



宸瑞科技  
CRE POWER TECHNOLOGY

# CAPACITOR



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POWER LINKS SUCCESS





# 功率型薄膜电容器供应商

## Professional film capacitor Supplier

无锡宸瑞新能源科技有限公司，是一家专业生产功率型薄膜电容的高新技术企业，专注于电力电子技术应用领域。

公司致力于工业变频、电动汽车、可再生能源（光伏/风电）、轨道交通、电力传输、医疗电子等领域 的应用与开发，为客户提供可靠的电容器解决方案。产品主要应用于储能/脉冲、DC-Link、IGBT吸收保护、高压谐振、耦合以及AC滤波等场合。

专业的技术研发与可靠的品质保障是我们产品的立足根本，宸瑞作为高新技术企业，拥有电力电子薄 膜电容器前端的研发与制造团队。现已拥有四十余项专利证书，并参与制定了10项国家、行业标准、通过 ISO-9001、IATF16949、ISO14001/45001、VDE和 UL等质量体系及产品认证，并且与国际知名的研究机构成立了电力电子研发工程中心，我们致力于寻求与更多优秀伙伴的战略合作，共同探索更前沿的应用领域。

未来，宸瑞将打造全新制造中心，逐步建成数字化智慧工厂，并将继续引领电力电子领域薄膜电容器的服务、研发与制造方向，为地球环境和清洁能源提供强力支撑。

宸瑞的商标CRE代表着：

C-Contribution “参与” 和 “奉献”  
R-Reinforcement “提升” 和 “巩固”  
E-Excellence “卓越” 和 “精进”

Wuxi CRE New Energy Technology Co., Ltd. is a high-tech enterprise specializing in the production of power film capacitors, focusing on the applications of power electronics.

CRE is committed to the demanding markets in industrial frequency conversion, electric vehicles, renewable energy (photovoltaic/wind power), rail traction, power transmission, medical electronics and others, developing and supplying customers with exclusive capacitor solutions. The products are mainly used in energy storage/pulse, DC-Link, IGBT absorption protection, high voltage resonance, coupling and AC filtering.

As an emerging high-tech enterprise, CRE has a front-end R&D and manufacturing team for power electronic film capacitors, and established power electronics R&D engineering centers with internationally renowned research institutions. So far, CRE has more than 40 inventions and utility model patents and participated in the development of 10 national and industry standards, certified with ISO-9001, IATF16949, ISO14001/45001, and UL. We dedicate to develop more business partners for driving the power innovation.

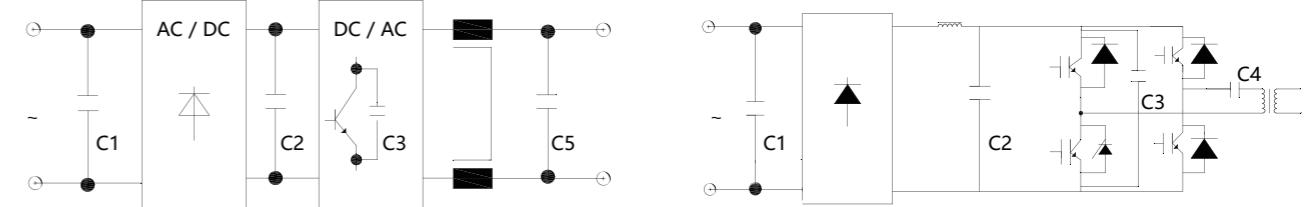
In the future, CRE aims to build an advanced manufacturing center, which will develop from scale to automation and visualization direction, gradually building a networked and digital intelligent factory. We will continue to lead the service, R&D, and manufacturing direction of film capacitors in the field of power electronics, providing strong support for the global environment and clean energy.

CRE's trademark CRE stands for:  
C-Contribution "Participation" and "Dedication"  
R-Reinforcement "Boost" and "Consolidate"  
E-Excellence "Excellence" and "Excellence"

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典型电路图



序号 No.	功能 Function	PCB安装系列 For PCB mounting series	螺纹式、爆片式引出系列 Screw,lug terminals series
C1	输入交流滤波 AC filter-Input	AKMJ-PS	AKMJ-S/AKMJ-MC/AKMJ-MT
C2	直流滤波 DC-Link	DMJ-PS/DMJ-MT	DKMJ-S/DMJ-MC DMJ-PC/DMJ-MT/DK MJ-AP
C3	缓冲吸收 Snubber	RMJ-PS/SMJ-TE	SMJ-P/SMJ-TC
C4	谐振 Resonance	RMJ-PS	RMJ-MT/RMJ-PC
C5	输出交流滤波 AC filter-Output	AKMJ-PS	AKMJ-S/AKMJ-MC/AKMJ-MT



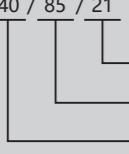
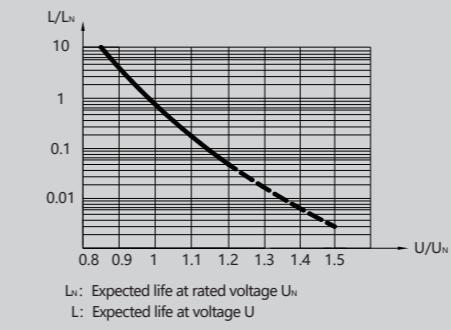
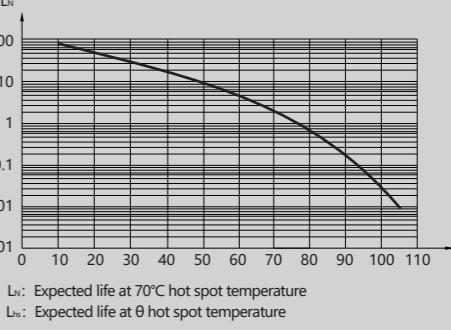
# 常用标准术语

## Terminologies

1.额定容量C <sub>N</sub>	1.Rated capacitance C <sub>N</sub> 电容器在20°C/100Hz下的设计容量。	Designed capacitance of the capacitor at 20°C/100HZ.	9.最大电流I <sub>max</sub> 连续运行时的最大电流的方均根值。	9.Maximum current I <sub>max</sub> Maximum rms current for continuous operation.
2.额定电压U <sub>N</sub>	2.Rated voltage U <sub>N</sub> <p>对采用IEC 60831-1/-2标准的电容，仅指设计电容器时规定的交流电压方均根值。对采用IEC 61071标准的电容器，可分为：</p> <p>额定交流电压UNAC:设计电容器时所采用的反复型波形的任一极性的最高运行峰值周期电压。</p> <p>额定直流电压UND:设计电容器时所采用的非反复型波形的任一极性的可连续运行的最高运行峰值电压。</p>	Rated AC voltage UNAC:repeatedly used in the design capacitor waveform either polarity,the maximum operating peak cycle voltage. Rated DC voltage of the UNDC:polarity in any of the non-repetitive waveform used in the design capacitor continuous operation of the maximum operating peak voltage.	10.最大峰值电流 $\hat{I}$ 在连续运行中允许重复出现的最大峰值电流其数值为： $\hat{I}=C_N \times (dv/dt)$ , 其中dv/dt表示电压爬升速率，即在运行中允许重复出现的最大电压爬升速率，常用来代替 $\hat{I}$ 使用。	10.最大峰值电流 $\hat{I}$ Maximum peak current $\hat{I}$ Maximum permitted repetitive peak current that can occur during continuous operation.The value is following: $\hat{I}=C_N \times (dv/dt)$ Where dv/dt indicates rate of voltage rise,which means maximum permitted repetitive rate of voltage rise of operational voltage usually using instead of $\hat{I}$ .
3.有效期电压U <sub>rms</sub>	3.Rms voltage U <sub>rms</sub> 电容器在连续运行过程中允许出现的最大正弦交流电压的方均根值。	Root mean square of max.permissible value of sinusoidal a.c. Voltage in continuous operation.	11.最大浪涌电流I <sub>s</sub> 有切换或系统中任何别的扰动所导致的允许出现的峰值电流，此电流只允许出现有限的次数，且每次持续时间应比基本周期短。	11.Maximum surge current I <sub>s</sub> Peak non-repetitive current induced by switching or any other disturbance of the system which is allowed for a limited number of times,for durations shorter than basic period.
4.纹路电压U <sub>r</sub>	4.Ripple voltage U <sub>r</sub> 单向电压的峰到峰的交流分量。一般来讲，纹波电压的方均根值应低于额定电压的10%。	Peak-to-peak alternating component of the unidirectional voltage.In general,the square of the ripple voltage rms should be less than 10% of the rated voltage.	12.等效串联电阻 ESR 一个有效电阻，当它和所探讨的电容器有相等电容值的理想电容器串联时，在规定的运行条件下，该电阻的损耗功率将等于该电容器中耗散的有效功率。	12.Equivalent series resistance ESR Effective resistance which,if connected in series with an ideal capacitor of capacitance value equal to that of the capacitor In question,would have a power loss equal to active power dissipated in that capacitor under specified operating conditions.
5.非周期冲击电压U <sub>s</sub>	5.Non-recurrent surge voltage U <sub>s</sub> 由切换或系统中任何别的扰动所导致的峰值电压，此电压只允许出现有限的次数。且每次持续时间应比基本周期短。	Peak voltage induced by aswitching or any other disturbance of the system which is allowed for a limited number of times and for durations shorter than the basic period.	13.介质损耗因数tgδ <sub>d</sub> 电容器的介质材料在额定频率下的损耗常数，聚丙烯薄膜的典型介质损耗因素为 $2 \times 10^{-4}$	13.Dielectric dissipation factor tgδ <sub>d</sub> Constant dissipation factor of the dielectric material for all capacitors at their rated frequency.The typical loss Factor of polypropylene film is $2 \times 10^{-4}$ .
6.极间耐压U <sub>t-t</sub>	6.Voltage test between terminals Ut-t 所有电容器在交货前进行的例行试验（室温下）。在用户处可进行再次的测试，数据根据手册中所述的试验电压的80%。	Routine test of all capacitors conducted at room temperature,prior to delivery.A further test with 80% of the test voltage stated in the data sheet may be carried out once at the user' s location.	14.电容器的损耗因数tgδ 在规定频率的正弦波电压作用下，电容器的损耗功率除以电容器的无功功率，其值为等效串联电阻和容抗之比。	14.Loss factor of the capacitor tgδ The dissipation factor is ratio between reactive power of the impedance of the capacitor and effective power when capacitor is submitted to a sinusoidal voltage of specified frequency.It is that ratio between the equivalent series resistance and the capacitive reactance of a capacitor.
7.极壳耐压U <sub>t-c</sub>	7.Voltage test between terminals and case Ut-c 所有电容器外壳与端子间的进行的例行试验（室温下）。在用户处可以重复进行。	Routine test of all capacitors between short-circuited terminals and case,conducted at room temperature.May be repeated at the user' s location.	15.介质损耗功率P <sub>d</sub> 电容器的电介质由于极化或电导引起的损耗，其值为： $P_d = \hat{U}^2 \times \pi \times f_0 \times C_N \times \operatorname{tg} \delta_0$ 直流电容器： $\hat{U} = U_{r\sqrt{2}}$ 交流电容器： $\hat{U} = U_{rms}$ GTO吸收电容器： $\hat{U} = \sqrt{2} U_{ND}$ f <sub>0</sub> : 施加在电容器上电压的基本频率 C <sub>N</sub> : 电容器	15.Dielectric power loss P <sub>d</sub> Loss power induced by dielectric polarization or dielectric conductance. The value is following: $P_d = \hat{U}^2 \times \pi \times f_0 \times C_N \times \operatorname{tg} \delta_0$ Where , for DC capacitors: $\hat{U} = U_{r\sqrt{2}}$ for AC capacitors: $\hat{U} = U_{rms}$ for GTO snubber capacitors: $\hat{U} = \sqrt{2} U_{ND}$ f <sub>0</sub> : fundamental frequency C <sub>N</sub> : capacitance
8.绝缘电压U <sub>i</sub>	8.Insulation voltage U <sub>i</sub> 设计电容器时规定的电容器端子对外壳或对地交流电压的方均根值。若未作说明，此绝缘电压等额定电压 (DC) 除以；或者等于额定电压 (AC) 。	When designing capacitor capacitor terminals on the shell or root value of ac voltage of the party. If not stated,then insulation voltage is equal to the rated voltage (DC) divided by the square root of 2; Or equal to rated voltage(AC)	16.焦耳损耗功率P <sub>j</sub> 当电容器通过有效电流时，由于串联电阻RS发热而引起的损耗，其值为： $P_j = I^2 rms \times R_s$	16.Joule power loss P <sub>j</sub> Loss power induced by series resistance of the capacitor under rms current. The value is following: $P_j = I^2 rms \times R_s$
			17.电容器的损耗功率P <sub>t</sub> 电容器所消耗的有效功率，由介质损耗与焦耳损耗组成，即： $P_t = P_d + P_j = I^2 rms \times ESR$ 。	17.Capacitor losses P <sub>t</sub> Active power dissipated in the capacitor,consists of dielectric loss and joule loss,i.e.P <sub>t</sub> =P <sub>d</sub> +P <sub>j</sub> =I <sup>2</sup> rms×ESR。

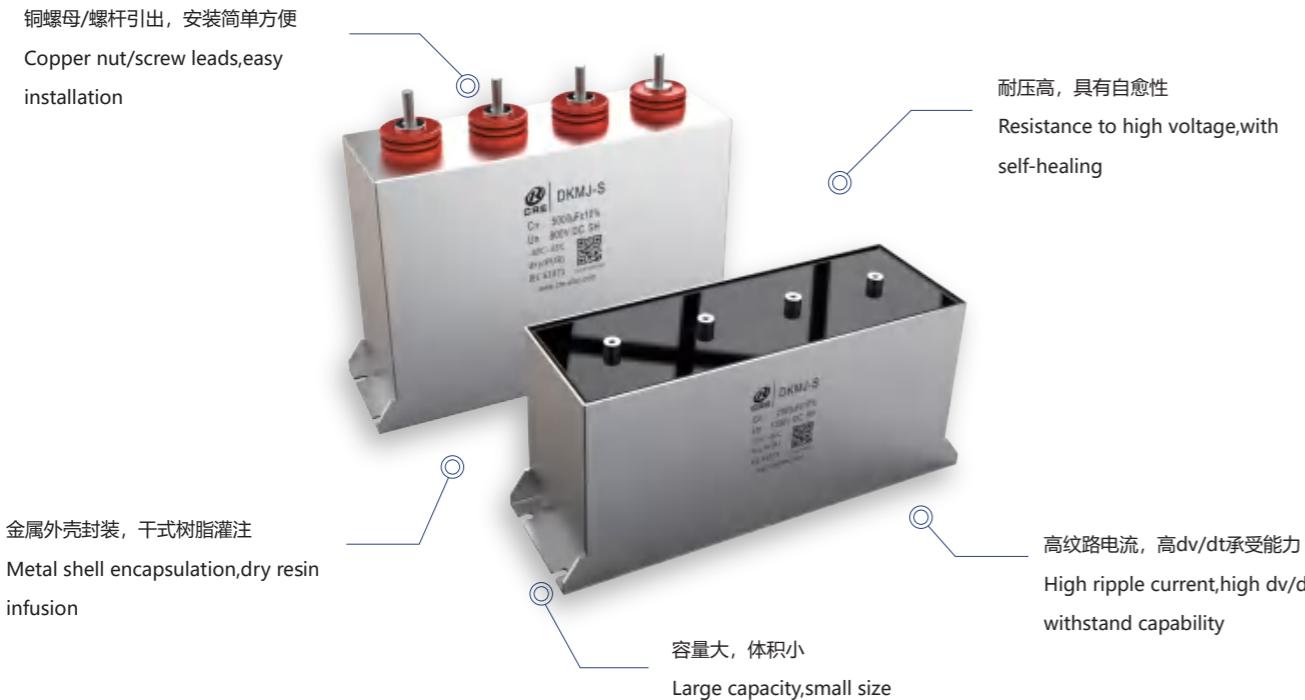
# 常用标准术语

## Terminologies

18.自感L <sub>s</sub>	18.Self-inductance L <sub>s</sub>	26.自愈性 (仅对金属化膜电容器)	26.Self-healing(Only for metallized film capacitor)
电容器由于自身结构或组成的原因所表现出来的电感。	Represents the sum of all inductive elements which are for mechanical and construction reasons-contained in any capacitor.	金属化膜的金属镀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，局部电击穿就可能发生，电击穿处的电弧放电所产生的能量足以使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。	The metal coatings of the metallized film,which are vacuum-deposited directly onto the plastic film,have a thickness of dozens of nanometers. At weak points or impurities in the dielectric,a dielectric breakdown would occur.The 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.
19.谐振频率F <sub>r</sub>	19.Resonance frequency F <sub>r</sub>	27.热点温度θ <sub>hs</sub>	27.Hotspot temperature θ <sub>hs</sub>
电容器的阻抗成为最小时的最低频率，其值为： $F_r=1/(2\pi\sqrt{L_s \times C_N})$ 。	Lowest frequency at which the impedance of the capacitor becomes minimum.The value is Following: $F_r=1/(2\pi\sqrt{L_s \times C_N})$ 。	电容器内部最热点处的温度。其值为： $\theta_{hs}=\theta_{amb}+P_t \times R_{th}$ 或者 $\theta_{hs}=\theta_{case}+P_t \times R_{thhc}$ 。	Temperature at the hottest spot inside the capacitor. The value is following: $\theta_{hs}=\theta_{amb}+P_t \times R_{th}$ 或者 $\theta_{hs}=\theta_{case}+P_t \times R_{thhc}$ .
20.运行温度θ	20.Operating temperature θ	28.失效率λ	28.Maximum current I <sub>max</sub>
在电容器达到热平衡状态时的外壳最热点温度。	Temperature of the hottest point on the case of the operating capacitor in thermal equilibrium.	表示元件在单位时间内发生失效的概率，数值上等于单位时间内失效的元件数与元件总数的比值。其单位为FIT (也写成fit或fit) , 1FIT=1/(10 <sup>9</sup> 小时)。举例：10000只元件在给定条件下工作10000小时出现了10只失效，则 $\lambda=10/(10000 \times 10000)=100FIT$ 。	It indicates the failure probability of components in unit time and the value is the number of failure components in unit time compared to the total number of components.The unit of λ is FIT (also expressed as Fit or fit)and 1FIT=1/(10 <sup>9</sup> hrs) .For example,10000pcs of components work at given conditions for 10000 hrs and 10 pcs of components failed,so $\lambda=10/(10000 \times 10000)=100FIT$ .
21.最高运行温度θ <sub>max</sub>	21.Maximum operating temperature θ <sub>max</sub>	29.电容器的预期寿命	29.Expected lifetime of the capacitor
电容器可以运行的最高外壳温度。	Highest temperature of the case at which the capacitor may be operated.	薄膜电容器的选用取决于施加的最高电压，并受施加的电压电容器的预期寿命与电容器的运行电压及热点温度有关。对于应用在不同场合的电容器它们的设计寿命是不同的。一般而言，应用在直流滤波电路中电容器，在额定电压及热点温度为70°C的应用条件下，它们的预期寿命可达到100000小时。电容器的预期寿命是一个基于实践经验和理论计算的统计学数值。以下图片是电容器的预期寿命与运行电压及热点温度之间的特性曲线。仅仅作为理论参考。对于工作条件与额定条件有差别的情况，可以联系我们的技术部门。	The expected lifetime of the capacitor depends on the applied voltage and the hot spot temperature during operation.For capacitors applied in different situation,the designed average service lifes are different . Generally speaking, capacitors used in DC-link circuits will have a expected lifetime of probable 100000 hrs at rated voltage and 70°C hot sport temperature. Expected lifetime is a statistical value calculated on the basis of experience and on the theoretical evaluations.The following diagrams show the correlation between expected life,operating voltage and hot spot temperature.The diagrams should be considered only as a theoretical reference.Please consult our technical department in case of working condition different from the rated ones.
22.最低运行温度θ <sub>min</sub>	22.Lowest operating temperature θ <sub>min</sub>		
电容器可以运行的最低介质温度。	Lowest temperature of the dielectric at which the capacitor may be operated.		
23.热阻 R <sub>th</sub>	23.Thermal resistance R <sub>th</sub>		
热阻表征的是电容器的发热功率每上升1瓦，电容器内最热点的温度在环境温度的基础上升高的度数。	The thermal resistance indicates by how many degrees the capacitor temperature at the hotspot rises above θ <sub>amb</sub> per watt of the heat dissipation losse.		
24.气候类别	24.Climatic category		
电容器所属的气候类别用斜线分隔得三个数来表示 (IEC60068-1:40/85/21)。	The climatic category which the capacitor belongs to is expressed in three numbers separated by slashes, (IEC60068-1:40/85/21) .		
40 / 85 / 21  静态湿热实验的天数 (21天) 上线类别温度 (+85°C) 下线类别温度 (-40°C)	Days relevant to the damp heat test(21 days) The upper category temperature(+85°C) The lower category temperature(-40°C)		
25.绝缘电阻 (IR) /时间常数 (t)	25.Insulation Resistance (IR)/Time Constant(t)	 L <sub>n</sub> : Expected life at rated voltage U <sub>n</sub> L: Expected life at voltage U	 L <sub>n</sub> : Expected life at 70°C hot spot temperature L: Expected life at θ hot spot temperature
绝缘电阻为电容器充电后所加的直流电压和流经电容器的漏电流值的比值 (通常时间为1分钟) , 单位为MΩ。时间常数为绝缘电阻和电容器的乘积, 通常以秒表示, 公式如下: t[s]=IR[MΩ]×C[uF]。 一般情况下, 绝缘电阻用于描述小容量电容器的绝缘特性, 时间常数用于描述大容量 (如: C <sub>n</sub> > 0.33uF) 电容器的绝缘特性。	Of insulation resistance for the capacitor charging and the ratio of dc voltage and flowing through the capacitor leakage current value (usually) time for 1 minute, the unit is MΩ.Time constant is the product of the insulation resistance and capacitance,usually expressed in seconds, Formula is as follows: t[s]=IR[MΩ]×C[uF]. Under normal circumstances,the insulation resistance is used to describe the small capacity of capacitor insulating properties,the time constant is used to describe large capacity (such as:C <sub>n</sub> > 0.33uF)capacitor insulation characteristics.		

