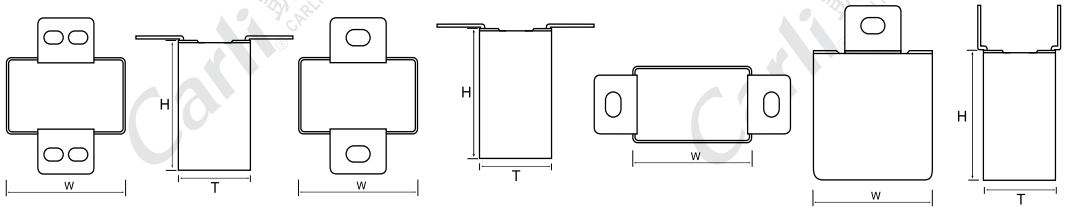
Applications
- Automobile hybrid power,electric vehicle,FCEV electric drive system,fuel cell,DC-Link Application power module,Energy storage filter

电气特性/ Specifications （在额定功率和额定温度下）

Item	specification
引用标准/Reference standard	AEC-Q200D-2010 GB/T17702、IEC61071
气候类别/Climatic category	40/85/21
工作温度/Operating Temperature	-40℃~+105℃ (+70℃~+105℃:derating factor1.5% per℃ for Un(DC)and AC current Irms,70℃～105℃时Dc电压和AC电流Irms衰减系数 2.5%/度)
额定电压 Undc at 70℃	450VDC~1100VDC
容量范围(uF)/C- Range	＜5000uF(customer specific design)
容量偏差/Capacitance tolerance	±5%(J), ±10%(K)
散逸因素/Dissipation Factor	≤0.0002（100Hz,20℃)
绝缘电阻/Insulation Resistance	≥10,000s (100VDC,60s,20℃)
端子间耐电压(Vtt)/Withstand Voltage between T/T	1.5*Undc , (10s,20℃±5℃)
端子对外壳耐电压/Withstand Voltage between T/C	3000Vac / (10s,20℃±5℃)
工作寿命/Operation life time	Reference life expectancy curve
失效率/Failure rate	50FIT
过电压/Over voltage	1.1Un 30% of on-load-dur
	1.15Un 30% min/day
	1.2Un 5min/day
	1.3Un 1min/day
	1.5Un 100ms every time,1000 times during the
	life of the capacitor

*note : We can design the capacitors as customer's requests 可依照客户需求设计.产品祥细型号及尺寸可联系技术部门

EV&HEV金属化聚丙烯膜快充电容器
Metallized Polypropylene Film Turbo Charging Capacitor for EV&HEV



Type1　　Type2　　Type3　　Type4

特点
- 低ESR和ESL
- 优越的dv/dt使产品过压过流更快
- 通过分布电流技术大幅降低产品内部芯子温升
  环温　85℃温升≤8℃
  环温 105℃温升≤6℃
- 高温耐压T/T:1.5*Undc(105℃，60S),产品漏电流≤10mA
  T/C:3000VAC/60S,不发生闪烁或介子击穿
- THB测试：Undc，85℃，RH 85%,500H,△C≤±5%
  1000H,△C≤±10%

结构
- 结构:内部串联卷绕结构
- 介质:聚丙烯膜
- 电极:双面金属化膜
- 引出端:铜片端
- 封装:UL94V-0阻燃性壳体和环氧树脂封装

典型应用
- 汽车无线电驱动系统、汽车充电桩、快充线路储能系统等

Features
- Low ESR and ESL
- Superior dv/dt makes product over-voltage and flow faster
- The temperature rise of the product's internal core is greatly reduced by distributed current technology
  Circumstance temperature 85℃ Temperature rise≤8℃
  Circumstance temperature105℃ Temperature rise≤6℃
- High temperature pressure T/T:1.5*Undc(105℃，60S),Product leakage current≤10mA
  T/C:3000VAC/60S,No flashoter or permanent breakdomn shall occur
- THB test：Undc，85℃，RH 85%,500H,△C≤±5%
  1000H,△C≤±10%

Construction
- Construction ：Wound capacitor with internal series connection
- Dielectric : PP film
- Capacitor electrode : Double side matellized PE film
- Strap terminals : Cu lug terminals
- Encapsulatin : flame-retardent plastic case with epoxy resion seal,UL94V-0

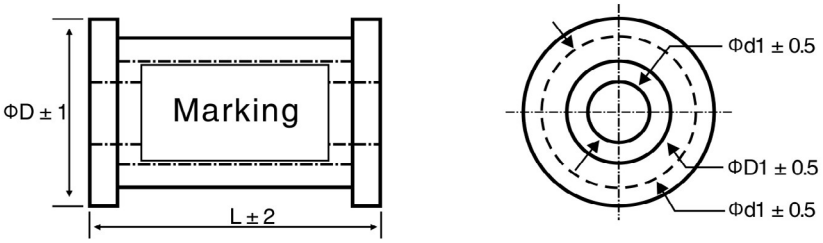
Applications
- Automobile radio drive system,automobile electric charging pile quick charge line energy storage system

电气特性/ Specifications （在额定功率和额定温度下）

Item	specification
引用标准/Reference standard	IEC61071,GBT17702.1:2013
气候类别/Climatic category	40/105/21
工作温度/Operating Temperature	-25℃~+105℃(+85℃~+105℃:derating factor 2.5% per℃ for Un(DC)and AC current Irms, 85～105℃时Dc电压和AC电流Irms衰减系数 2.5%/度)
额定电压 Undc at 85℃/Rated Voltage Undc	1600VDC/1800VDC/2000VDC
AC电压有效值(at f<1Khz)) Urms AC Voltage Vac	400VAC/450VAC/500VAC
容量范围/Capacitance Range（uF）	0.2uF、0.22uF、0.25uF、0.33uF、0.4uF、0.5uF、0.68uF、0.75uF
容量偏差/Capacitance Tolerance	±5%(J), ±10%(K)
散逸因素/Dissipation Factor	≤0.001(22℃,1KHZ)
ESR等效串联电阻	1.2mΩ(22℃,100KHZ)
ESL等效串联电感	≤ 10nH
DV/DT	3000V/us
电流/Irms	50A~60A(,70℃,100KHZ)
热电阻/Ren	0.8K/W(自然冷却)
绝缘电阻/Insulation Resistance	IR ≥100,000 MΩ(100VDC charged 1min , 60s, 70℃)
端子间耐电压/Withstand Voltage between T/T	1.4*Undc , 10s/1.4*Undc , 10s
端子对外壳耐电压/Withstand Voltage between T/C	3000Vac / 50HZ, 60S,70℃
寿命测试/Endurance test	1.25*Urdc at 85℃ for 2000H.

*note : We can design the capacitors as customer's requests 可依照客户需求设计.

金属化聚丙烯膜馈通穿心电容器
Metallized Polypropylene Film Feed Through Capacitors



名称：型号：FCA，代号：FA

名称：Type:FCA,Code:FA

特点
- 高馈通电流能力
- 接触面面积：加强，平整，均匀设计
- 接触面积大
- 能承受更强的外力
- 极低的损耗和低的电感
- 高绝缘电阻
- 不易氧化-接触电阻低

Features
- High feed through current capacity
- Contact Surface Area:Reinforced,flat and even design
- Large contact surface area
- Can withstand stronger external force
- Very low losses and low inductance
- High insulation resistance
- Not easy to oxidation-lower contact resistance

结构
- 介质:聚丙烯膜
- 电极:金属化膜
- 封装:迈拉胶带封装

Construction
- Dielectric:PP film
- Capacitor electrode:Metallized plastic film
- Encapsulatin:Mylar tape encapsulation

典型应用
- 高频大电流交流/直流滤波电路
- MEC滤波器应用

Applications
- High Frequency and High Current AC/DC Filter circuit
- EMC Filter application