# DC-Link 金属化薄膜电容器 DKMJ-S series

## Metalized film capacitor



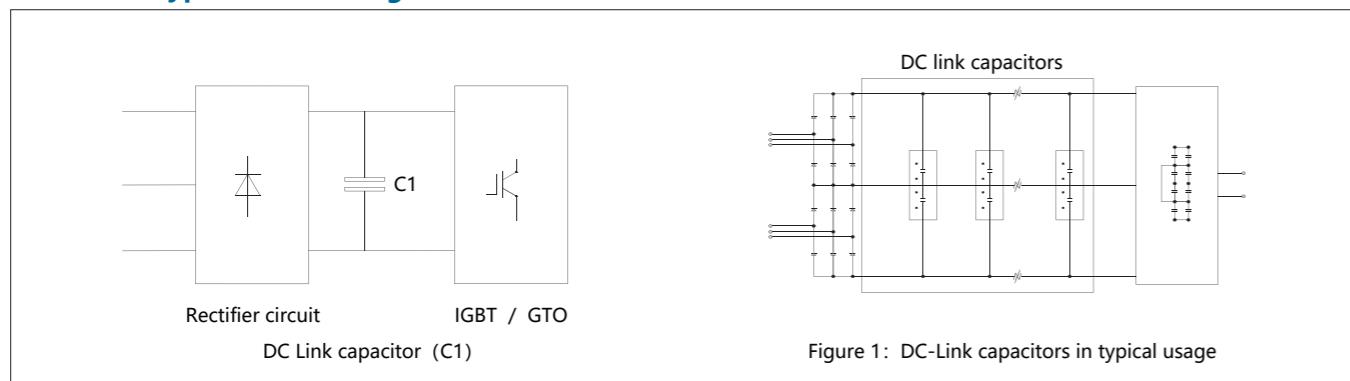
### 应用

- 广泛应用于DC-link电路中，作滤波储能用。
- 能替代电解电容，性能更优，寿命更长。
- 光伏逆变器，风电变流器；各种变频器及逆变电源；纯电动及混合动力汽车；SVG，SVC等各类电能质量管理设备。

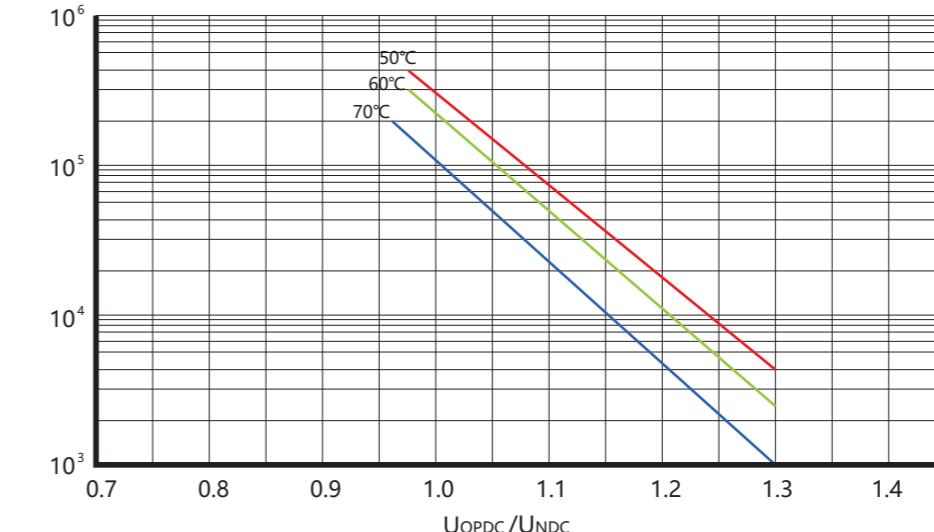
### Application

- Widely used in DC-link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter, wind power converter; All kinds of frequency converter and inverter power supply; Pure electric and hybrid cars; SVG, SVC devices and other kinds of power quality management.

### 典型线路图 Typical circuit diagram



预期寿命曲线图 Life expectancy in the graph



Θhotspot  
— 50°C  
— 60°C  
— 70°C

### 性能参数 Technical data

工作温度范围/Operating temperature range	Max.Operating temperature.,Top,max:+70°C Upper category temperature:+60°C Lower category temperature:-40°C	
容量范围 (C <sub>N</sub> ) /Capacitance range	100μF ~ 20000μF	
额定电压 (U <sub>N</sub> ) /Rated voltage	600V.DC ~ 4000V.DC	
容量偏差/Cap.tol	±5% (J) ; ±10% (K)	
耐电压/Withstand voltage	V <sub>t-t</sub>	1.5U <sub>N</sub> DC/60s
	V <sub>t-c</sub>	1000+2×U <sub>N</sub> /√2 (V.AC) 60s (min 3000V.AC)
过电压/Over voltage	V <sub>t-t</sub> V <sub>t-c</sub> V <sub>t-t</sub> V <sub>t-c</sub> V <sub>t-t</sub> V <sub>t-c</sub> V <sub>t-t</sub> V <sub>t-c</sub>	1.1U <sub>N</sub> (30% of on-load-dur.) 1.15U <sub>N</sub> (30min/day) 1.2U <sub>N</sub> (5min/day) 1.3U <sub>N</sub> (1min/day) 1.5U <sub>N</sub> (100ms every time, 1000 times during the lifetime) tgδ≤0.003 f=100Hz 介质损耗tgδ≤0.0002 (内置放电电阻)(实测) /(Built-in discharge resistor) (Actual measurement) 耐脉冲电流冲击/Withstand strike current 具体见规格表/See the specification sheet 有效电流/I <sub>rms</sub> 具体见规格表/See the specification sheet 杂散电感/ESL < 150nH 阻燃性/Flame retardation UL94V-0
损耗角正切/Dissipation factor	tgδ≤0.003 f=100Hz 介质损耗tgδ≤0.0002 (内置放电电阻)(实测) /(Built-in discharge resistor) (Actual measurement)	
绝缘电阻/Insulation resistance	(内置放电电阻)(实测) /(Built-in discharge resistor) (Actual measurement)	
耐脉冲电流冲击/Withstand strike current	具体见规格表/See the specification sheet	
有效电流/I <sub>rms</sub>	具体见规格表/See the specification sheet	
杂散电感/ESL	< 150nH	
阻燃性/Flame retardation	UL94V-0	

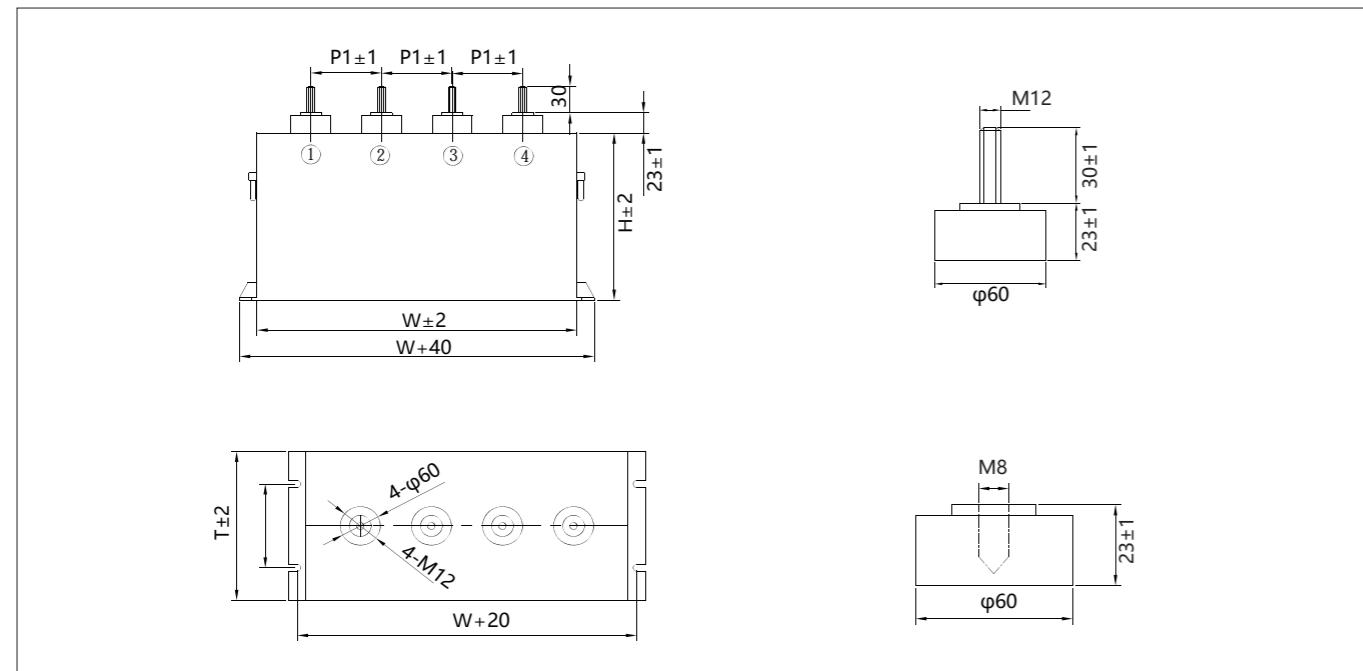
# DC-Link 金属化薄膜电容器 DKMJ-S series

## Metalized film capacitor

### 性能参数 Technical data

最高使用海拔高度/Maximum altitude	2000m Derating should be considered when the altitude is between 2000m -5000m. (For each increase of 1000m, voltage and current will be reduced by 10%)
短期寿命/Life expectancy	100000h( $U_N \theta_{hotspot} \leq 70^\circ C$ )
引用标准/Reference standard	IEC61071; IEC61881

### 外形图 The contour map



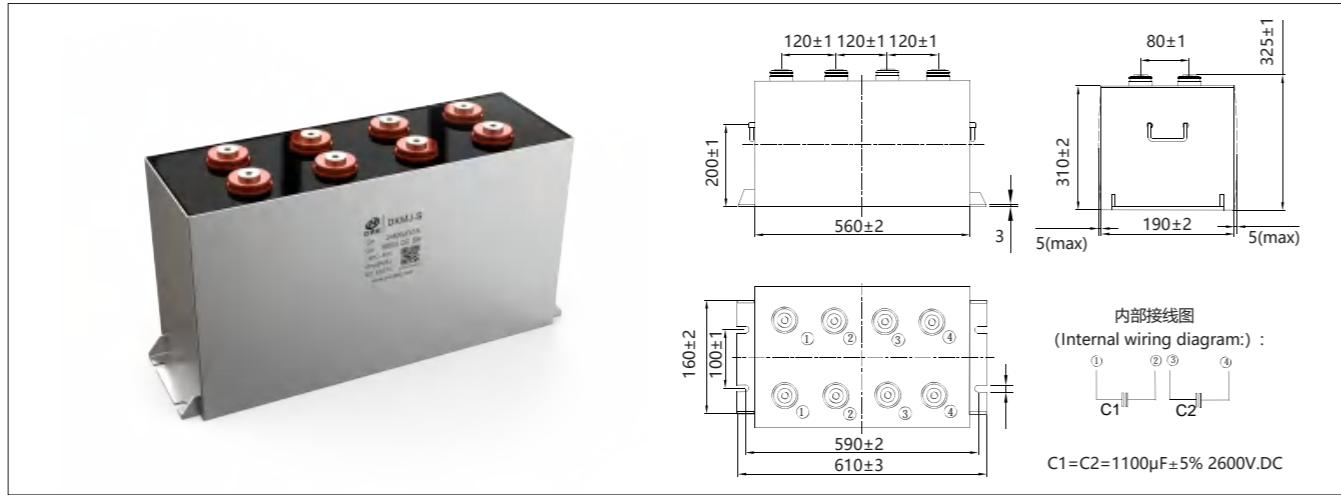
续上表

### 规格表 Specification table

$C_N$ ( $\mu F$ )	W (mm)	T (mm)	H (mm)	$dv/dt$ (V/ $\mu S$ )	$I_p$ (kA)	$I_{rms}$ @10kHz50°C (A)	$ESR$ @1kHz (m $\Omega$ )	$R_{th}$ (K/W)	Weight≈ (kg)
<b>UN 1200V.DC Us 1800V Ur 300V</b>									
5000	420	215	170	8	40.0	200	1	0.4	32
7500	420	215	235	7	52.5	250	0.9	0.3	43
10000	420	215	300	7	70.0	250	0.8	0.3	55.8
15000	420	215	430	5	75.0	300	0.6	0.3	76.9
<b>UN 1500V.DC Us 2250V Ur 450V</b>									
1200	340	105	220	10	12.0	120	1.1	0.9	17.1
3000	340	115	430	8	24.0	180	0.66	0.7	34.8
2000	420	115	240	10	20.0	150	0.95	0.7	23.8
4000	420	115	430	8	32.0	200	0.66	0.6	41.2
5000	340	235	350	8	40.0	250	0.8	0.3	58.4
4000	420	215	235	10	40.0	250	0.9	0.3	43.5
8000	420	215	430	8	64.0	300	0.6	0.3	76.9
<b>UN 2000V.DC Us 3000V Ur 600V</b>									
1000	340	125	245	12	12.0	150	0.95	0.7	22.4
1500	340	125	350	10	15.0	180	0.72	0.6	31.2
2000	420	125	360	10	20.0	200	0.72	0.5	39.2
2400	420	125	430	9	21.6	200	0.66	0.6	44.8
3200	340	235	350	10	32.0	250	0.8	0.3	46.4
4000	420	235	360	10	40.0	280	0.7	0.3	58.4
4800	420	235	430	9	43.2	300	0.6	0.3	67.2
<b>UN 2200V.DC Us 3300V Ur 600V</b>									
2000	420	235	245	12	24.0	150	0.9	0.7	40
2750	420	235	300	10	27.5	200	0.8	0.5	49.6
3500	420	235	360	10	35.0	200	0.7	0.5	58.4
<b>UN 3000V.DC Us 4500V Ur 800V</b>									
1050	420	235	245	20	21.0	150	0.9	0.7	40
1400	420	235	300	15	21.0	200	0.8	0.5	49.6
1800	420	235	360	15	27.0	200	0.7	0.5	58.4
<b>UN 4000V.DC Us 6000V Ur 1000V</b>									
600	420	235	245	20	12.0	150	0.9	0.7	40
800	420	235	300	20	16.0	200	0.8	0.5	49.6
1000	420	235	360	20	20.0	200	0.7	0.5	58.4
可以依照客户需求定制产品									

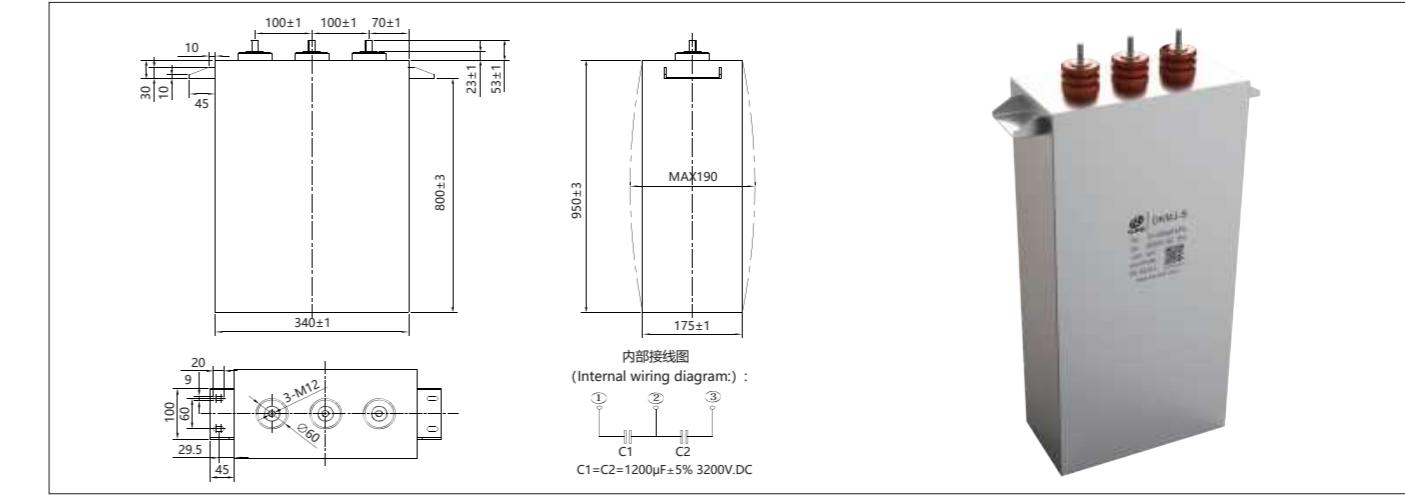
# DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

## Metalized film capacitor (Custom-made)



DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

工作温度范围/Operating temperature range	-40°C ~ 85°C	
贮存温度范围/Storage temperature range	-40°C ~ 85°C	
额定电压 ( $U_N$ ) /Rated voltage	2600V.DC	
额定容量 ( $C_N$ ) /Rated capacitance	2×1100μF	
容量偏差/Cap.tol	±5% (J)	
耐电压/Withstand voltage	Vt-t	1.5 $U_N$ /10s (20°C±5°C)
	Vt-c	6000V.AC/10s (50Hz, 20°C±5°C)
损耗角正切/Dissipation factor	$\text{tg}\delta \leq 0.003 f=100\text{Hz}$	
介质损耗 $\text{tg}\delta_0 \leq 0.0002$		
绝缘电阻/Insulation resistance	$R_s \times C \geq 10000\text{s}$ (at 20°C 100V.DC 60s)	
等效串联电阻/ESR	0.6mΩ(1kHz)	
自感/Ls	$\leq 120\text{nH}$	
热阻/Rth	0.8K/W	
额定电流/Max.current Irms	2×300A (50°C)	
浪涌电压/Nonrecurrent surge voltage(Us)	3900V.DC	
脉冲峰值电流/Maximum peak current(i)	2×11kA	
浪涌电流/Maximum surge current(Is)	2×33kA	
失效率/Failure quota	$\leq 100\text{fit}$	
预期寿命/Life expectancy	$\geq 100000\text{h}$ ( $U_N$ ; $\theta_{\text{hotspot}} \leq 70^\circ\text{C}$ )	
引用标准/Reference standard	IEC61071; IEC61881	
重量/Weight	$\approx 60\text{kg}$	
尺寸/Dimension	560mm×190mm×310mm	

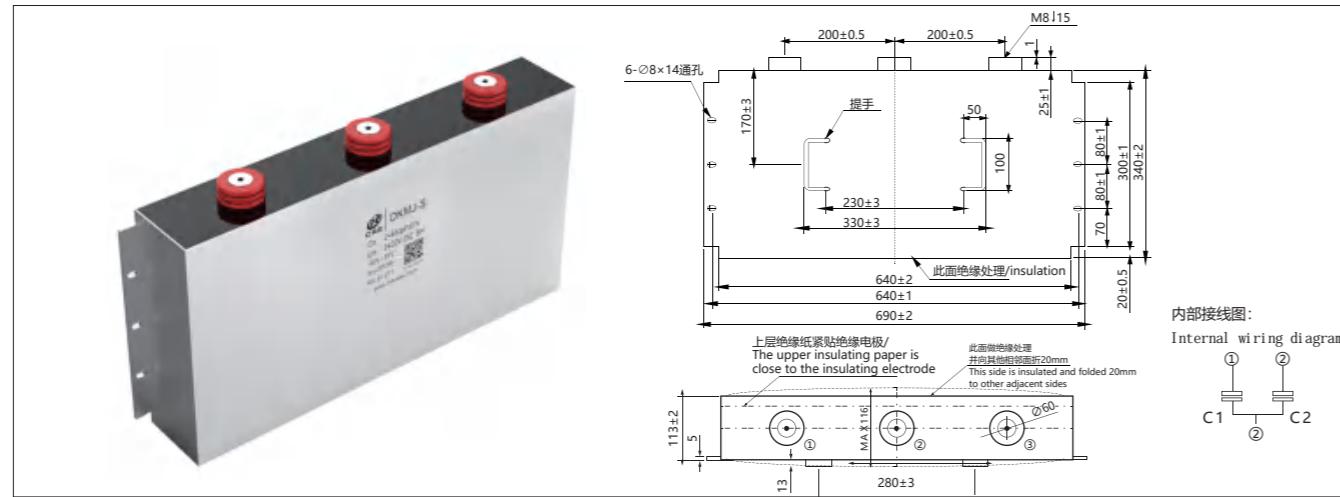


DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

工作温度范围/Operating temperature range	-40°C ~ 85°C	
贮存温度范围/Storage temperature range	-40°C ~ 85°C	
额定电压 ( $U_N$ ) /Rated voltage	3200V.DC	
额定容量 ( $C_N$ ) /Rated capacitance	2×1200μF	
容量偏差/Cap.tol	±5% (J)	
耐电压/Withstand voltage	Vt-t	1.5 $U_N$ /10s (20°C±5°C)
	Vt-c	6000V.AC/10s (50Hz, 20°C±5°C)
损耗角正切/Dissipation factor	$\text{tg}\delta \leq 0.003 f=100\text{Hz}$	
介质损耗 $\text{tg}\delta_0 \leq 0.0002$		
绝缘电阻/Insulation resistance	$R_s \times C \geq 10000\text{s}$ (at 20°C 100V.DC 60s)	
等效串联电阻/ESR	0.5mΩ(1kHz)	
自感/Ls	$\leq 150\text{nH}$	
热阻/Rth	0.7K/W	
额定电流/Max.current Irms	2×300A (50°C)	
浪涌电压/Nonrecurrent surge voltage(Us)	4800V.DC	
脉冲峰值电流/Maximum peak current(i)	2×12kA	
浪涌电流/Maximum surge current(Is)	2×24kA	
失效率/Failure quota	$\leq 100\text{fit}$	
预期寿命/Life expectancy	$\geq 100000\text{h}$ ( $U_N$ ; $\theta_{\text{hotspot}} \leq 70^\circ\text{C}$ )	
引用标准/Reference standard	IEC61071; IEC61881	
重量/Weight	$\approx 95\text{kg}$	
尺寸/Dimension	340mm×175mm×950mm	

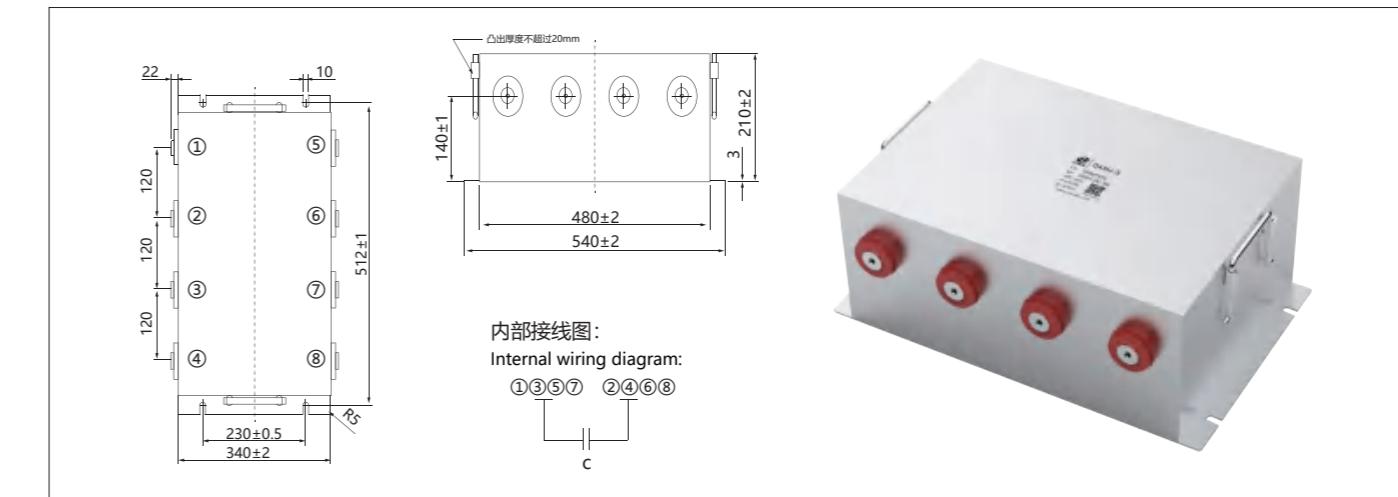
# DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

## Metalized film capacitor (Custom-made)



DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

工作温度范围/Operating temperature range	-40°C ~ 85°C	
贮存温度范围/Storage temperature range	-40°C ~ 85°C	
额定电压 ( $U_N$ ) /Rated voltage	2400V.DC	
额定容量 ( $C_N$ ) /Rated capacitance	2×880μF	
容量偏差/Cap.tol	±5% (J)	
耐电压/Withstand voltage	Vt-t	1.5 $U_N$ /10s (20°C±5°C)
	Vt-c	10000V.AC/60s (50Hz, 20°C±5°C)
损耗角正切/Dissipation factor	$\text{tg}\delta \leq 0.003$ f=100Hz 介质损耗 $\text{tg}\delta_0 \leq 0.0002$	
绝缘电阻/Insulation resistance	$R_s \times C \geq 10000\text{s}$ (at 20°C 100V.DC 60s)	
等效串联电阻/ESR	0.6mΩ(1kHz)	
自感/Ls	$\leq 50\text{nH}$	
热阻/Rth	2.5K/W	
额定电流/Max.current Irms	2×150A (70°C)	
浪涌电压/Nonrecurrent surge voltage(Us)	3600V.DC	
脉冲峰值电流/Maximum peak current(i)	2×13.2kA	
浪涌电流/Maximum surge current(Is)	2×39.6kA	
失效率/Failure quota	$\leq 100\text{fit}$	
预期寿命/Life expectancy	$\geq 100000\text{h}$ ( $U_N$ ; $\theta_{\text{hotspot}} \leq 70^\circ\text{C}$ )	
引用标准/Reference standard	IEC61071; IEC61881	
重量/Weight	$\approx 45\text{kg}$	
尺寸/Dimension	640mm×113mm×340mm	

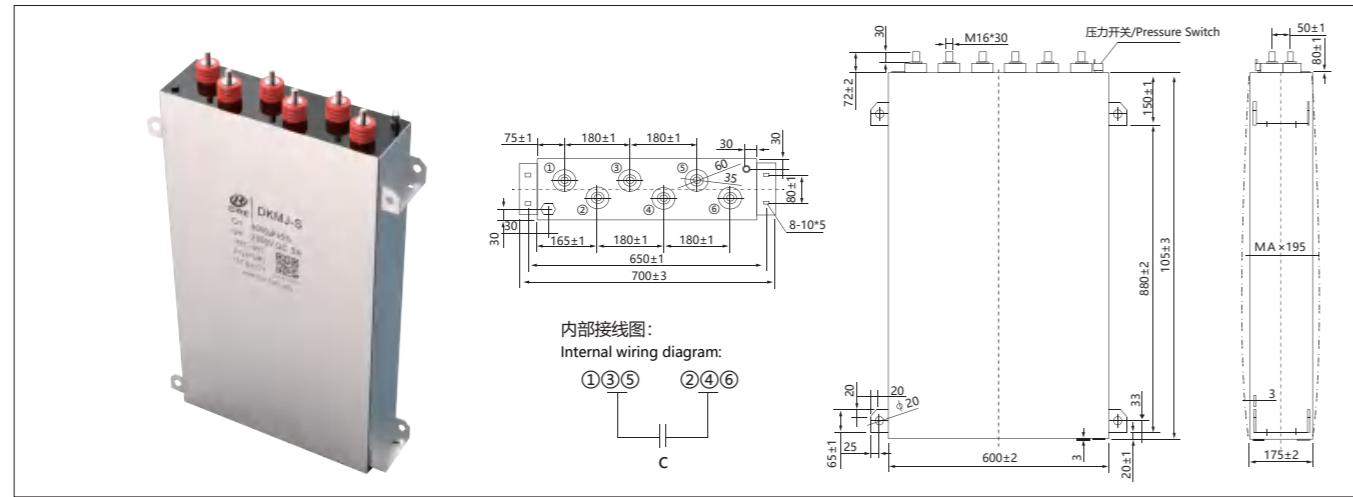


DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

工作温度范围/Operating temperature range	-40°C ~ 85°C	
贮存温度范围/Storage temperature range	-40°C ~ 85°C	
额定电压 ( $U_N$ ) /Rated voltage	2000V.DC	
额定容量 ( $C_N$ ) /Rated capacitance	3500μF	
容量偏差/Cap.tol	±5% (J)	
耐电压/Withstand voltage	Vt-t	1.5 $U_N$ /10s (20°C±5°C)
	Vt-c	10000V.AC/60s (50Hz, 20°C±5°C)
损耗角正切/Dissipation factor	$\text{tg}\delta \leq 0.003$ f=100Hz 介质损耗 $\text{tg}\delta_0 \leq 0.0002$	
绝缘电阻/Insulation resistance	$R_s \times C \geq 10000\text{s}$ (at 20°C 100V.DC 60s)	
等效串联电阻/ESR	0.9mΩ(1kHz)	
自感/Ls	$\leq 70\text{nH}$	
热阻/Rth	0.95K/W	
额定电流/Max.current Irms	250A (50°C)	
浪涌电压/Nonrecurrent surge voltage(Us)	3000V.DC	
脉冲峰值电流/Maximum peak current(i)	35kA	
浪涌电流/Maximum surge current(Is)	105kA	
失效率/Failure quota	$\leq 100\text{fit}$	
预期寿命/Life expectancy	$\geq 100000\text{h}$ ( $U_N$ ; $\theta_{\text{hotspot}} \leq 70^\circ\text{C}$ )	
引用标准/Reference standard	IEC61071; IEC61881	
重量/Weight	$\approx 55\text{kg}$	
尺寸/Dimension	480mm×340mm×210mm	

# DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

## Metalized film capacitor (Custom-made)



DC-Link 金属化薄膜电容器 (定制品) DKMJ-S series

工作温度范围/Operating temperature range	-40°C ~ 85°C	
贮存温度范围/Storage temperature range	-40°C ~ 85°C	
额定电压 ( $U_N$ ) /Rated voltage	2800V.DC	
额定容量 ( $C_N$ ) /Rated capacitance	9000μF	
容量偏差/Cap.tol	±5% (J)	
耐电压/Withstand voltage	Vt-t	1.5 $U_N$ /10s (20°C±5°C)
	Vt-c	6000V.AC/10s (50Hz, 20°C±5°C)
损耗角正切/Dissipation factor	$\text{tg}\delta \leq 0.00144 f=120\text{Hz}$	
介质损耗 $\text{tg}\delta_0$	$\text{tg}\delta_0 \leq 0.0002$	
绝缘电阻/Insulation resistance	$R_s \times C \geq 10000\text{s}$ (at 20°C 100V.DC 60s)	
等效串联电阻/ESR	0.14mΩ(1kHz)	
自感/Ls	$\leq 55\text{nH}$	
热阻/Rth	0.15K/W	
额定电流/Max.current Irms	750A (50°C)	
浪涌电压/Nonrecurrent surge voltage( $U_s$ )	4200V.DC	
脉冲峰值电流/Maximum peak current( $I_p$ )	32kA	
浪涌电流/Maximum surge current( $I_s$ )	800kA (5次)	
失效率/Failure quota	$\leq 100\text{fit}$	
预期寿命/Life expectancy	$\geq 100000\text{h}$ ( $U_N$ ; $\theta_{\text{hotspot}} \leq 70^\circ\text{C}$ )	
引用标准/Reference standard	IEC61071	
重量/Weight	$\approx 150\text{kg}$	
尺寸/Dimension	600mm×175mm×1050mm	



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# DC-Link 金属化薄膜电容器 DMJ-MC series

## Metalized film capacitor



### 应用

- 广泛应用于DC-Link电路中, 作滤波储能用。
- 能替代电解电容, 性能更优, 寿命更长。
- 光伏逆变器, 风电变流器; 各种变频器及逆变电源; 纯电动及混合动力汽车; SVG, SVC等各类电能质量管理设备。

### Application

- Widely used in DC-Link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter, wind power converter; All kinds of frequency converter and inverter power supply; Pure electric and hybrid cars; SVG, SVC devices and other kinds of power quality management.

### 外形图 The contour map

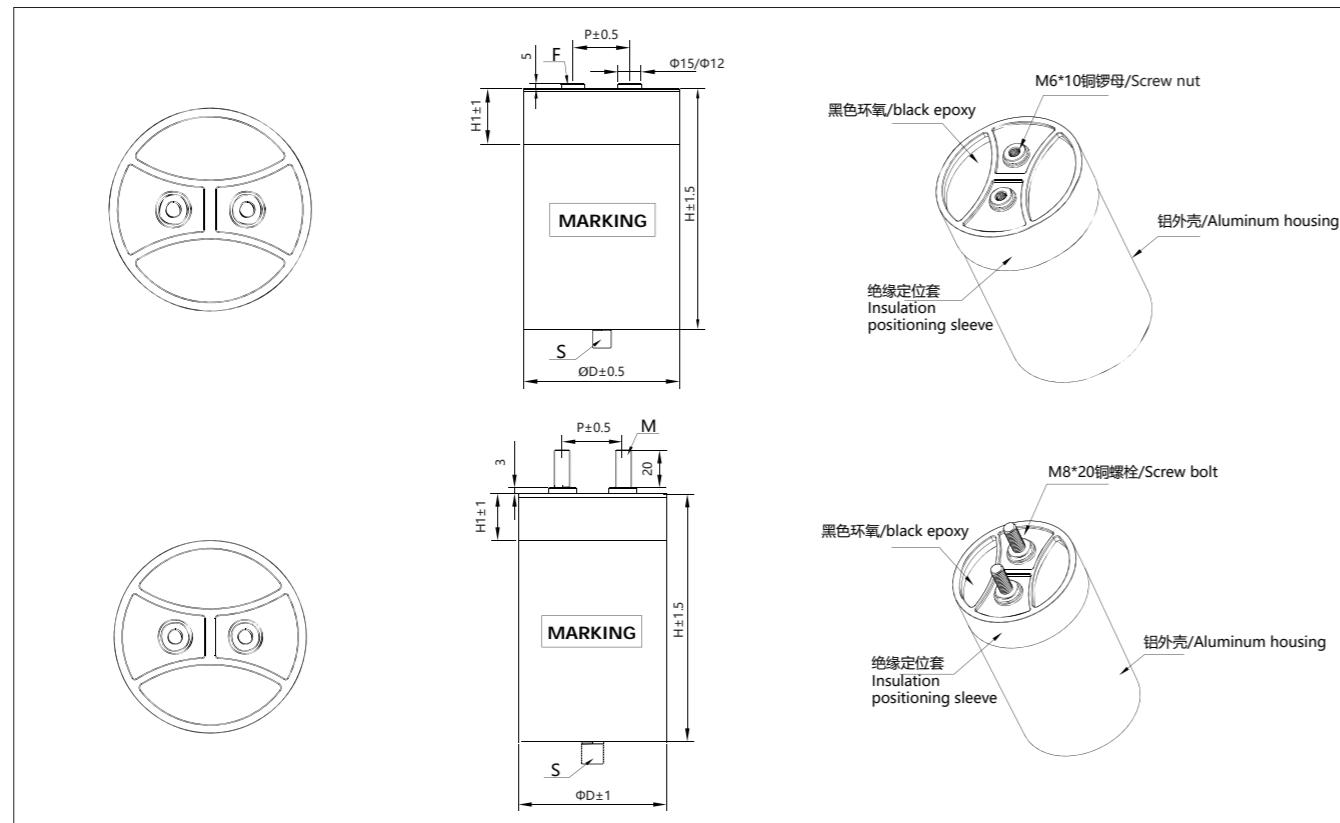
ΦD(mm)	P(mm)	H1(mm)	S	F	M
76	32	20	M12×16	M6×10	M8×20
86	32	20	M12×16	M6×10	M8×20
96	45	20	M12×16	M6×10	M8×20
116	50	30	M12×16	M6×10	M8×20
136	50	30	M16×25	M6×10	M8×20

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# DC-Link 金属化薄膜电容器 DMJ-MC series

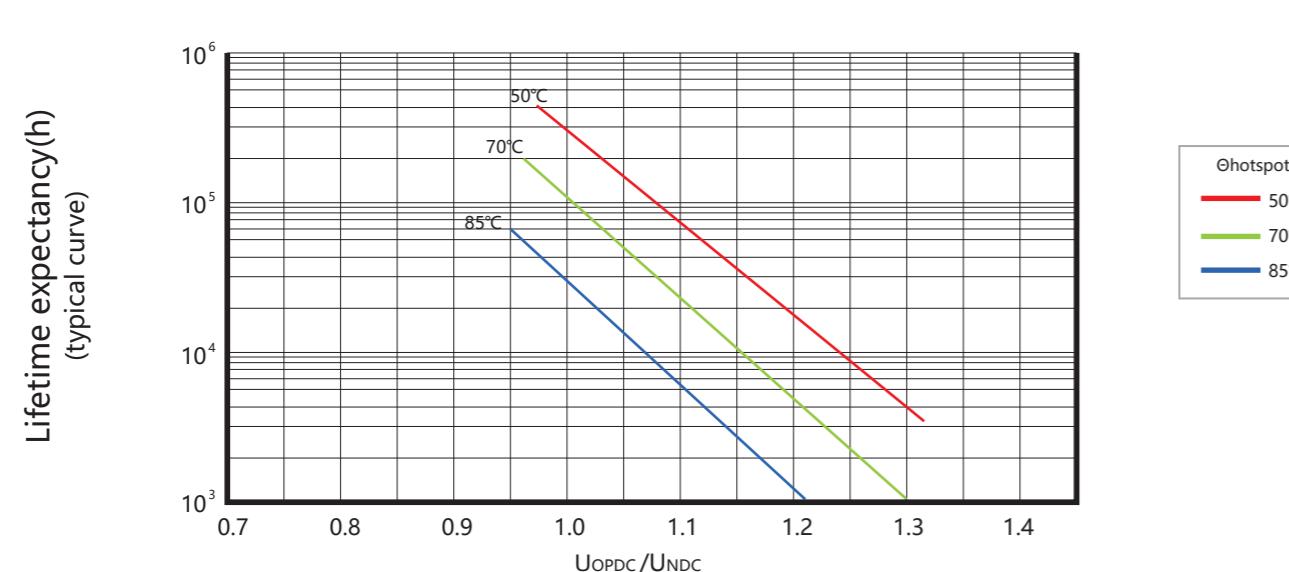
## Metalized film capacitor



### 性能参数 Technical data

工作温度范围/Operating temperature range	Max.Operating temperature.,Top,max:+85°C Upper category temperature:+70°C Lower category temperature:-40°C
容量范围 ( $C_N$ ) /Capacitance range	50μF~4000μF
额定电压 ( $U_N$ ) /Rated voltage	450V.DC~4000V.DC
容量偏差/Cap.tol	±5% (J) ; ±10% (K)
耐电压/Withstand voltage	V <sub>t-t</sub> 1.5 $U_N$ DC/60s V <sub>t-c</sub> 1000+2× $U_N/\sqrt{2}$ (V.AC)60S(min 3000V.AC)
过电压/Over voltage	1.1 $U_N$ (30% of on-load-dur.) 1.15 $U_N$ (30min/day) 1.2 $U_N$ (5min/day) 1.3 $U_N$ (1min/day) 1.5 $U_N$ (100ms every time,1000 times during the lifetime)
损耗角正切/Dissipation factor	tgδ≤0.003 , f=100Hz 介质损耗 tgδ <sub>0</sub> ≤0.0002
绝缘电阻/Insulation resistance	R <sub>x C</sub> ≥10000s (at20°C 100V.DC 60s)
耐脉冲电流/冲击/Withstand strike current	具体见规格表/See the specification sheet
有效电流/Irms	具体见规格表/See the specification sheet
阻燃性/Flame retardation	UL94V-0
最高使用海拔高度/Maximum altitude	3500m Derating should be considered when the altitude is between 3500m -5500m. (For each increase of 1000m, voltage and current will be reduced by 10%)
预期寿命/Life expectancy	100000h ( $U_N; \theta_{hotspot} \leq 70^\circ\text{C}$ )
引用标准/Reference standard	IEC61071; GB/T17702

预期寿命曲线图 Life expectancy in the graph



### 产品编码说明 Part number system

Model			Capacitance			UN(DC)					Cap. tol.	diameter	Height			Lead	Bottom mounted type	Shell surface treatment	Internal feature code																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																	
D	M	C	4	2	7	1	2	0	0	J	D	1	5	5	*	*	*	*	*																	
1	~	3	位: 型号代码/Model																																	
4	~	6	位: 标称容量/Nominal Capacity																																	
7	~	10	位: 额定电压(直流) / UN(DC)																																	
11	位: 容量偏差等级/Capacitance Tolerance																																			
12	位: 外壳直径/Shell diameter																																			
A	=φ50mm																																			
B	=φ65mm																																			
C	=φ76mm																																			
D	=φ86mm																																			



# DC-Link 金属化薄膜电容器 DMJ-MC series

## Metalized film capacitor

续上表

### 产品编码说明 Part number system

续上表

Model			Capacitance			UN(DC)				Cap. tol.	diameter	Height		Lead	Bottom mounted type	Shell surface treatment	Internal feature code																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20														
E=φ96mm																																	
F=φ116mm																																	
G=φ136mm																																	
13	~	15	位:	外壳高度/Shell height e.g. 155=155mm																													
16	位:	引出形式/Lead M: M8×20 螺栓引出/Screw bolt																															
			F: M6×10 螺母引出/Screw nut																														
17	位:	底部安装形式/Bottom mounted type S: 螺杆固定/Screw fixed																															
			T: 平底/Flat base																														
18	位:	外壳表面处理方式/Shell surface treatment 0: 无阳极气化处理/Anode-free gasification treatment																															
			1: 银色阳极氧化处理/Silver anodized finish																														
19	~	20	位:	内部特征码/Internal feature code																													

### 规格表 Specification table

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
<b>UN 500V.DC</b>												
380	76	75	50	10	3.8	11.4	45	2.2	4.5	32	0.5	DMC3870500*C075****
500	76	100	40	8	4.0	12.0	65	1.5	3.2	32	0.6	DMC5070500*C100****
750	76	130	50	5	3.8	11.3	65	1.6	3.0	32	0.75	DMC7570500*C130****
500	86	75	50	8	4.0	12.0	55	1.8	3.7	32	0.65	DMC5070500*D075****
1000	86	130	50	5	5.0	15.0	70	1.5	2.7	32	1.1	DMC1080500*D130****
650	86	100	40	5	3.3	9.8	75	1.2	3.0	32	0.9	DMC6570500*D100****
650	86	95	40	5	3.3	9.8	75	1.2	3.0	32	0.85	DMC6570500*D095****
650	96	75	50	5	3.3	9.8	60	1.5	3.7	45	0.75	DMC6570500*E075****
1250	96	130	50	4	5.0	15.0	80	1	3.1	45	1.2	DMC1280500*E130****
1800	116	130	50	4	7.2	21.6	85	0.8	3.5	50	1.6	DMC1880500*F130****
1450	86	180	60	4	5.8	17.4	90	0.9	2.7	32	1.55	DMC1480500*D180****
2400	116	155	50	3	7.2	21.6	90	0.8	3.5	50	1.9	DMC2480500*F155****
2700	116	190	60	3	8.1	24.3	100	0.8	2.5	50	2.45	DMC2780500*F190****
3200	116	233	60	3	9.6	28.8	100	0.65	2.7	50	3	DMC3280500*F233****