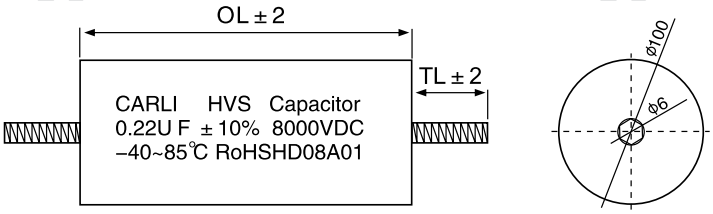
电气特性/ Specifications

Item	specification
引用标准/Reference standard	IEC60384,GB/T2693
气候类别/Climatic category	40/85/21
工作温度/Operating Temperature	-40°C~+85°C
电压范围 交流和直流 Voltage AC&DC is available	48V.AC~1200V.AC 100V.DC~3000V.DC
容量范围/Capacitance Range（uF）	0.1uF~20uF
容量偏差/Capacitance Tolerance	±5%(J), ±10%(K)
散逸因素/Dissipation Factor	≤0.001(1KHz,25°C)
绝缘电阻/Insulation Resistance	IR ≥5,000s,C＞0.33uF IR ≥15,000MΩ,C≤0.33uF (100VDC charged 1min,60s,20°C)
端子间耐电压/Withstand Voltage between T/T	DC:1.6*Un,10s AC:4.3Un(VDC),10s
端子对外壳耐电压/Withstand Voltage between T/C	3000Vac / 50Hz, 10S
最大安装扭矩/Max Torque of Installation	2.0Nm

*note : We can design the capacitors as customer's requests 可依照客户需求设计.

高压直流串联金属化聚丙烯膜电容器

High DC voltage series type Metallized Polypropylene Film Capacitor



1、名称：型号:HVS ,代号:HV
2、结构：内部串联卷绕结构
2.1 、 介质 : 聚丙烯膜
2.2 、 电极 :金属化PP膜
2.3 、引出端 : 轴向引出镀锡铜线或AWG线材
2.4 、封装 ：UL94V-0阻燃性壳体和环氧树脂封装

3、主要用途：高压直流吸收
4、主要特性：
4.1 、广泛用于高压直流吸收电路中
4.2、损耗小，内部温升小
4.3、优异的阻燃性
4.4、高稳定性和可靠性

1、Type name ：HVS ,Code:HV
2、Construction ：Wound capacitor with internal series connection
2.1 、Dielectric： PP film
2.2 、Capacitor electrode ：Metallized PP film
2.3 、Strap terminals ：Axial solder coated or Tinned Cu wire, AWG as specified in table
2.4 、Encapsulatin ：flame-retardent high density plastic case with epoxy resion seal,UL94V-0
3、Main applications: High DC voltage snubber
4、Features ：
4.1 、Widely used in high voltage snubber circuit
4.2、 Low less and small inherent temperature rise
4.3、 Excellent active and passive flame retardent
4.4、 High stability and reliability