### 规格表 Specification table

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
<b>UN 600V.DC</b>												
480	76	95	45	4	1.9	5.7	65	1.5	5.6	32	0.60	DMC4870600*C095****
650	76	120	50	3	1.9	5.7	63	1.9	4.7	32	0.70	DMC6570600*C120****
780	76	140	55	2	1.6	4.8	59	2.2	4.6	32	0.75	DMC7870600*C140****
820	76	155	40	4	3.2	9.6	70	1.5	4.3	32	0.90	DMC8270600*C155****
950	76	175	45	4	3.8	11.4	70	1.5	4.2	32	1.00	DMC9570600*C175****
650	86	95	45	4	2.6	7.8	70	1.2	5.1	32	0.72	DMC6570600*D095****
880	86	120	50	3	2.6	7.8	70	1.5	4.7	32	1.00	DMC8870600*D120****
1000	86	136	55	2	2.0	6.0	65	1.8	4.6	32	1.10	DMC1080600*D136****
1100	86	140	55	2	2.2	6.6	67	1.7	4.6	32	1.15	DMC1180600*D140****
1100	86	155	40	4	4.4	13.2	70	1.4	4.4	32	1.25	DMC1180600*D155****
1300	86	175	45	4	5.2	15.6	70	1.4	4.3	32	1.30	DMC1380600*D175****
2000	86	252	55	4	8.0	24.0	70	1.1	3.0	32	1.80	DMC2080600*D252****
1200	116	95	45	4	4.8	14.4	80	0.7	5.4	50	1.20	DMC1280600*F095****
1600	116	120	50	3								

# DC-Link 金属化薄膜电容器 DMJ-MC series

## Metalized film capacitor

规格表 Specification table

续上表

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
<b>UN 700VDC</b>												
1500	116	140	55	3	4.5	13.5	80	1.1	4.9	50	1.75	DMC1580700*F140****
1500	116	158	40	5	7.5	22.5	100	0.8	3.6	50	2.00	DMC1580700*F158****
1800	116	175	45	5	9.0	27.0	100	1.0	3.4	50	2.20	DMC1880700*F175****
2300	116	230	50	5	11.5	34.5	100	0.8	2.7	50	2.80	DMC2380700*F230****
4200	136	295	60	4	16.8	50.4	100	0.8	2.0	50	4.90	DMC4280700*G295****
<b>UN 800VDC</b>												
290	76	95	45	6	1.7	5.2	61	1.7	5.6	32	0.60	DMC2970800*C095****
400	76	120	50	4	1.6	4.8	58	2.2	4.7	32	0.70	DMC4070800*C120****
480	76	140	55	4	1.9	5.8	55	2.5	4.6	32	0.75	DMC4870800*C140****
480	76	155	40	4	1.9	5.8	70	1.6	4.3	32	0.90	DMC4870800*C155****
560	76	175	45	6	3.4	10.1	70	1.7	4.2	32	1.00	DMC5670800*C175****
110	86	80	45	20	2.2	6.6	75	1.3	2.1	32	0.60	DMC1170800*D080****
150	86	95	45	30	4.5	13.5	80	1.2	2.0	32	0.72	DMC1570800*D095****
380	86	95	45	8	3.0	9.1	70	1.4	5.1	32	0.72	DMC3870800*D095****
400	86	85	40	6	2.4	7.2	35	3.0	4.1	32	0.65	DMC4070800*D085****
520	86	120	50	4	2.1	6.2	64	1.8	4.7	32	1.00	DMC5270800*D120****
580	86	136	55	4	2.3	7.0	62	2.0	4.6	32	1.10	DMC5870800*D136****
630	86	140	55	3	1.9	5.7	60	2.1	4.6	32	1.15	DMC6370800*D140****
650	86	155	40	3	2.0	5.9	70	1.5	4.4	32	1.25	DMC6570800*D155****
750	86	175	45	6	4.5	13.5	70	1.6	4.3	32	1.30	DMC7570800*D175****
1100	86	252	55	4	4.4	13.2	70	1.2	3.0	32	1.80	DMC1180800*D252****
720	116	95	45	6	4.3	13.0	80	0.8	5.4	50	1.20	DMC7270800*F095****
980	116	120	50	4	3.9	11.8	79	1.1	5.0	50	1.50	DMC9870800*F120****
1200	116	140	55	4	4.8	14.4	77	1.2	4.9	50	1.75	DMC1280800*F140****
1200	116	158	40	6	7.2	21.6	100	0.85	3.6	50	2.00	DMC1280800*F158****
1500	116	175	45	6	9.0	27.0	100	1.0	3.4	50	2.20	DMC1580800*F175****
1800	116	230	50	6	10.8	32.4	100	0.8	2.7	50	2.80	DMC1880800*F230****
3200	136	295	60	5	16.0	48.0	100	0.8	2.0	50	4.90	DMC3280800*G295****
<b>UN 900V.DC</b>												
290	76	95	45	6	1.7	5.2	56	2.0	5.6	32	0.60	DMC2970900*C095****
400	76	120	50	4	1.6	4.8	54	2.6	4.7	32	0.70	DMC4070900*C120****
480	76	140	55	4	1.9	5.8	51	2.9	4.6	32	0.75	DMC4870900*C140****
480	76	155	40	6	2.9	8.6	69	1.7	4.3	32	0.90	DMC4870900*C155****
560	76	175	45	6	3.4	10.1	68	1.8	4.2	32	1.00	DMC5670900*C175****
570	76	175	45	8	4.6	13.8	68	1.8	4.2	32	1.00	DMC5770900*C175****
200	88	100	40	12	2.4	7.2	50	1.0	0.8	32	0.75	DMC2070900*D100****
300	86	105	40	10	3	12	50	1.7	3.5	32	0.80	DMC3070900*D105****
340	88	110	40	20	6.8	20.4	80	0.75	3.1	32	0.95	DMC3470900*D110****

规格表 Specification table

续上表

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
<b>UN 900V.DC</b>												
380	86	95	45	6	2.3	6.8	65	1.6	5.1	32	0.72	DMC3870900*D095****
520	86	120	50	4	2.1	6.2	60	2.1	4.7	32	1.00	DMC5270900*D120****
580	86	136	55	4	2.3	7.0	59	2.2	4.6	32	1.10	DMC5870900*D136****
630	86	140	55	4	2.5	7.6	56	2.4	4.6	32	1.15	DMC6370900*D140****
650	86	155	40	6	3.9	11.7	70	1.5	4.4	32	1.25	DMC6570900*D155****
750	86	175	45	6	4.5	13.5	70	1.6	4.3	32	1.30	DMC7570900*D175****
840	86	180	50	5	4.2	12.6	80	1.6	4.5	32	1.30	DMC8470900*D180****
1100	86	252	55	6	6.6	19.8	70	1.3	3.0	32	1.80	DMC1180900*D252****
800	96	136	50	5	4	12	70	1.8	4.4	45	1.35	DMC8070900*E136****
720	116	95	45	6	4.3	13.0	80	0.9	5.4	50	1.20	DMC7270900*F095****
980	116	120	50	4	3.9	11.8	76	1.2	5.0	50	1.50	DMC9870900*F120****
1000	116	215	45	10	10	30	120	0.4	1.4	50	2.50	DMC1080900*F215****
1200	116	140	55	4	4.8	14.4	71	1.4	4.9	50	1.75	DMC1280900*F140****
1200	116	158	40	6	7.2	21.6	100	0.9	3.6	50	2.00	DMC1380900*F175****
1500	116	175	45	6	9.0	27.0						

# DC-Link 金属化薄膜电容器 DMJ-MC series

## Metalized film capacitor

规格表 Specification table

续上表

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
<b>UN 1000V.DC</b>												
1400	116	230	50	8	11.2	33.6	100	0.9	2.7	50	2.80	DMC1481000*F230****
500	136	185	50	10	5	15	150	1.2	1.2	50	3.00	DMC5071000*G185****
1000	136	230	60	4	4	12	150	1.2	1.2	50	4.20	DMC1081000*G230****
2500	136	295	60	6	15.0	45.0	100	0.9	20	50	4.90	DMC2581000*G295****
<b>UN 1100V.DC</b>												
170	76	95	40	13	2.0	6.1	51	2.3	4.1	32	0.60	DMC1771100*C095****
180	76	95	45	8	1.4	4.3	52	2.3	5.6	32	0.60	DMC1871100*C095****
250	76	120	50	6	1.5	4.5	50	3.0	4.7	32	0.70	DMC2571100*C120****
300	76	140	55	5	1.5	4.5	47	3.5	4.6	32	0.75	DMC3071100*C140****
310	76	155	40	9	2.8	8.4	65	1.9	4.3	32	0.90	DMC3171100*C155****
360	76	175	45	8	2.9	8.6	65	2.0	4.2	32	1.00	DMC3671100*C175****
240	86	95	45	8	1.9	5.8	60	1.9	5.1	32	0.72	DMC2471100*D095****
330	86	120	50	6	2.0	5.9	56	2.4	4.7	32	1.00	DMC3371100*D120****
420	86	136	55	5	2.1	6.3	58	2.3	4.6	32	1.10	DMC4271100*D136****
420	88	136	40	12	5.0	15	75	1.5	1.8	32	1.15	DMC4271100*D136****
420	86	155	40	9	3.8	11.3	63	1.7	4.4	32	1.25	DMC4271100*D155****
480	86	173	40	11	5.0	15	80	1.0	2.3	32	1.30	DMC4871100*D173****
500	86	174	45	10	5.0	15	80	1.1	2.1	32	1.30	DMC5071100*D174****
750	86	230	55	8	6.0	18.0	70	1.3	3.0	32	1.70	DMC7571100*D230****
750	86	252	55	8	6.0	18.0	70	1.3	3.0	32	1.80	DMC7571100*D252****
840	86	255	60	7	6.0	18.0	75	2.0	1.4	32	1.85	DMC8471100*D255****
600	96	155	50	5	3.0	9.0	70	1.6	1.9	45	1.50	DMC6071100*E155****
660	96	155	50	5	3.0	9.0	70	1.6	1.9	45	1.50	DMC6671100*E155****
450	116	95	45	8	3.6	10.8	80	1.0	5.4	50	1.20	DMC4571100*F095****
620	116	120	50	6	3.7	11.2	70	1.4	5.0	50	1.50	DMC6271100*F120****
750	116	140	55	5	3.8	11.3	66	1.6	4.9	50	1.75	DMC7571100*F140****
780	116	158	40	9	7.0	21.1	100	0.9	3.6	50	2.00	DMC7871100*F158****
920	116	175	45	8	7.4	22.1	96	1.1	3.4	50	2.20	DMC9271100*F175****
1000	116	180	60	4	4	12	85	1.1	1.9	50	2.25	DMC1081100*F180****
1200	116	180	60	4	4.8	14.4	75	1.3	2.1	50	2.25	DMC1281100*F180****
1200	116	230	50	9	10.8	32.4	100	0.9	2.7	50	2.80	DMC1281100*F230****
1500	116	275	50	5	7.5	22.5	100	0.8	1.9	50	3.40	DMC1581100*F275****
1600	116	275	50	5	8	24	100	0.8	1.9	50	3.40	DMC1681100*F275****
2000	116	335	70	6	12	36	100	1.3	1.2	50	4.00	DMC2081100*F335****
1700	136	230	60	6	10.2	30.6	100	1.1	1.4	50	3.80	DMC1781100*G230****
2200	136	295	60	7	15.4	46.2	100	0.9	2.0	50	4.90	DMC2281100*G295****
3060	136	335	70	5	15.3	45.9	100	0.9	2.0	50	6.00	DMC3081100*G335****

规格表 Specification table

续上表

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
<b>UN 1200V.DC</b>												
140	76	95	45	10	1.4	4.2	48	2.7	5.6	32	0.60	DMC1471200*C095****
200	76	120	50	7	1.4	4.2	47	3.4	4.7	32	0.70	DMC2071200*C120****
240	76	140	55	6	1.4	4.3	44	3.9	4.6	32	0.75	DMC2471200*C140****
240	76	155	40	11	2.6	7.9	64	2.0	4.3	32	0.90	DMC2471200*C155****
280	76	175	45	10	2.8	8.4	63	2.1	4.2	32	1.00	DMC2871200*C175****
190	86	95	45	10	1.9	5.7	57	2.1	5.1	32	0.72	DMC1971200*D095****
260	86	120	50	7	1.8	5.5	53	2.7	4.7	32	1.00	DMC2671200*D120****
320	86	136	55	6	1.9	5.8	55	2.5	4.6	32	1.10	DMC3271200*D136****
330	86	140	55	6	2.0	5.9	50	3.0	4.6	32	1.15	DMC3371200*D140****
330	86	155	40	11	3.6	10.9	66	1.8	4.4	32	1.25	DMC3371200*D155****
380	86	175	45	10	3.8	11.4	65	1.9	4.3	32	1.30	DMC3871200*D175****
420	86	136	55	5	2.1	6.3	58	2.3	4.6	32	1.10	DMC4271200*D136****
420	88	136	40	12	5.0	15	75	1.5	1.8	32	1.15	DMC4271200*D136****
420	86	155	40	12	5	15	70	1.5	2.0	32	1.25	DMC4271200*D155****
580	86	252	55	10	5.8	17.4	70	1.5	3.0	32	1.80	DMC5871200*D252****
600	86	225	50	10	6	18	70	1.5	3.			





# DC-Link 金属化薄膜电容器 DMJ-MC series

## Metalized film capacitor

规格表 Specification table

C <sub>N</sub> (μF)	φD (mm)	H (mm)	ESL (nH)	dv/dt (V/μS)	I <sub>p</sub> (kA)	I <sub>s</sub> (kA)	I <sub>rms</sub> @50°C (A)	ESR @1kHz (mΩ)	R <sub>th</sub> (K/W)	P (mm)	Weight (kg)	Part number
Un 3600V.DC												
44	116	120	60	74	3.3	9.8	57	2.3	3.7	50	1.65	DMC4463600*F120*****
54	116	140	65	59	3.2	9.6	55	2.7	3.4	50	1.90	DMC5463600*F140*****
88	116	225	60	74	6.5	19.5	87	1.4	2.5	50	3.00	DMC8863600*F225*****
110	116	265	60	60	6.6	19.8	85	1.6	2.3	50	3.45	DMC1173600*F265*****
61	136	120	60	73	4.5	13.4	63	2.0	3.0	50	2.25	DMC6163600*G120*****
75	136	140	65	60	4.5	13.5	61	2.3	2.8	50	2.55	DMC7563600*G140*****
120	136	225	60	74	8.9	26.6	92	1.3	2.2	50	4.05	DMC1273600*G225*****
150	136	265	60	60	9.0	27.0	92	1.5	2.0	50	4.70	DMC1573600*G265*****
Un 4000V.DC												
37	116	120	60	85	3.1	9.4	55	2.4	3.7	50	1.65	DMC3764000*F120*****
46	116	140	65	69	3.2	9.5	54	2.8	3.4	50	1.90	DMC4664000*F140*****
74	116	225	60	85	6.3	18.9	85	1.5	2.5	50	3.00	DMC7464000*F225*****
92	116	265	60	69	6.3	19.0	83	1.7	2.3	50	3.45	DMC9264000*F265*****
52	136	120	60	85	4.4	13.3	62	2.1	3.0	50	2.25	DMC5264000*G120*****
64	136	140	65	69	4.4	13.2	60	2.3	2.8	50	2.55	DMC6464000*G140*****
100	136	225	60	85	8.5	25.5	90	1.3	2.2	50	4.05	DMC1074000*G225*****
130	136	265	60	69	9.0	26.9	91	1.5	2.0	50	4.65	DMC1374000*G265*****

续上表

# DC-Link 金属化薄膜电容器 DMJ- PC series

## Metalized film capacitor



### 应用

- 广泛应用于DC-link电路中，作滤波储能用。
- 能替代电解电容，性能更优，寿命更长。
- 光伏逆变器，风电变流器；各种变频器及逆变电源；纯电动及混合动力汽车；SVG，SVC等各类电能质量管理设备。

### Application

- Widely used in DC-link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter; wind power converter; All kinds of frequency converter and inverter power supply; Pure electric and hybrid cars; SVG, SVC devices and other kinds of power quality management.

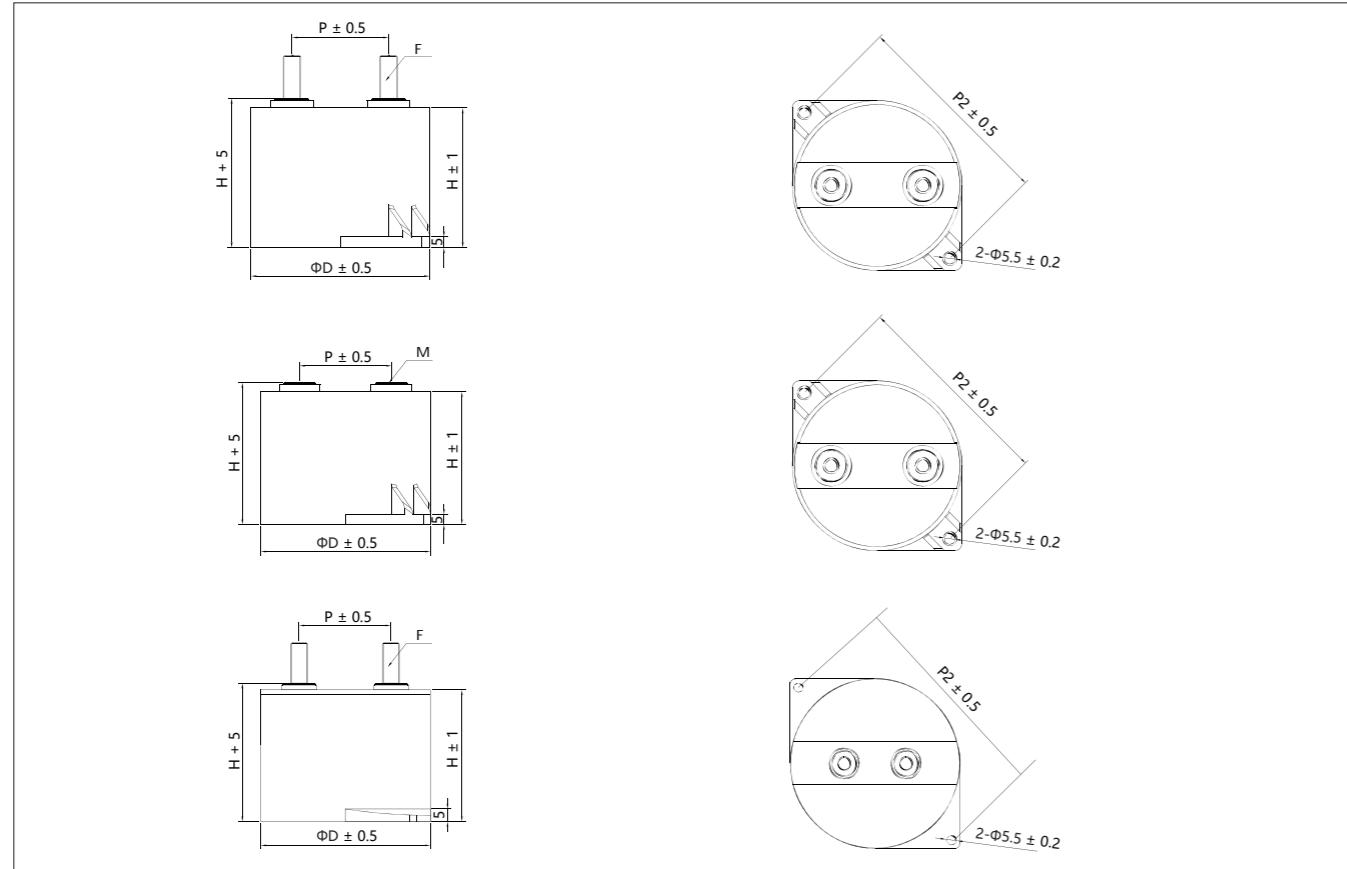
### 标准尺寸 Standard Dimension

Φd (mm)	H (mm)	P (mm)	P2	F	M
84.5	40	45	101	M5×7	M8×20
84.5	51	45	101	M5×7	M8×20
84.5	65	45	101	M5×7	M8×20
84.5	76	45	101	M5×7	M8×20
115	64	45	133	M5×10	M8×20

# DC-Link 金属化薄膜电容器 DMJ-PC series

## Metalized film capacitor

外形图 The contour map



性能参数 Technical data

工作温度范围/Operating temperature range	Max.Operating temperature.,Topmax: +105°C Upper category temperature: +85°C Lower category temperature: -40°C	
容量范围 ( $C_N$ )/Capacitance range	50μF~380μF	
额定电压 ( $U_N$ )/Rated voltage	450V.DC~1500V.DC	
容量偏差/Cap.tol	$\pm 5\%$ (J) ; $\pm 10\%$ (K)	
耐电压/Withstand voltage	Vt-t	1.5U <sub>N</sub> DC/60s
	Vt-c	1000+2×U <sub>N</sub> / $\sqrt{2}$ V.AC60s (min3000 V.AC)
损耗角正切/Dissipation factor	$\tan \delta \leq 0.002$ f=1000Hz 介质损耗 $\tan \delta_0 \leq 0.0002$	
绝缘电阻/Insulation resistance	$R_s \times C \geq 10000s$ (at 20°C 100V.DC 60s)	



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性能参数 Technical data

过电压/Over voltage	1.1U <sub>N</sub> (30% of on-load-dur.) 1.15U <sub>N</sub> (30min/day) 1.2U <sub>N</sub> (5min/day) 1.3U <sub>N</sub> (1min/day) 1.5U <sub>N</sub> (100ms every time 1000times during the lifetime)
耐脉冲电流冲击/Withstand strike current	见规格表/For details, see the specification sheet
有效电流/I <sub>rms</sub>	见规格表/For details, see the specification sheet
阻燃性/Flame retardation	UL94V-0
最高使用海拔高度/Maximum altitude	3500m Derating should be considered when the altitude is between 3500m -5500m. (For each increase of 1000m, voltage and current will be reduced by 10%)
预期寿命/Life expectancy	100000h (U <sub>N</sub> ; θ <sub>hotspot</sub> ≤70°C)
引用标准/Reference standard	IEC61071; IEC61881; IEC60068

续上表

产品编码说明 Part number system

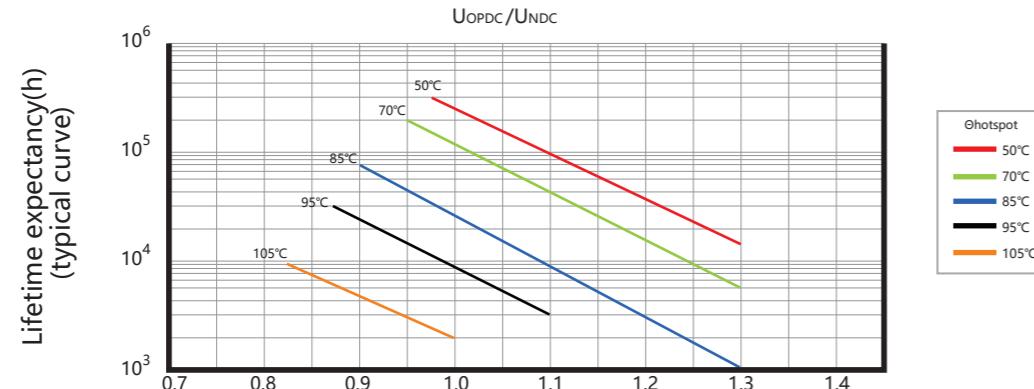
Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Size	Lead	Internal feature code					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
D	P	C	2	2	7	0	6	0	0	K	1	M	0	1				
1	~	3	位: 型号代码/Model															
4	~	6	位: 标称容量/Nominal Capacity															
			e.g. 227=22×10 <sup>7</sup> pF=220μF															
			7	~	10	位: 额定电压 (直流) / U <sub>N</sub> (DC)												
						e.g. 0600=600VDC												
						11	位: 容量偏差等级/Capacitance Tolerance											
							$\pm 5\%$ (J) ; $\pm 10\%$ (K)											
						12	位: 尺寸代码/Size											
							1:84.5×40 (p=45)											
							2:84.5×51 (p=45)											
							3:84.5×65 (p=45)											
							4:84.5×76 (p=45)											
							5:115×64 (p=60)											
						13	位: 引出形式/Lead											
							M:8×20螺栓引出/Screw bolt											
							F:5×7螺母引出/Screw nut											
			14	~	15	位:	内部特征码/Internal feature code											

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# DC-Link 金属化薄膜电容器 DMJ-PC series Metalized film capacitor

预期寿命曲线图 Life expectancy in the graph



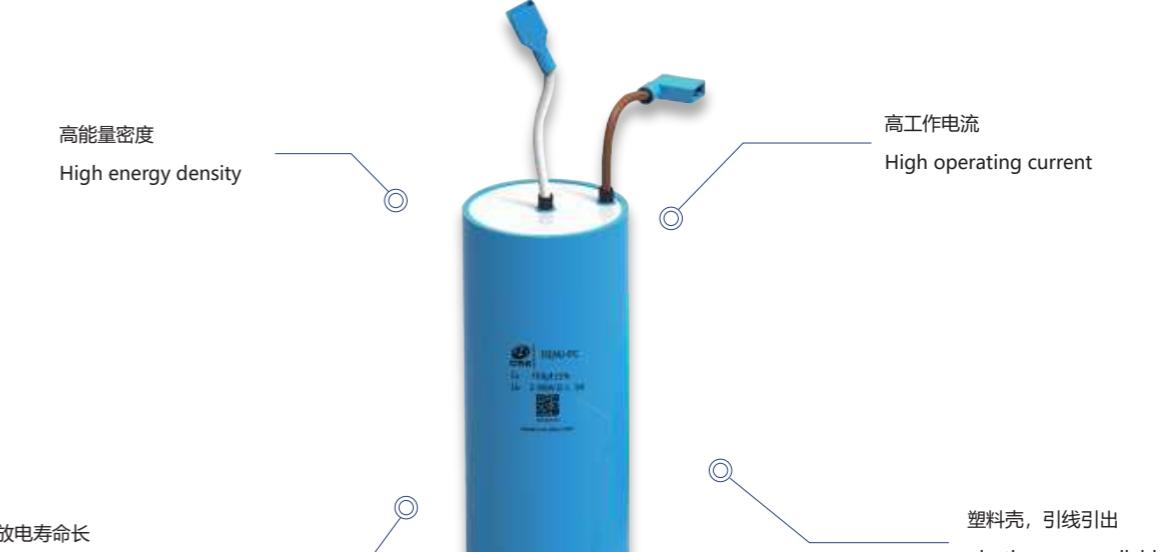
规格表 Specification table

U <sub>N</sub> (VDC)	C <sub>N</sub> (μF)	ESR 10kHz (mΩ)	R <sub>th</sub> (K/W)	I <sub>rms</sub> @55°C (A)	dv/dt (V/us)	I <sub>p</sub> (A)	尺寸/Dimension		L <sub>s</sub> (nH)	Weight (kg)	Part number
							ΦD (mm)	H (mm)			
450	180	0.7	6	85	12	2160	84.5	40	25	0.35	DPC1870450*1***
	280	0.8	5	85	10	2800	84.5	51	32	0.4	DPC2870450*2***
	330	0.7	4.8	95	9	2970	84.5	65	40	0.5	DPC3370450*3***
	380	1	4.8	80	8	3040	84.5	65	40	0.5	DPC3870450*3***
	700	0.8	3.7	95	5	3500	115	64	40	0.9	DPC7070450*5***
600	110	0.8	6	82	20	2200	84.5	40	25	0.34	DPC1170600*1***
	180	0.9	5	85	13	2340	84.5	51	32	0.4	DPC1870600*2***
	220	0.7	4.8	95	11	2420	84.5	65	40	0.5	DPC2270600*3***
	280	1	4.8	80	9	2520	84.5	65	40	0.5	DPC2870600*3***
	470	0.9	3.7	95	8	3760	115	64	40	0.9	DPC4770600*5***
800	75	1	6	72	25	1875	84.5	40	25	0.35	DPC7560800*1***
	120	0.9	5	82	19	2280	84.5	51	32	0.4	DPC1270800*2***
	150	0.9	5	82	16	2400	84.5	51	32	0.4	DPC1570800*2***
	140	0.8	4.8	90	18	2520	84.5	65	40	0.5	DPC1470800*3***
	140	1.1	4.8	75	18	2520	84.5	65	40	0.5	DPC1470800*3***
900	220	1.1	4.8	75	11	2420	84.5	65	40	0.5	DPC2270800*3***
	320	0.9	3.7	90	12	3840	115	64	40	0.9	DPC3270800*5***
	100	0.9	5	82	19	2280	84.5	51	32	0.4	DPC1070900*2***
	150	0.9	5	82	16	2400	84.5	51	32	0.4	DPC1570900*2***
	140	0.8	4.8	90	18	2520	84.5	65	40	0.5	DPC1470900*3***
1100	140	1.1	4.8	75	18	2520	84.5	65	40	0.5	DPC1470900*3***
	60	1.5	6	58	30	1800	84.5	40	25	0.35	DPC6061100*1***
	90	1.5	5	64	25	2250	84.5	51	32	0.4	DPC9061100*2***
	120	1	4.8	78	20	2400	84.5	65	40	0.5	DPC1271100*3***
	140	1.5	4.8	65	18	2520	84.5	65	40	0.5	DPC1471100*3***
1300	150	1.5	4.6	65	18	2700	84.5	76	45	0.55	DPC1571100*4***
	190	1.7	4.6	61	16	3040	84.5	76	45	0.55	DPC1971100*4***
	240	1.2	3.7	82	14	3360	115	64	40	0.9	DPC2471100*5***
	70	1.4	5.3	63	26	1820	84.5	51	32	0.4	DPC7061300*2***
	100	1.8	5.0	57	19	1900	84.5	65	40	0.5	DPC1071300*3***
1400	130	1.9	4.6	58	16	2080	84.5	76	45	0.55	DPC1371300*4***
	56	1.5	5.3	61	28	1568	84.5	51	32	0.4	DPC5661400*2***
	86	1.8	5.0	57	20	1720	84.5	65	40	0.5	DPC8661400*3***
	110	1.9	4.6	58	16	1760	84.5	76	45	0.55	DPC1171400*4***
	50	1.6	5.3	59	30	1500	84.5	51	32	0.4	DPC5061500*2***
1500	76	1.9	5.0	56	22	1672	84.5	65	32	0.5	DPC7661500*3***
	95	2.1	4.6	55	18	2710	84.5	76	40	0.55	DPC9561500*4***



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# 储能脉冲薄膜电容器 DEMJ-PC series Energy storage/Pulse film capacitor



性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature.,Top, max : +105°C Upper category temperature: + 85°C Lower category temperature : - 40°C
容量范围 / Capacitance range	32μF~200μF
额定电压 / Rated voltage	1500V.DC - 5000V.DC
存储能量 / energy	400J~500J
容量偏差 / Cap.tol	± 5%(J); ± 10%(K)
耐脉冲电流冲击 / Withstand strike current	5~10kA
耐电压 / Withstand voltage	1.1UN (50ms every time, 1000 times during the whole life)
绝缘电阻/Insulation resistance	Rs × C ≥ 10000s (at 20°C 5000V.DC)
寿命预期 / life time expectancy	10000 pulse @ 55°C, 95%RH UN
失效率 / Failure rate	100fit
阻燃性/ Flame retardation	UL94V-0
引用标准 / Reference standard	JB/T8168



# DC-Link 金属化薄膜电容器 DMJ-PS series

## Metalized film capacitor



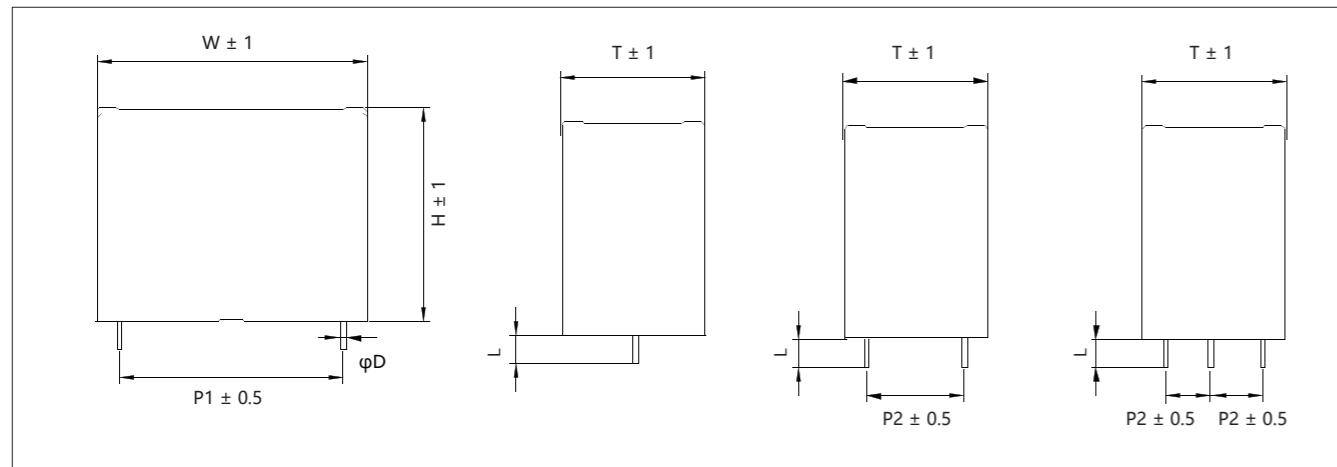
### 应用

- 广泛应用于DC - Link电路中，作滤波储能用。
- 能替代电解电容，性能更优，寿命更长。
- 光伏逆变器，风电变流器；各种变频器及逆变电源；纯电动汽车及混合动力汽车；充电桩，UPS等。

### Application

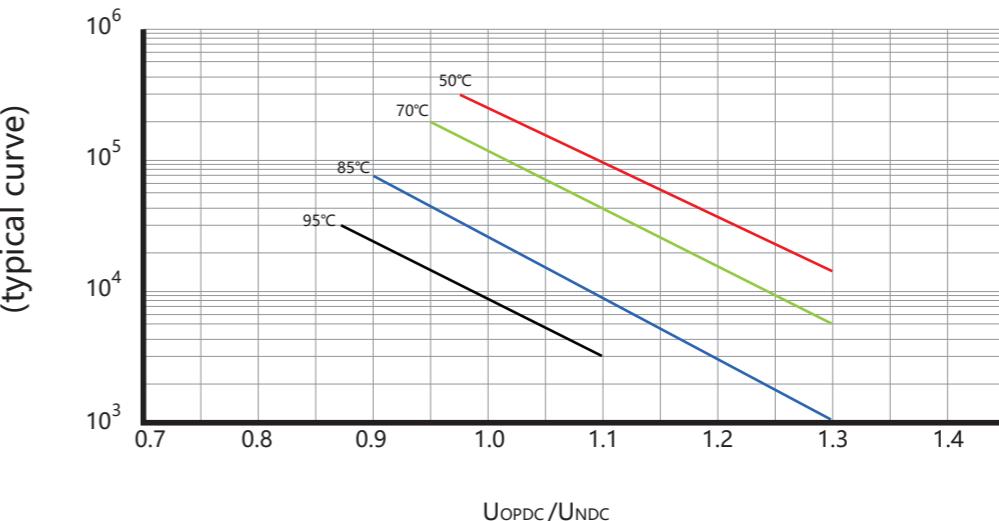
- Widely used in DC - Link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter, wind power converter;All kinds of frequency converter and inverter power supply;Pure electric and hybrid cars;charging pile, UPS, etc.

### 外形图 The contour map



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预期寿命曲线图 Life expectancy in the graph



① hotspot  
— 50°C  
— 70°C  
— 85°C  
— 95°C

### 性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature.,Top,max : + 105°C Upper category temperature : +85°C Lower category temperature : -40°C
容量范围 (C <sub>N</sub> ) / Capacitance range	1μF - 200μF
额定电压 (U <sub>N</sub> ) / Rated voltage	450V.DC - 1800V.DC
容量偏差 / Cap.tol	±5% (J) ; ±10% (K)
耐电压 / Withstand voltage	1.5U <sub>N</sub> DC / 60s
过电压/Over voltage	1.1U <sub>N</sub> ( 30% of on - load - dur. ) 1.15U <sub>N</sub> ( 30min / day ) 1.2U <sub>N</sub> ( 5min / day ) 1.3U <sub>N</sub> ( 1min / day ) 1.5U <sub>N</sub> ( 100ms every time,1000 times during the lifetime )
损耗角正切 / Dissipation factor	tgδ≤ 0.0015 f = 100Hz
绝缘电阻 / Insulation resistance	R <sub>s</sub> ×C > 10000s ( at 20°C 100V.DC )
耐脉冲电流冲击 / Withstand strike current	见规格表/See the specification sheet
有效电流/Irms	见规格表/See the specification sheet
阻燃性 / Flame retardation	UL94V - 0
引用标准 / Reference standard	IEC61071

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# DC-Link 金属化薄膜电容器 DMJ-PS series

## Metalized film capacitor

### 产品编码说明 Part number system

Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Number of leads	P1	P2	Length of leads	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
D	P	S	7	5	6	0	7	0	0	J	4	2	2	1	0	1
1	~	3	位:	型号代码/Model												
4	~	6	位:	标称容量/Nominal Capacity												

e.g. 756= 75×10<sup>6</sup>pF= 75μF

7	~	10	位:	额定电压(直流) / U <sub>N</sub> (DC)												
				e.g. 0700= 700VDC												
11	位:	容量偏差等级/Capacitance Tolerance														
				±5% (J); ±10% (K)												
12	位:	引出数量/Number of leads														
				2: 2 pins												
				4: 4 pins												
				6: 6 pins												
13	位:	脚距P1/Distance between mounting holes P1														
				1: P1= 37.5mm												
				2: P1= 52.5mm												
				3: others												
14	位:	脚距P2/Distance between mounting holes P2														
				0: no												
				1: P2= 10.2mm												
				2: P2= 20.3mm												
				3: others												



### 产品编码说明 Part number system

续上表

15	位:	引出长度L/Length of leads			
		1:L=4mm			
			2:L=15mm		
16	~	17	位:	内部特征码/Internal feature code	

### 规格表 Specification table

C <sub>N</sub> (μF)	Number of wiers	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz85°C (A)	Part number
						P1	P2					
U <sub>N</sub> 450V.DC (85°C) 550V.DC(70°C) 300V.DC(105°C)												
4	2	0.8	32	11	20	27.5	----	20.5	75	300	4	DPS4050450*230***
5	2	0.8	32	11	20	27.5	----	21.9	75	375	5	DPS5050450*230***
7	2	0.8	32	15	24	27.5	----	11.5	75	525	6.5	DPS7050450*230***
10	2	0.8	32	15	24	27.5	----	7.5	75	750	6.5	DPS1060450*230***
12	2	1	32	21	31	27.5	----	7	75	900	10	DPS1260450*230***
20	2	1.2	42.5	24.5	27.5	37.5	----	7	40	800	11	DPS2060450*210***
22	2	0.8	32	22	37	27.5	----	5.9	75	1650	10	DPS2260450*230***
30	4	1.2	42	24	44	37.5	20.3	6.5	40	1200	15	DPS3060450*412***
45	4	1.2	42.5	29	37	37.5	20.3	6	40	1800	17	DPS4560450*412***
50	4	1.2	42.5	30	45	37.5	20.3	4	40	2000	16	DPS5060450*412***
60	4	1.2	42.5	30	45	37.5	20.3	4.5	40	2400	18.5	DPS6060450*412***
60	4	1.2	42.5	33	45	37.5	20.3	4.5	40	2400	18.5	DPS6060450*412***
75	4	1.2	42.5	35	50	37.5	20.3	3	20	1500	19	DPS7560450*412***
75	4	1.2	57.5	30	45	52.5	20.3	3.2	20	1500	18	DPS7560450*422***
80	4	1.2	57.5	30	45	52.5	20.3	5	20	1600	16.5	DPS8060450*422***
100	4	1.2	42.5	40	55	37.5	20.3	2.8	20	2000	20	DPS1070450*412***
100	4	1.2	57.5	35	50	52.5	20.3	3	20	2000	22	DPS1070450*422***
110	4	1.2	57.5	35	50	52.5	20.3	3	20	2200	23	DPS1170450*422***
120	4	1.2	57.5	38	54	52.5	20.3	2.8	20	2400	25	DPS1270450*422***
140	4	1.2	57.5	35	65	52.5	20.3	2.5	20	2800	26.7	DPS1470450*422***
140	4	1.2	57.5	45	65	52.5	20.3	2.5	20	2800	28	DPS1470450*422***
150	4	1.2	57.5	42.5	56	52.5	20.3	2.5	20	3000	28	DPS1570450*422***
150	4	1.2	57.5	45	55	52.5	20.3	2.5	20	3000	28	DPS1570450*422***
200	4	1.2	57.5	45	65	52.5	20.3	2.3	20	4000	28	DPS2070450*422***
U <sub>N</sub> 600V.DC (85°C) 700V.DC(70°C) 450V.DC(105°C)												
12	2	0.8	32	18	33	27.5	----	10.8	75	900	12	DPS1260600*230***
30	4	1	42	24	44	37.5	12.7	6.5	30	900	18.5	DPS3060600*413***