5. Electrical specifications- 电气特性

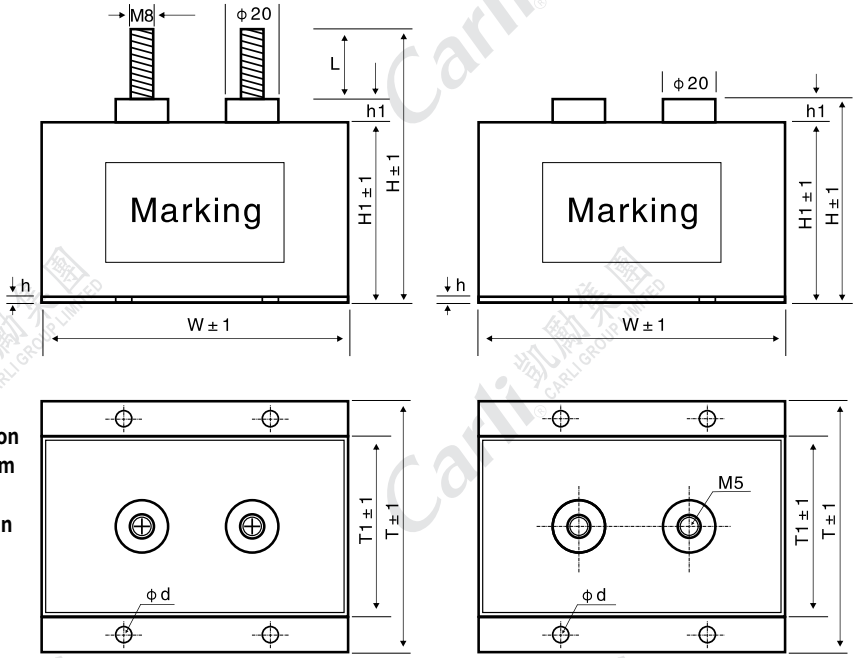
Item	Specification					
Climatic category 气候类别	40/85/21					
Operating Temperature 工作温度	-40°C~+85°C (70°C~85°C,derating factor 1.5% per°C for Un(DC), 70°C～85°C时Dc电压衰减系数 1.5%/度)					
Rated Voltage Undc 额定电压(VDC at 70°C)	4000	6000	8000	10000	12000	16000
Capacitance Range 容量范围（μF)	0.001~0.68	0.001~0.47	0.001~0.22	0.001~0.1	0.00025~0.047	0.001~0.033
Capacitance Tolerance 容量偏差	±5%(J), ±10%(K),±20%(M)					
Dissipation Factor 散逸因素	≤0.002（1Khz,25°C) ;					
Insulation Resistance 绝缘电阻	IR ≧50,000 MΩ，(500VDC charged 1min , test 30s, 20°C)					
Withstand Voltage between T/T 端子间耐电压	1.4*Undc , 2s					
Withstand Voltage between T/C 端子对外壳耐电压	3000Vac / 50HZ, 60S					

双面金属化聚丙烯膜高频谐振电容器
Double-sided Metallized Polypropylene Film High Frequency Resonant Capacitors

名称：型号 SCK,代号 SK

结构
- 内部串联卷绕结构
- 双面金属化聚丙烯膜
- M8螺纹端子引出
- UL-94V0阻燃性壳体和环氧树脂封装

典型应用
- 用于X射线谐振电路



名称：Type:SCK,Code:SK

Construction
- Wound capacitor with internal series connection
- Double-sided Metallized Polypropylene PP film
- M8 Threaded Terminal connection
- Flame-retardent plastic case with epoxy resion seal,UL-94V0

Applications
- Used in X-ray resonant circuits

电气特性/ Specifications

Item	specification
引用标准/Reference standard	IEC61071,GB/T17702. 1:2013
工作温度/Operating Temperature	-55℃~+105℃
额定电压（VDC at 85℃）/Rated Voltage Undc	1000VDC
AC电压有效值（at f＜1KHz） / Urms AC Voltage Vac	230VAC/700VAC
容量范围/Capacitance Range（uF）	2.0uF
容量偏差/Capacitance Tolerance	±10%(K)
散逸因素/Dissipation Factor	≤0.0005 (1KHz,25℃)
谐振频率/Resonant Frequency (KiloHertz)	562. 7/711.76
等效串联电阻/ESR	1.0MΩ (25℃,35KHz)/1.0MΩ (25℃,65KHz)
DV/DT	2000V/us / 8950V/us
绝缘电阻/Insulation Resistance	IR ≥15,000MΩ(100VDC charged 1min,60s)/ IR ≥50,000MΩ(100VDC charged 1min,60s)
端子间耐电压/Withstand Voltage between T/T	1.5*Undc,10s
端子对外壳耐电压/Withstand Voltage between T/C	3000Vac / 50Hz, 60S,70℃
寿命测试/Endurance test	1.25*Urdc at 85℃ for 2000H

*note : We can design the capacitors as customer's requests 可依照客户需求设计.

FILM CAPACITORS
MEMO

FILM CAPACITORS MEMO