# DC-Link 金属化薄膜电容器 DMJ-PS series

## Metalized film capacitor

规格表 Specification table

C <sub>N</sub> (μF)	Number of wiers	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz85°C (A)	Part number
						P1	P2					
<b>U<sub>N</sub> 600V.DC (85°C) 700V.DC(70°C) 450V.DC(105°C)</b>												
50	4	1.2	42.5	35	50	37.5	20.3	4.2	30	1500	28.7	DPS5060600*412***
110	4	1.2	57.5	35	50	52.5	20.3	3	20	2200	23	DPS1170600*422***
110	4	1.2	57.5	45	55	52.5	20.3	3	20	2200	27	DPS1170600*422***
140	4	1.2	57.5	45	65	52.5	20.3	3	15	2800	35	DPS1470600*422***
<b>U<sub>N</sub> 700V.DC (85°C) 800V.DC(70°C) 500V.DC(105°C)</b>												
2	2	0.8	32	9	18	27.5	----	47.8	75	150	2.8	DPS2050700*230***
3	2	0.8	32	11	20	27.5	----	23	75	225	4	DPS3050700*230***
4	2	0.8	32	11	20	27.5	----	23.9	75	300	4.1	DPS4050700*230***
5	2	0.8	32	15	24	27.5	----	14	75	375	6	DPS5050700*230***
6	2	0.8	32	15	24	27.5	----	18.6	75	450	7.1	DPS6050700*230***
7	2	0.8	32	15	24	27.5	----	15.9	75	525	8.3	DPS7050700*230***
8	2	1	32	18	28	27.5	----	8.5	75	600	8.5	DPS8050700*230***
9	2	0.8	32	15	30	27.5	----	12.4	75	675	10.7	DPS9050700*230***
10	2	1	32	21	31	27.5	----	7	75	750	10	DPS1060700*230***
10	2	1.2	42.5	24.5	27.5	37.5	----	10	40	400	10	DPS1060700*210***
12	2	0.8	32	18	33	27.5	----	10.8	75	900	12	DPS1260700*230***
12	2	1.2	32	22	37	27.5	----	9	75	900	11.5	DPS1260700*230***
12	2	1	41	16	32	37.5	----	16.3	40	480	7.4	DPS1260700*210***
15	2	0.8	32	22	37	27.5	----	9	75	1125	12	DPS1560700*230***
15	4	0.8	32	22	37	27.5	10.2	7.4	75	1125	16.5	DPS1560700*431***
18	2	0.8	32	22	37	27.5	----	8	75	1350	12	DPS1860700*230***
18	4	0.8	32	22	37	27.5	10.2	6.2	75	1350	17	DPS1860700*431***
20	4	1	42	24	44	37.5	10.2	7.5	40	800	12	DPS2060700*411***
20	4	1.2	42	24	44	37.5	20.3	7.5	40	800	12	DPS2060700*412***
25	4	1.2	42.5	29	37	37.5	20.3	6	40	1000	12	DPS2560700*412***
40	4	1.2	42.5	33	45	37.5	20.3	5.5	40	1600	13	DPS4060700*412***
40	4	1.2	57.5	30	45	52.5	20.3	6	20	800	15	DPS4060700*422***
45	4	1.2	42.5	35	50	37.5	20.3	5	40	1800	15	DPS4560700*412***
50	4	1.2	57.5	30	45	52.5	20.3	5.5	20	1000	18	DPS5060700*422***
55	4	1.2	42.5	40	55	37.5	20.3	4.5	40	2200	18	DPS5560700*412***
60	4	1.2	57.5	35	50	52.5	20.3	5	20	1200	20	DPS6060700*422***
75	4	1.2	57.5	35	50	52.5	20.3	4.5	20	1500	22	DPS7560700*422***
80	4	1.2	57.5	38	54	52.5	20.3	4	20	1600	22	DPS8060700*422***
90	4	1.2	57.5	42.5	56	52.5	20.3	3.5	20	1800	25	DPS9060700*422***
100	4	1.2	57.5	42.5	56	52.5	20.3	3.2	20	2000	27.5	DPS1070700*422***
100	4	1.2	57.5	45	55	52.5	20.3	3.2	20	2000	27.5	DPS1070700*422***
110	4	1.2	57.5	45	65	52.5	20.3	3	20	2200	28	DPS1170700*422***
<b>U<sub>N</sub> 800V.DC (85°C) 900V.DC(70°C) 570V.DC(105°C)</b>												
2	2	0.8	32	9	18	27.5	---	45.4	75	75	2.9	DPS2050800*230***

续上表

规格表 Specification table

C <sub>N</sub> (μF)	Number of wiers	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz85°C (A)	Part number
						P1	P2					
<b>U<sub>N</sub> 800V.DC (85°C) 900V.DC(70°C) 570V.DC(105°C)</b>												
2	2	0.8	32	11	20	27.5	---	31	75	150	3.5	DPS2050800*230***
3	2	0.8	32	11	20	27.5	---	30.3	75	225	4.4	DPS3050800*230***
3.3	2	0.8	32	16	30	27.5	---	18.8	75	247.5	7	DPS3350800*230***
4	2	0.8	32	15	24	27.5	---	15.5	75	300	5.5	DPS4050800*230***
5	2	0.8	32	15	24	27.5	---	18.2	75	375	7.3	DPS5050800*230***
6	2	1	32	18	28	27.5	---	10.5	75	450	7.5	DPS6050800*230***
7	2	0.8	32	15	32	27.5	---	13	75	525	10.2	DPS7050800*230***
8	2	1	32	21	31	27.5	---	8	75	600	9.5	DPS8050800*230***
8	2	1	41	16	32	37.5	---	22.3	40	320	5.4	DPS8050800*210***
9	2	0.8	32	18	33	27.5	---	11.1	75	675	11.8	DPS9050800*230***
9	2	1	41	16								

# DC-Link 金属化薄膜电容器 DMJ-PS series

## Metalized film capacitor

规格表 Specification table

续上表

C <sub>N</sub> (μF)	Number of wiers	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz85°C (A)	Part number
						P1	P2					
U <sub>N</sub> 800V.DC (85°C) 900V.DC(70°C) 570V.DC(105°C)												
50	4	1.2	42.5	40	55	37.5	20.3	3.8	40	2000	31.4	DPS5060800*412***
50	4	1.2	57.5	30	45	52.5	20.3	5	20	1000	16	DPS5060800*422***
50	4	1.2	57.5	35	50	52.5	20.3	4.5	20	1000	18	DPS5060800*422***
55	4	1.2	42.5	40	55	37.5	20.3	4	40	2200	18	DPS5560800*412***
55	4	1.2	57.5	35	50	52.5	20.3	6.5	20	1100	18.5	DPS5560800*422***
60	4	1.2	42.5	45	60	37.5	20.3	3.2	40	2400	35	DPS6060800*412***
60	4	1.2	57.5	38	54	52.5	20.3	4.5	20	1200	20	DPS6060800*422***
65	4	1.2	42.5	45	60	37.5	20.3	2.9	40	2600	35	DPS6560800*412***
65	4	1.2	57.5	45	55	52.5	20.3	5.5	20	1300	21.9	DPS6560800*422***
70	4	1.2	57.5	42.5	56	52.5	20.3	3.5	20	1400	22	DPS7060800*422***
75	4	1.2	57.5	45	55	52.5	20.3	3.2	20	1500	24	DPS7560800*422***
80	4	1.2	57.5	45	55	52.5	20.3	4.6	20	1600	25.9	DPS8060800*422***
85	4	1.2	57.5	45	65	52.5	20.3	3	20	1700	26	DPS8560800*422***
90	4	1.2	57.5	45	55	52.5	20.3	4.2	20	1800	28.3	DPS9060800*422***
95	4	1.2	57.5	45	65	52.5	20.3	4	20	1900	29.8	DPS9560800*422***
100	4	1.2	57.5	45	65	52.5	20.3	3.8	20	2000	31.4	DPS1070800*422***
110	4	1.2	57.5	45	65	52.5	20.3	3.5	20	2200	34.5	DPS1170800*422***
U <sub>N</sub> 900 (85°C) 1000V.DC(70°C) 600V.DC(105°C)												
1	2	0.8	32	9	18	27.5	----	86	75	75	1.5	DPS1050900*230***
2	2	0.8	32	11	20	27.5	----	43	75	150	3.1	DPS2050900*230***
3	2	0.8	32	13	22	27.5	----	28.7	75	225	4.6	DPS3050900*230***
4	2	0.8	32	15	24	27.5	----	21.5	75	300	6.1	DPS4050900*230***
5	2	0.8	32	15	30	27.5	----	17.2	75	375	7.7	DPS5050900*230***
5	2	1	41	16	32	37.5	----	33.4	40	200	3.6	DPS5050900*210***
6	2	0.8	32	18	33	27.5	----	18	75	450	6.9	DPS6050900*230***
6	2	1	41	16	32	37.5	----	27.9	40	240	4.3	DPS6050900*210***
7	2	0.8	32	18	33	27.5	----	13	75	525	10.2	DPS7050900*230***
7	2	1	41	16	32	37.5	----	23.9	40	280	5	DPS7050900*210***
8	2	0.8	32	22	37	27.5	----	11.5	75	600	11.4	DPS8050900*230***
8	4	0.8	32	22	37	27.5	10.2	10.7	75	600	12.3	DPS8050900*431***
8	2	1	41	18.5	33.5	37.5	----	20.9	40	320	5.7	DPS8050900*210***
9	2	0.8	32	22	37	27.5	----	10.4	75	675	12	DPS9050900*230***
9	4	0.8	32	22	37	27.5	12.7	9.6	75	675	13.8	DPS9050900*433***
10	2	0.8	32	22	37	27.5	----	12	75	750	12.2	DPS1060900*230***
10	4	0.8	32	22	37	27.5	12.7	8.6	75	750	15.4	DPS1060900*433***
10	4	1.0	42	20	40	37.5	10.2	16.7	40	400	7.2	DPS1060900*411***
12	4	1.0	41	22	37	37.5	10.2	13.9	40	480	8.6	DPS1260900*411***
15	4	1.0	42	24	44	37.5	12.7	11.1	40	600	10.8	DPS1560900*413***
15	4	1.2	57.5	25	45	52.2	10.2	22.3	20	300	5.4	DPS1560900*421***
18	4	1.0	42	24	44	37.5	12.7	9.3	40	720	12.9	DPS1860900*413***



规格表 Specification table

续上表

C <sub>N</sub> (μF)	Number of wiers	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz85°C (A)	Part number
						P1	P2					
U <sub>N</sub> 900 (85°C) 1000V.DC(70°C) 600V.DC(105°C)												
20	4	1.0	42	24	44	37.5	12.7	8.4	40	800	14.4	DPS2060900*413***
20	4	1.2	57.5	25	45	52.5	12.7	16.7	20	400	7.2	DPS2060900*423***
25	4	1.2	42.5	30	45	37.5	12.7	6.7	40	1000	17.9	DPS2560900*413***
25	4	1.2	57.5	25	45	52.5	12.7	13.4	20	500	9	DPS2560900*423***
30	4	1.2	42.5	35	50	37.5	20.3	5.6	40	1200	21.5	DPS3060900*412***
30	4	1.2	57.5	30	45	52.5	20.3	11.1	20	600	10.8	DPS3060900*422***
35	4	1.2	42.5	40	55	37.5	20.3	5.1	40	1400	23.4	D

# DC-Link 金属化薄膜电容器 DMJ-PS series

## Metalized film capacitor

## 规格表 Specification table

C <sub>N</sub> (μF)	Number of wiers	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μS)	I <sub>p</sub> (A)	I <sub>rms</sub> @10kHz85°C (A)	Part number
						P1	P2					
U <sub>N</sub> 1000 (85°C) 1100V.DC(70°C) 680V.DC(105°C)												
12	4	1	41	22	37	37.5	12.7	13	40	480	9.2	DPS1261000*413***
15	4	1	42	24	44	37.5	12.7	10.4	40	600	11.5	DPS1561000*413***
15	4	1.2	57.5	25	45	52.5	12.7	20.8	20	300	5.8	DPS1561000*423***
18	4	1.2	42.5	30	45	37.5	12.7	8.7	40	720	13.8	DPS1861000*413***
18	4	1.2	42.5	30	45	37.5	20.3	8.7	40	720	13.8	DPS1861000*412***
20	4	1.2	42.5	30	45	37.5	12.7	7.8	40	800	15.4	DPS2061000*413***
20	4	1.2	42.5	30	45	37.5	20.3	7.8	40	800	15.4	DPS2061000*412***
20	4	1.2	57.5	25	45	52.5	12.7	15.6	20	400	7.7	DPS2061000*423***
25	4	1.2	42.5	35	50	37.5	20.3	6.2	40	1000	19.2	DPS2561000*412***
25	4	1.2	57.5	25	45	52.5	12.7	12.5	20	500	9.6	DPS2561000*423***
30	4	1.2	42.5	40	55	37.5	20.3	5.2	40	1200	23.1	DPS3061000*412***
30	4	1.2	57.5	30	45	52.5	20.3	10.4	20	600	11.5	DPS3061000*422***
30	4	1.2	57.5	30	45	52.5	20.3	10.4	20	600	11.5	DPS3061000*422***
35	4	1.2	42.5	40	55	37.5	20.3	4.8	40	1400	25.1	DPS3561000*412***
35	4	1.2	57.5	35	50	52.5	20.3	8.9	20	700	13.5	DPS3561000*422***
40	4	1.2	42.5	45	60	37.5	20.3	4.2	40	1600	28.7	DPS4061000*412***
40	4	1.2	57.5	35	50	52.5	20.3	7.8	20	800	15.4	DPS4061000*422***
45	4	1.2	57.5	45	55	52.5	20.3	6.9	20	900	17.3	DPS4561000*422***
50	4	1.2	57.5	45	55	52.5	20.3	6.2	20	1000	19.2	DPS5061000*422***
55	4	1.2	57.5	45	55	52.5	20.3	5.7	20	1100	21.1	DPS5561000*422***
60	4	1.2	57.5	45	65	52.5	20.3	5.2	20	1200	23.1	DPS6061000*422***
65	4	1.2	57.5	45	65	52.5	20.3	4.8	20	1300	25	DPS6561000*422***
70	4	1.2	57.5	45	65	52.5	20.3	4.5	20	1400	26.9	DPS7061000*422***
U <sub>N</sub> 1100 (85°C) 1200V.DC(70°C) 750V.DC(105°C)												
1	2	0.8	32	11	21	27.5	----	45.5	95	95	3	DPS1051100*230***
2	2	0.8	32	13	25	27.5	----	23	95	190	5	DPS2051100*230***
2	2	0.8	32	15	24	27.5	----	23	95	190	4.5	DPS2051100*230***
3	2	1	32	18	28	27.5	----	15.5	95	285	6	DPS3051100*230***
4	2	1	32	21	31	27.5	----	11.5	95	380	8	DPS4051100*230***
10	2	1.2	42	24	44	37.5	----	11	40	429	11	DPS1061100*210***
12	4	1	42	24	44	37.5	10.2	8	40	600	12.5	DPS1261100*411***
15	4	1	42	24	44	37.5	12.7	8	40	600	11.5	DPS1561100*413***
15	4	1.2	42.5	29	37	37.5	20.3	8	40	600	15	DPS1561100*412***
20	4	1.2	42.5	30	45	37.5	20.3	5	40	800	18	DPS2061100*412***
20	4	1.2	42.5	33	45	37.5	20.3	5	40	800	18	DPS2061100*412***
20	4	1.2	42.5	35	50	37.5	20.3	7.2	40	800	18	DPS2061100*412***
20	4	1.2	57.5	30	45	52.5	20.3	7	25	500	15	DPS2061100*422***
25	4	1.2	57.5	35	50	52.5	20.3	6	25	625	17	DPS2561100*422***
30	4	1.2	57.5	30	45	52.5	20.3	5	25	750	18	DPS3061100*422***
30	4	1.2	57.5	35	50	52.5	20.3	5	25	750	18	DPS3061100*422***

续上表

## 规格表 Specification table

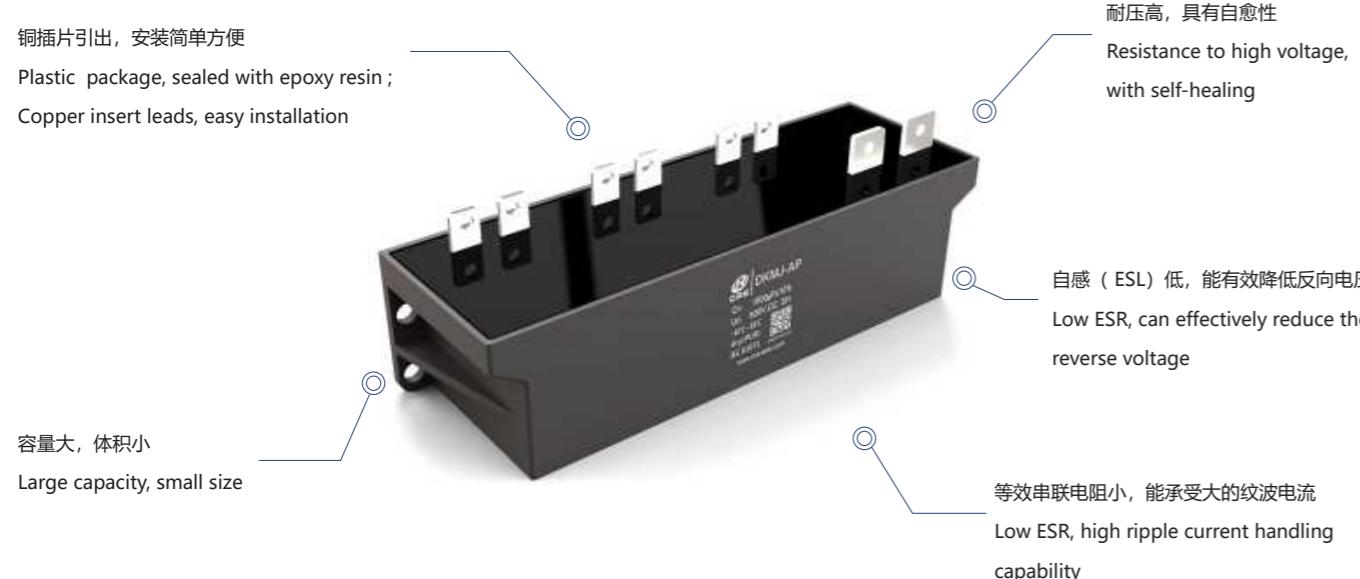
C <sub>N</sub> (μF)	Number of wiers	φD (mm)	W (mm)	T (mm)	H (mm)	Mounting hole distance (mm)		ESR (mΩ)	dv/dt (V/μS)	Ip (A)	Irms @10kHz85°C (A)	Part number
						P1	P2					
<b>U<sub>N</sub> 1100 (85°C) 1200V.DC(70°C) 750V.DC(105°C)</b>												
35	4	1.2	42.5	35	50	37.5	20.3	4.5	40	1400	19	DPS3561100*412***
40	4	1.2	57.5	35	50	52.5	20.3	5	25	1000	18	DPS4061100*422***
45	4	1.2	57.5	38	54	52.5	20.3	4.5	25	1125	18.5	DPS4561100*422***
50	4	1.2	57.5	42.5	56	52.5	20.3	3.5	25	1250	20	DPS5061100*422***
55	4	1.2	57.5	42.5	56	52.5	20.3	3.5	25	1375	21	DPS5561100*422***
60	4	1.2	57.5	45	55	52.5	20.3	3.2	25	1500	22	DPS6061100*422***
70	4	1.2	57.5	45	65	52.5	20.3	3	25	1750	24	DPS7061100*422***
<b>U<sub>N</sub> 1200V.DC (85°C) 1500V.DC(70°C) 850V.DC(105°C)</b>												
1	2	0.8	32	11	21	27.5	----	43	100	100	3	DPS1051200*230***
2	2	0.8	32	15	25	27.5	----	21.5	100	200	5	DPS2051200*230***
3	2	1	32	18	28	27.5	----	14.5	100	300	6.5	DPS3051200*230***
4	2	1	32	21	31	27.5	----	11	100	400	8	DPS4051200*230***
5	2	1	41.5	18.5	33.5	37.5	----	10	80	400	9	DPS5051200*210***
10	4	1	42	24	44	37.5	12.7	8	40	600	10.8	DPS1061200*413***
12	4	1.2	42.5	30	45	37.5	20.3	5	50	600	15	DPS1261200*412***
12	4	1.2	57.5	30	45	52.5	20.3	11	40	480	13	DPS1261200*422***
18	4	1.2	42.5	35	50	37.5	20.3	4.5	50	900	18	DPS1861200*412***
20	4	1.2	42.5	40	55	37.5	20.3	7	50	1000	16	DPS2061200*412***
20	4	1.2	57.5	35	50	52.5	20.3	8	40	800	17	DPS2061200*422***
25	4	1.2	57.5	42.5	56	52.5	20.3	7	40	1000	20	DPS2561200*422***
40	4	1.2	57.5	45	55	52.5	20.3	6	25	1000	22	DPS4061200*422***
45	4	1.2	57.5	45	65	52.5	20.3	5.5	25	1125	24	DPS4561200*422***
<b>UN 1800V.DC (85°C) 2000V.DC(70°C) 1100V.DC(105°C)</b>												
6	4	1.2	42.5	30	45	37.5	20.3	24	100	600	5	DPS6051800*412***
8	4	1.2	42.5	35	50	37.5	20.3	20	100	800	8	DPS8051800*412***
10	4	1.2	42.5	40	55	37.5	20.3	18	100	1000	10	DPS1061800*412***
8	4	1.2	57.5	30	45	52.5	20.3	12	50	400	13	DPS8051800*422***
10	4	1.2	57.5	35	50	52.5	20.3	10	50	500	17	DPS1061800*422***
15	4	1.2	57.5	42.5	56	52.5	20.3	8	50	750	20	DPS1561800*422***
18	4	1.2	57.5	45	55	52.5	20.3	7.5	50	900	21	DPS1861800*422***
20	4	1.2	57.5	45	65	52.5	20.3	7	45	900	22	DPS2061800*422***

## 续上表



# DC-Link 金属化薄膜电容器 DKMJ-AP series

## Metalized film capacitor

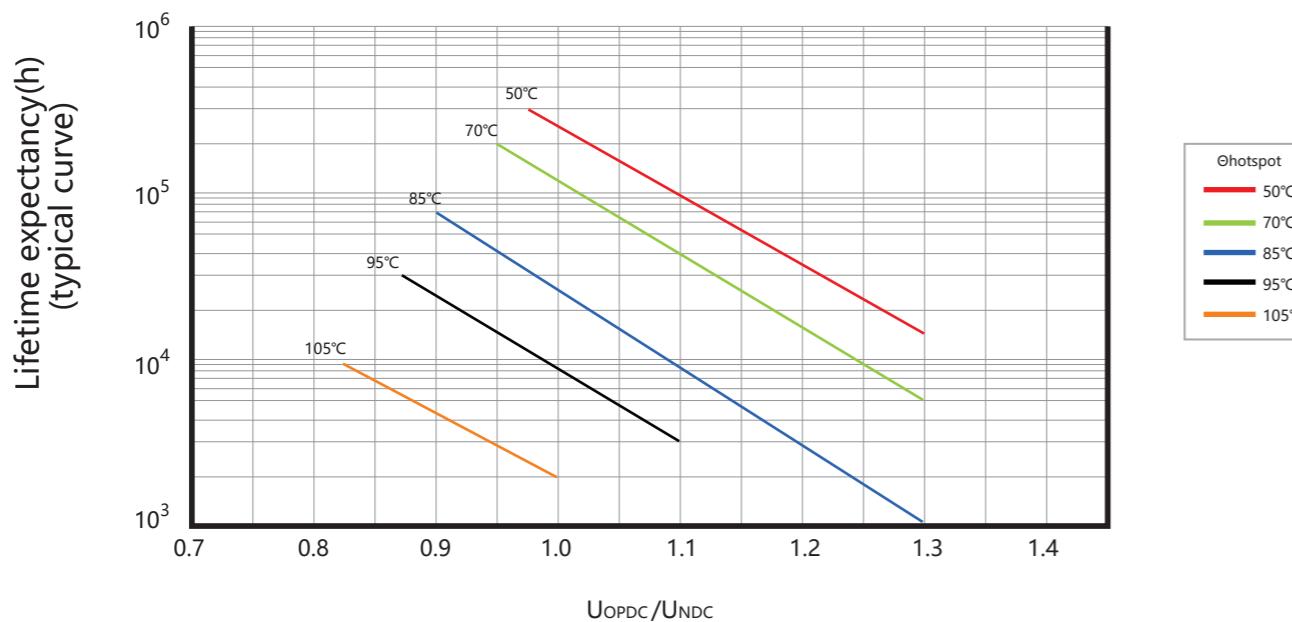


### 应用

- 广泛应用于电动车和混合动力汽车。
- Widely used in EV and HEV.

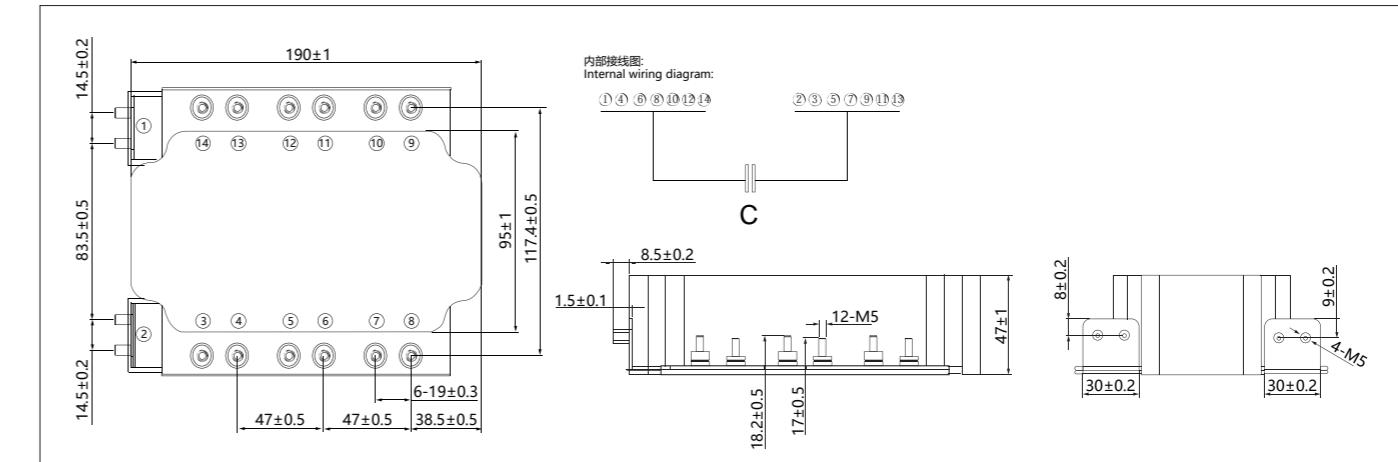
### Application

### 预期寿命曲线图 Life expectancy in the graph



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### 尺寸图 Size chart



### 性能参数 Technical data

工作温度范围 / Operating temperature range	-40°C ~ 105°C	
贮存温度范围 / Storage temperature range	-40°C ~ 105°C	
额定电压( $U_N$ ) / Rated voltage	750V.DC	
额定容量( $C_N$ ) / Rated capacitance	320μF	
容量偏差 / Cap.tol	±10% ( K )	
耐电压 / Withstand voltage	Vt - t	1.5 $U_N$ / 10s ( 20°C ± 5°C )
	Vt - c	3000V.AC / 10s ( 50Hz , 20°C±5°C )
损耗角正切 / Dissipation factor	$\operatorname{tg}\delta \leq 0.001$ f = 100Hz 介质损耗 $\operatorname{tg}\delta_0 \leq 0.0002$	
绝缘电阻/Insulation resistance	$R_s \times C \geq 10000S$ ( at20°C 100V.DC 60s )	
等效串联电阻 / ESR	$\leq 0.6m\Omega$ ( 10kHz )	
自感/Ls	$\leq 15nH$	
热阻 / Rth	0.3K/W	
额定电流/Max. current $I_{rms}$	300A ( 70°C )	
浪涌电压 / Non-recurrent surge voltage( $U_s$ )	1125V.DC	
脉冲峰值电流 / Maximum peak current( $\hat{I}$ )	4.8kA	
浪涌电流 / Maximum surge current( $I_s$ )	14.4kA	
灌封料/Filling material	干式, 环氧树脂或聚氨酯(Resin or Polyurethane, dry)	
失效率 / Failure quota	$\leq 50\text{fit}$	
预期寿命 / Life expectancy	参考预期寿命曲线/Reference life expectancy curve	
引用标准 / Reference standard	IEC 61071 ; AEC Q 200D-2010	
重量 / Weight	$\approx 2.3\text{kg}$	
尺寸 / Dimension	190mm×95mm×47mm	

产品编码：DPS2061100\*412\*\*\*

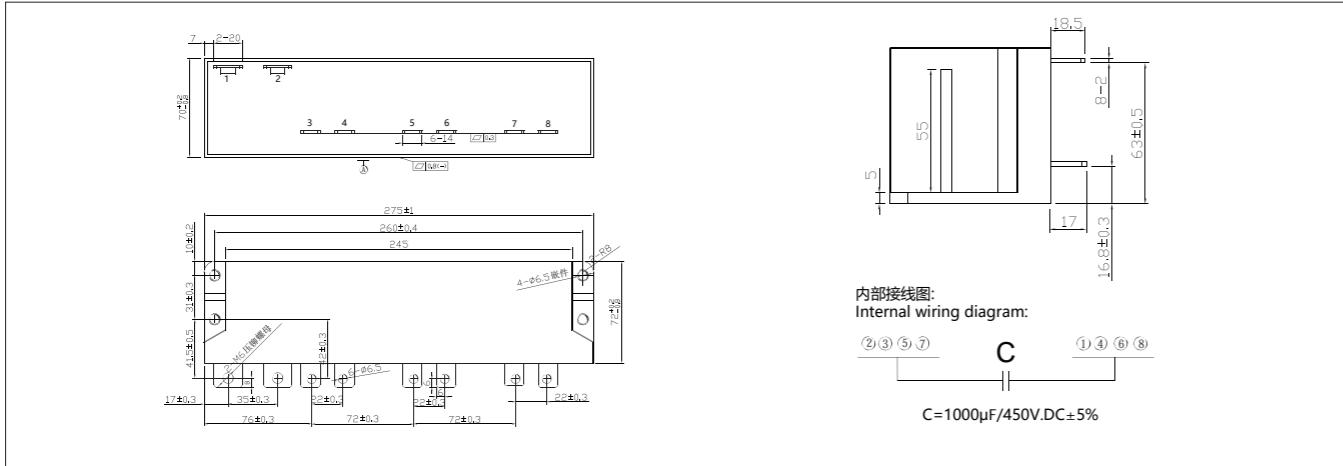
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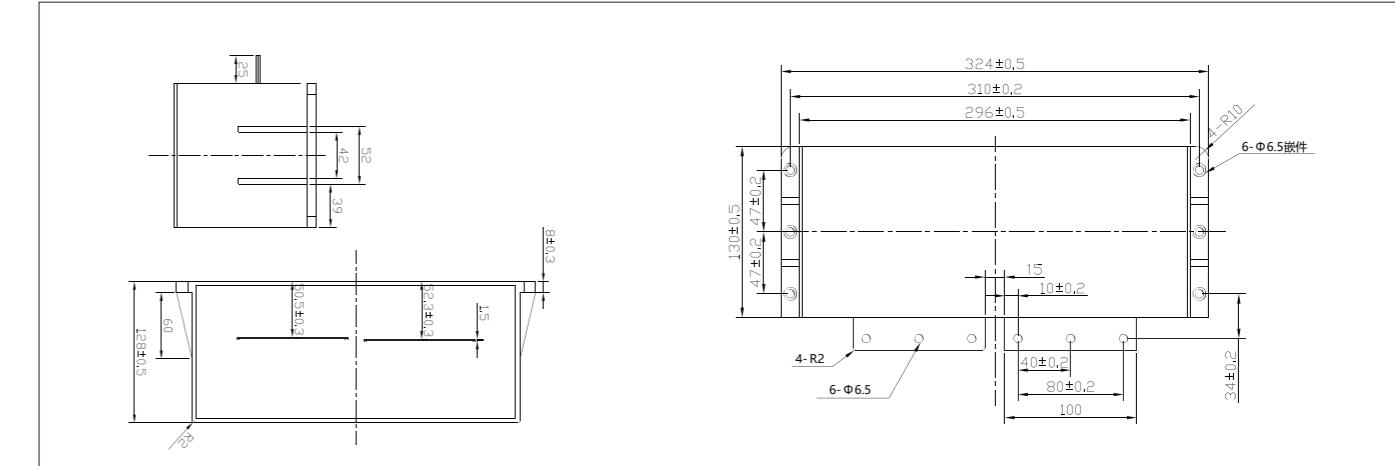
# DC-Link 金属化薄膜电容器 DKMJ-AP series

## Metalized film capacitor

尺寸图 Size chart



尺寸图 Size chart



性能参数 Technical data

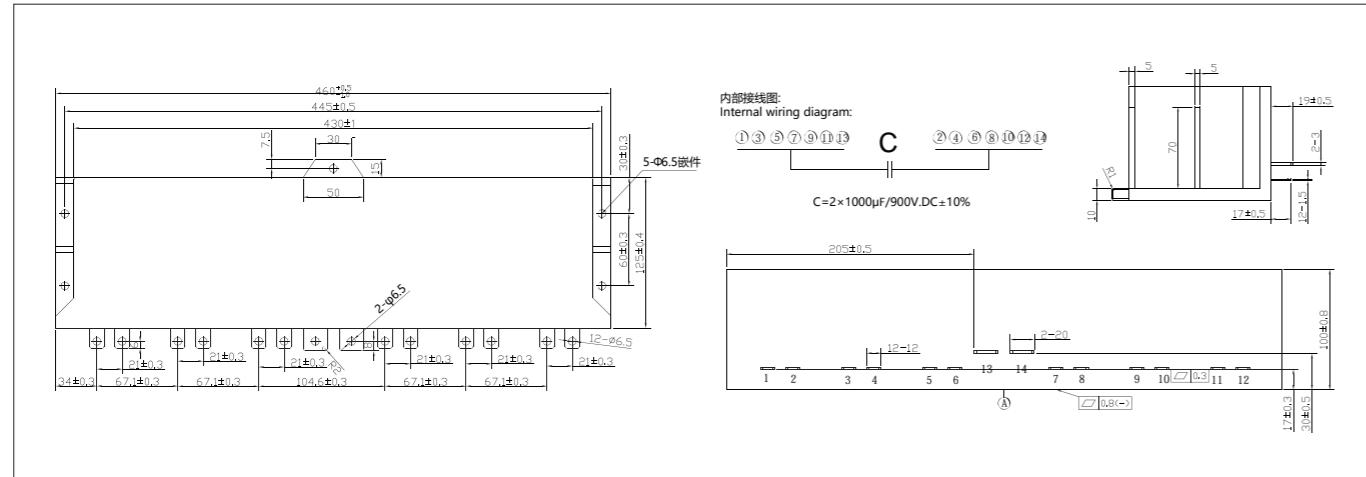
	产品编码: MKP61A0450D108J**	
工作温度范围 / Operating temperature range	-40°C ~ 105°C	
贮存温度范围 / Storage temperature range	-40°C ~ 105°C	
额定电压( U <sub>N</sub> ) / Rated voltage	450V.DC	
额定容量( C <sub>N</sub> ) / Rated capacitance	1000μF	
容量偏差 / Cap.tol	±5% ( J )	
耐电压 / Withstand voltage	Vt - t	1.5U <sub>N</sub> / 10s ( 20°C±5°C )
	Vt - c	3000V.AC / 10s ( 50Hz , 20°C±5°C )
损耗角正切 / Dissipation factor	tgδ≤0.001 f = 100Hz 介质损耗 tgδ <sub>0</sub> ≤ 0.0002	
绝缘电阻/Insulation resistance	Rs×C> 10000s ( at20°C 100V.DC 60s )	
等效串联电阻 / ESR	≤0.3mΩ ( 10kHz )	
自感/Ls	≤ 20nH	
热阻 / Rth	1.8K/W	
额定电流/Max. current Irms	140A ( 70°C )	
浪涌电压 / Non-recurrent surge voltage(Us)	675V.DC	
脉冲峰值电流 / Maximum peak current(i)	5kA	
浪涌电流 / Maximum surge current( Is)	15kA	
失效率 / Failure quota	<50fit	
预期寿命 / Life expectancy	参考预期寿命曲线/Reference life expectancy curve	
引用标准 / Reference standard	IEC61071 ; AEC Q200D - 2010	
重量 / Weight	≈ 2.3kg	
尺寸 / Dimension	275mm x 72mm x 70mm	

性能参数 Technical data

	产品编码: MKP61A0900D188K**	
工作温度范围 / Operating temperature range	-40°C ~ 105°C	
贮存温度范围 / Storage temperature range	-40°C ~ 105°C	
额定电压( U <sub>N</sub> ) / Rated voltage	900V.DC	
额定容量( C <sub>N</sub> ) / Rated capacitance	1800μF	
容量偏差 / Cap.tol	±10% ( K )	
耐电压 / Withstand voltage	Vt - t	1.5U <sub>N</sub> / 10s ( 20°C±5°C )
	Vt - c	3000V.AC / 10s ( 50Hz , 20°C±5°C )
损耗角正切 / Dissipation factor	tgδ≤ 0.001 f = 100Hz 介质损耗 tgδ <sub>0</sub> ≤ 0.0002	
绝缘电阻/Insulation resistance	Rs×C > 10000s ( at20°C 100V.DC 60s )	
等效串联电阻 / ESR	≤0.2mΩ ( 10kHz )	
自感/Ls	≤20nH	
热阻 / Rth	1.2K/W	
额定电流/Max. current Irms	160A ( 70°C )	
浪涌电压 / Non-recurrent surge voltage(Us)	1350V.DC	
脉冲峰值电流 / Maximum peak current( i )	7.2kA	
浪涌电流 / Maximum surge current( Is )	14.4kA	
失效率 / Failure quota	≤50fit	
预期寿命 / Life expectancy	参考预期寿命曲线/Reference life expectancy curve	
引用标准 / Reference standard	IEC61071 ; AEC Q200D - 2010	
重量 / Weight	≈ 6.7kg	
尺寸 / Dimension	324mm x 130mm x 128mm	

# DC-Link 金属化薄膜电容器 DKMJ-AP series Metalized film capacitor

## 尺寸图 Size chart



## 性能参数 Technical data

	产品编码: MKP61A0900D188K**
工作温度范围 / Operating temperature range	-40°C ~ 105°C
贮存温度范围 / Storage temperature range	-40°C ~ 105°C
额定电压(UN) / Rated voltage	900V.DC
额定容量(CN) / Rated capacitance	2×1000μF
容量偏差 / Cap.tol	±10% (K)
耐电压 / Withstand voltage	Vt - t 1.5UN/ 10s ( 20°C±5°C ) Vt - c 3000V.AC / 10s ( 50Hz , 20°C±5°C )
损耗角正切 / Dissipation factor	tgδ≤0.001 f = 100Hz 介质损耗tgδ₀ ≤0.0002
绝缘电阻/Insulation resistance	Rs×C≥10000s ( at20°C 100V.DC 60s )
等效串联电阻 / ESR	≤0.3mΩ ( 10kHz )
自感/Ls	≤25nH
热阻 / Rth	0.5K/W
额定电流/Max. current Irms	200A ( 70°C )
浪涌电压 / Non-recurrent surge voltage(Us)	1350V.DC
脉冲峰值电流 / Maximum peak current(i)	10kA
浪涌电流 / Maximum surge current( Is)	20kA
失效率 / Failure quota	≤50fit
预期寿命 / Life expectancy	参考预期寿命曲线/Reference life expectancy curve
引用标准 / Reference standard	IEC61071 ; AEC Q200D-2010
重量 / Weight	≈ 7.8kg
尺寸 / Dimension	460mm x 125mm x 100mm

# 高频滤波/耦合 薄膜电容器 DMJ-MT series High-frequency filter/coupling metalized film capacitor

铜螺母引出体积小, 安装简单方便  
Copper nut leads,small size,easy installation

自感 (ESL)小, 等效串联电阻 (ESR)小  
Low ESL and ESR

迈拉胶带封装, 干式树脂灌注  
Myra tape encapsulation,dry resin infusion.

高脉冲电流, 高dv/dt承受能力  
High pulse Current,  
high dv/dt withstand capability

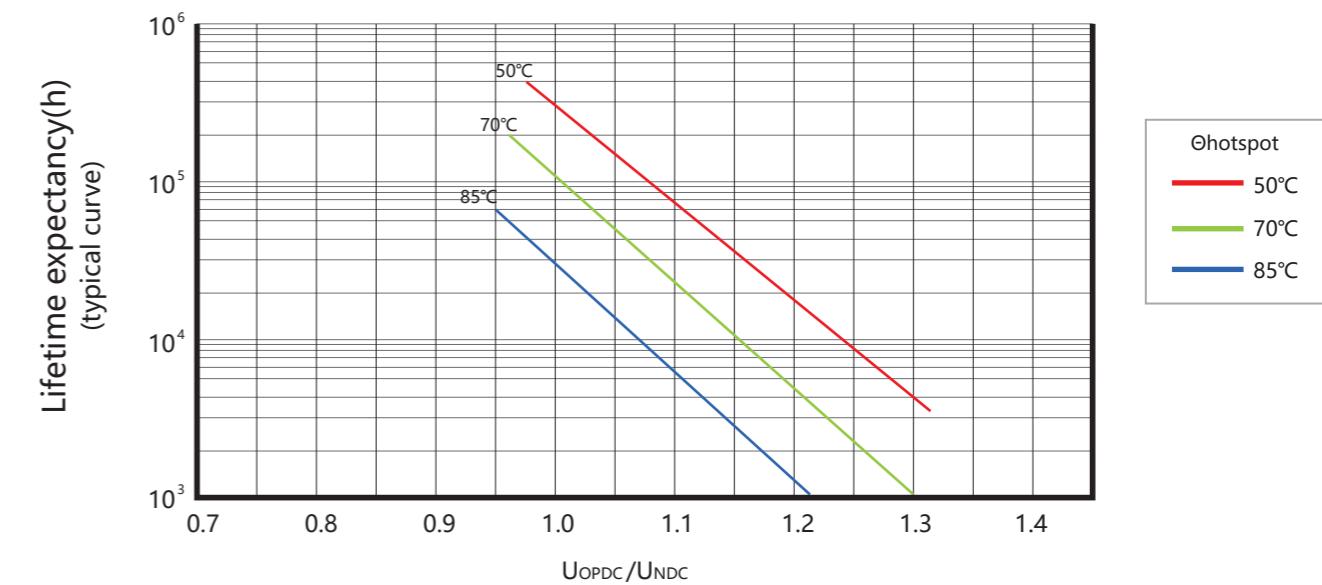
## 应用

- 广泛应用于DC-Link电路中, 作高频滤和退耦用。
- 广泛应用于电力电子电路中, 作隔直耦合用。

## Application

- Widely used in DC-Link circuit for high-frequency filtering and decoupling
- Widely used in power electronic circuits,for coupling purposes

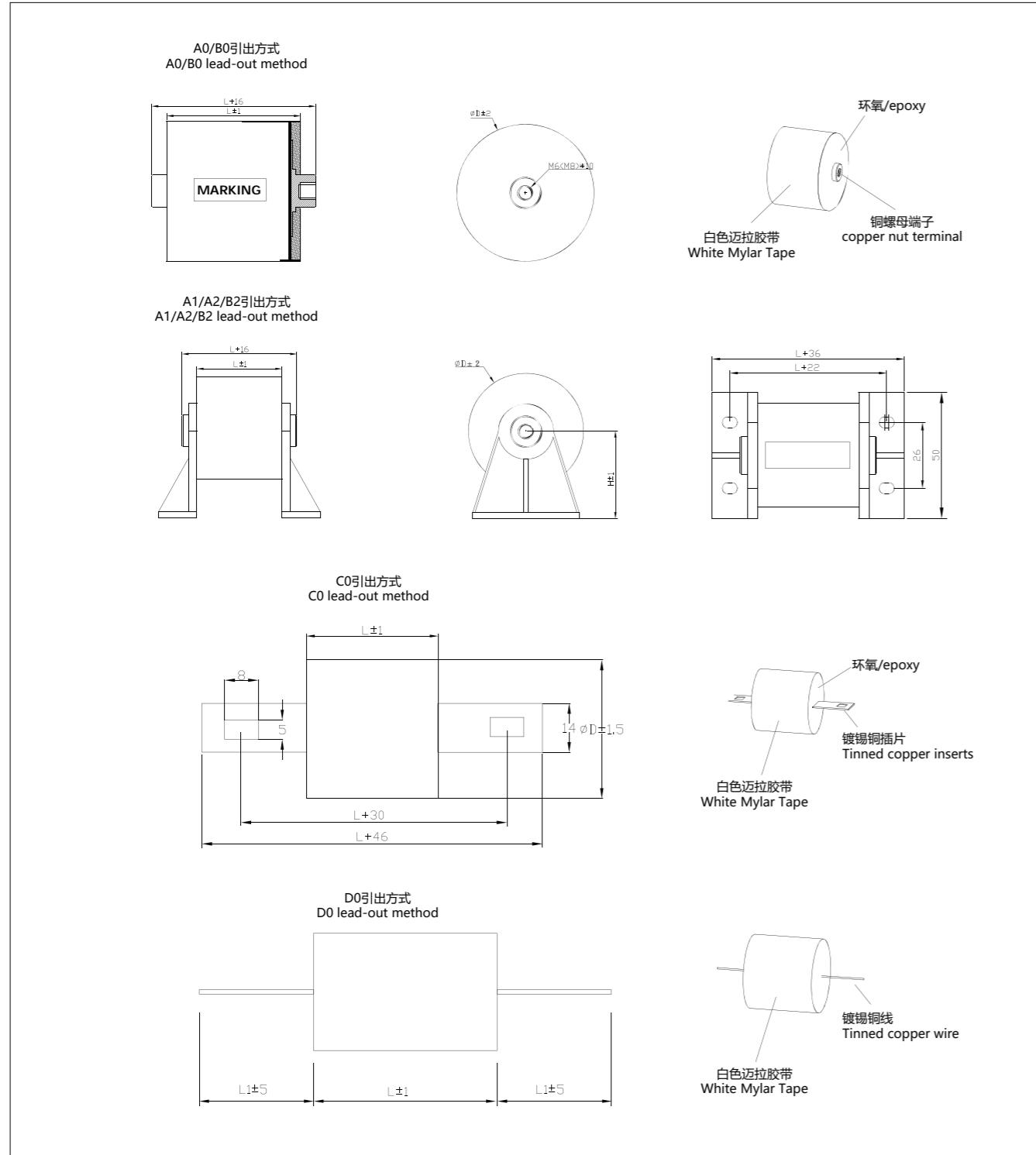
## 预期寿命曲线图 Life expectancy in the graph



# 高频滤波/耦合 薄膜电容器 DMJ-MT series

## High-frequency filter/coupling metalized film capacitor

外形图 The contour map



性能参数 Technical data

工作温度范围/Operating temperature range	Max.Operating temperature.,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperature : - 40°C
容量范围( C <sub>N</sub> ) / Capacitance range	10μF - 100μF
额定电压( U <sub>N</sub> ) / Rated voltage	350V.DC - 1100V.DC
容量偏差 / Cap.tol	±5%(J): ±10%(K)
耐电压/Withstand voltage	1.5U <sub>N</sub> DC / 60s
过电压 / Over voltage	1.1U <sub>N</sub> ( 30% of on - load - dur. ) 1.15U <sub>N</sub> ( 30min / day ) 1.2U <sub>N</sub> ( 5min / day ) 1.3U <sub>N</sub> ( 1min / day ) 1.5U <sub>N</sub> ( 100ms every time,1000times during the lifetime )
损耗角正切 / Dissipation factor	tgδ≤0.0015 f = 1kHz
绝缘电阻 / Insulation resistance	Rs×C ≥ 10000s ( at 20°C 100V.DC 60s )
耐脉冲电流冲击 / Withstand strike current	见附表/see attached table
有效电流 / I <sub>rms</sub>	见附表/see attached table
引用标准 / Reference standard	IEC61071

产品编码说明 Part number system

Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Length		Lead	Bottom mounted	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
D	M	T	4	0	6	0	8	0	0	J	4	0	A	0	0	1
1	~	3	位:	型号代码/Model												
4	~	6	位:	标称容量/Nominal Capacity												
e.g. 406 = 40×10 <sup>6</sup> pF = 40μF																
7	~	10	位:	额定电压 ( 直流 ) / U <sub>N</sub> (DC)												
e.g. 0800= 800V. DC																
11	~	11	位:	容量偏差等级/Capacitance Tolerance												
±5%(J): ±10%(K)																
12	~	13	位:	长度/Length												
e.g. 40= 40mm																
14	~	14	位:	引出形式/Lead												
A: M6x10螺母引出/screw nut																

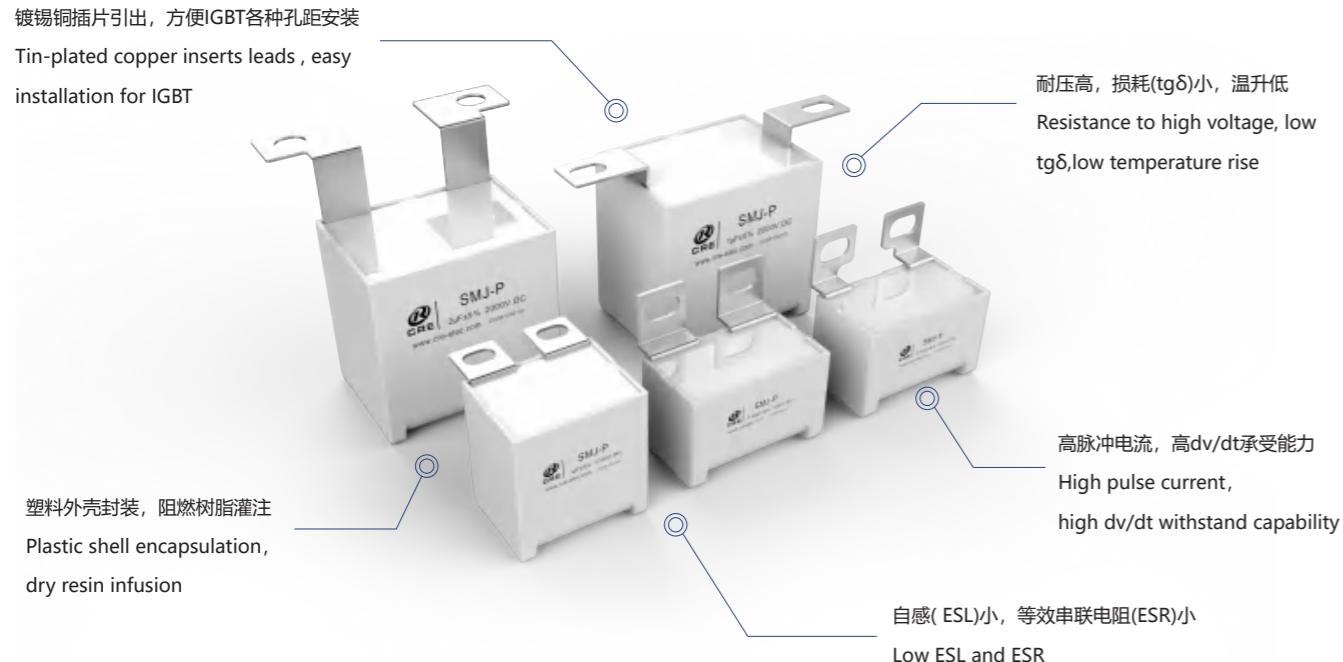




# IGBT 缓冲吸收电容 SMJ-P series

## Snubber capacitor

续上表



### 应用

- IGBT缓冲吸收。
- 广泛应用于电力电子设备中开关器件关断时的尖峰电压，尖峰电流吸收保护。

### Application

- IGBT Snubber.
- Widely used in power electronic equipment when the peak voltage, peak current absorption protection.

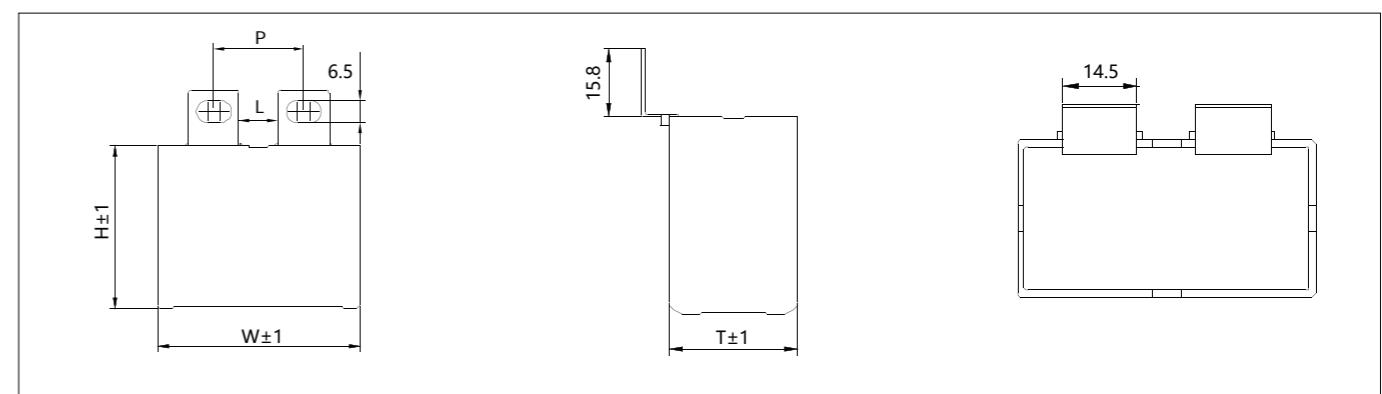
### 性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature.Top,max : + 105°C Upper category temperature:+85°C Lower category temperature:- 40°C
容量范围( C <sub>N</sub> ) / Capacitance range	0.1μF~5.6μF
额定电压( U <sub>N</sub> ) / Rated voltage	700V.DC ~ 3000V.DC
容量偏差 / Cap.tol	±5% ( J ) ; ±10% ( K )
耐电压 / Withstand voltage	1.5U <sub>NDC</sub> /10s
损耗角正切 / Dissipation factor	tgδ<0.0005 C<1μF f=10kHz tgδ< 0.001 C>1μF f=10kHz
绝缘电阻 / Insulation resistance	C ≤ 0.33μF Rs≥30000 MΩ ( at20°C 100V.DC 60s ) C > 0.33μF Rs×C ≥10000s ( at20°C 100V.DC 60s )

### 性能参数 Technical data

耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet
阻燃性 / Flame retardation	UL94V -0
预期寿命 / Life expectancy	100000h ( U <sub>N</sub> ; θ <sub>hotspot</sub> ≤85°C )
引用标准 / Reference standard	IEC61071 ; GB / T17702

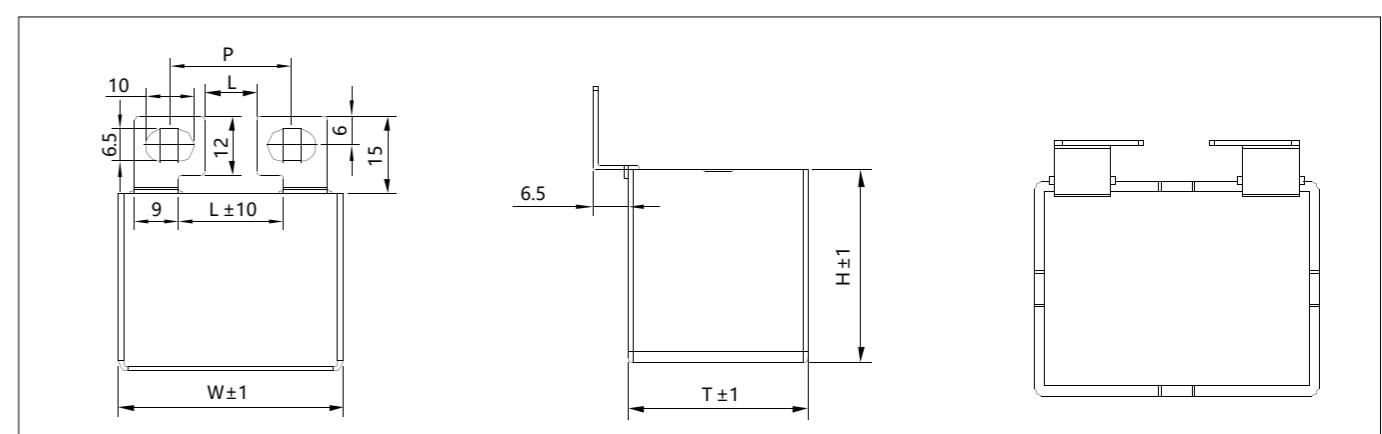
### 尺寸图 Size chart



#### Type A0:

W	L	P	L	P
42.5	10.5	22 ~ 29		
57.5	10.5	22 ~ 29	25.5	37 ~ 44

Output: M6



#### Type A1:

W	L	P	L	P
42.5	10.5	22 ~ 29		
57.5	10.5	22 ~ 29	25.5	37 ~ 44

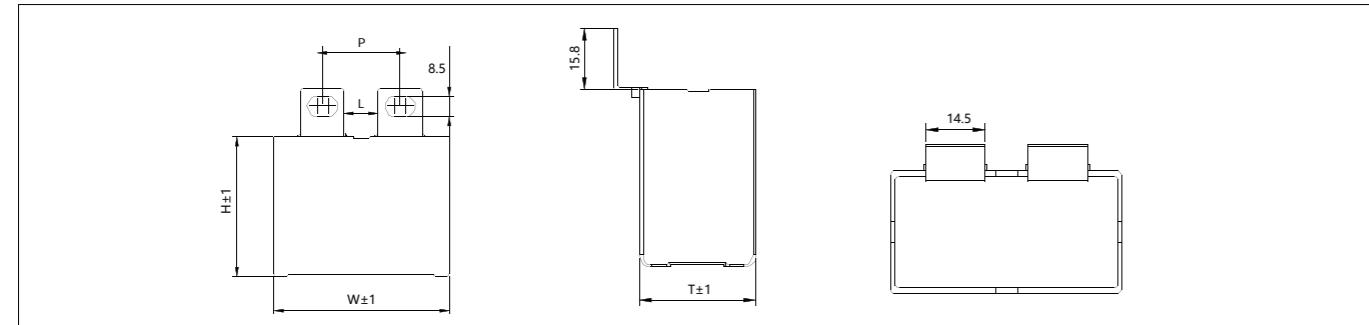
Output: M6



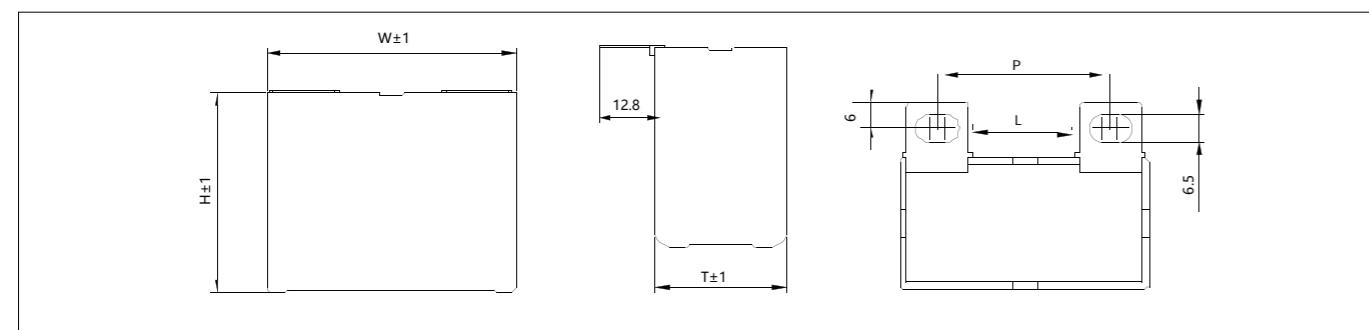
# IGBT 缓冲吸收电容 SMJ-P series

## Snubber capacitor

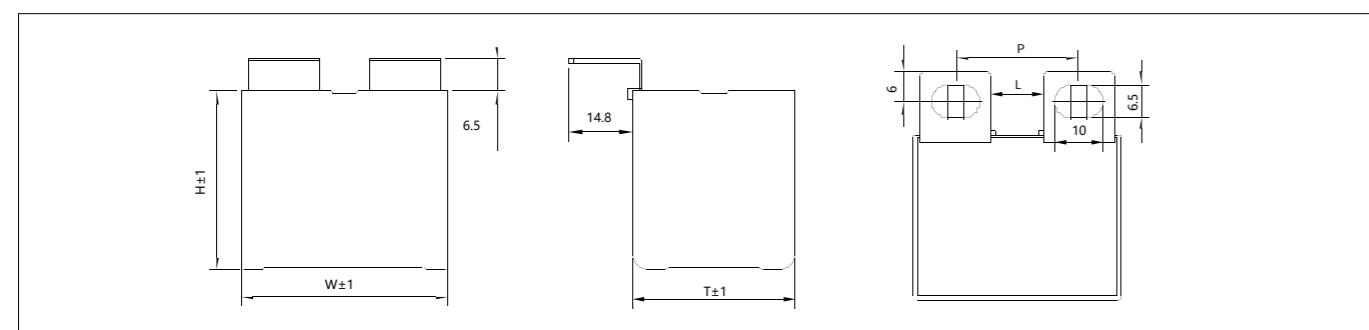
尺寸图 Size chart



Type A2:					Output: M8
W	L	P	L	P	
42.5	11	24 ~ 26	8	21 ~ 23	
57.5	11	24 ~ 26	24	37 ~ 39	



Type B0:					Output: M6
W	L	P	L	P	
42.5	10.5	22 ~ 29	22 ~ 29	25.5	37 ~ 44
57.5	10.5	22 ~ 29			

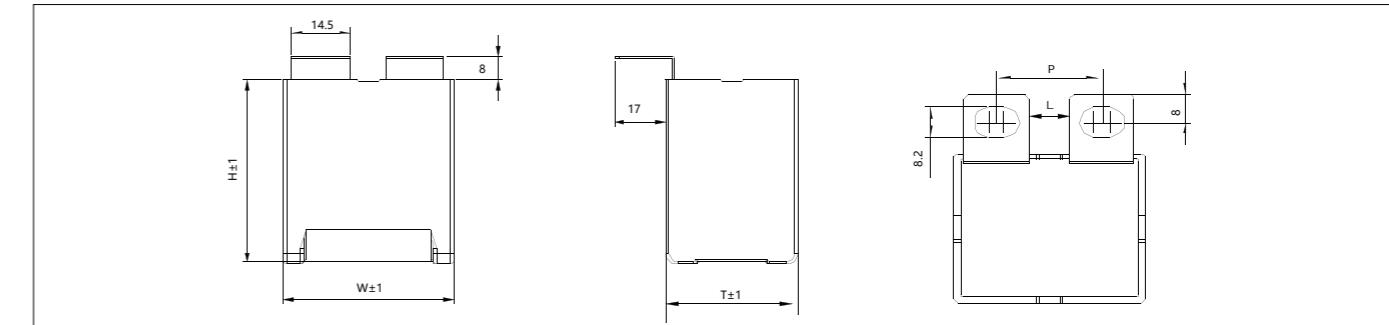


Type B1:					Output: M6
W	L	P	L	P	
42.5	10.5	22 ~ 29	22 ~ 29	25.5	37 ~ 44
57.5	10.5	22 ~ 29			

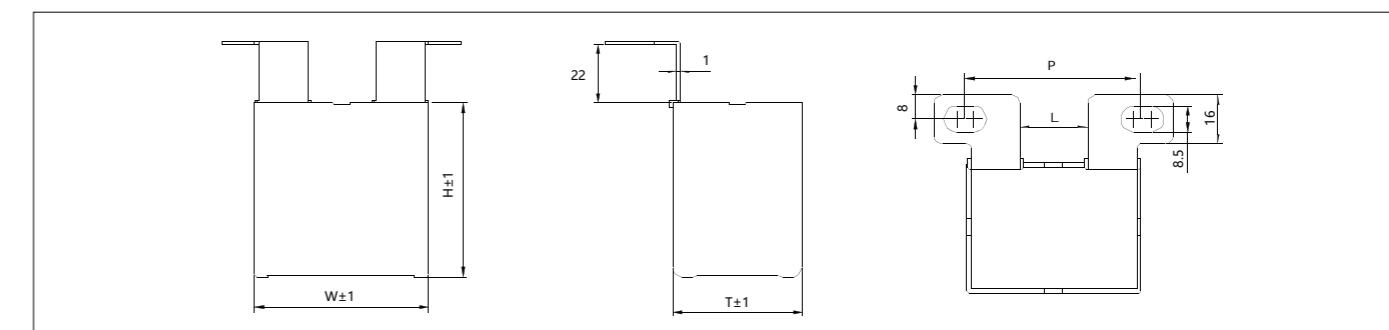


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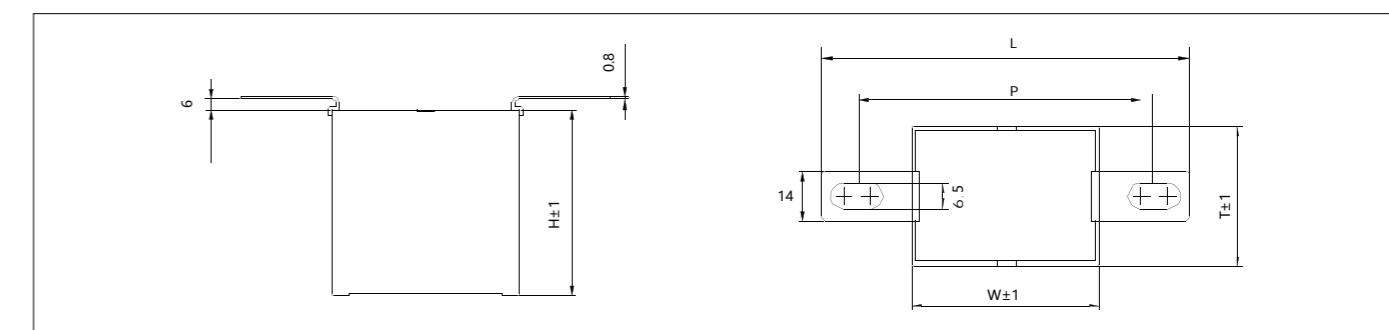
尺寸图 Size chart



Type B2:					Output: M8
W	L	P	L	P	
42.5	10.5	22 ~ 26	8.5	22 ~ 24	
57.5	10.5	22 ~ 26	23.5	37 ~ 39	



Type B3:					Output: M8
W	L	P	L	P	
57.5	21	51.5 ~ 62.5			



Type C0:					Output: M6
W	L	P	L	P	
42.5	80.5	60.5 ~ 64.5			
57.5	95.5	75.5 ~ 79.5			

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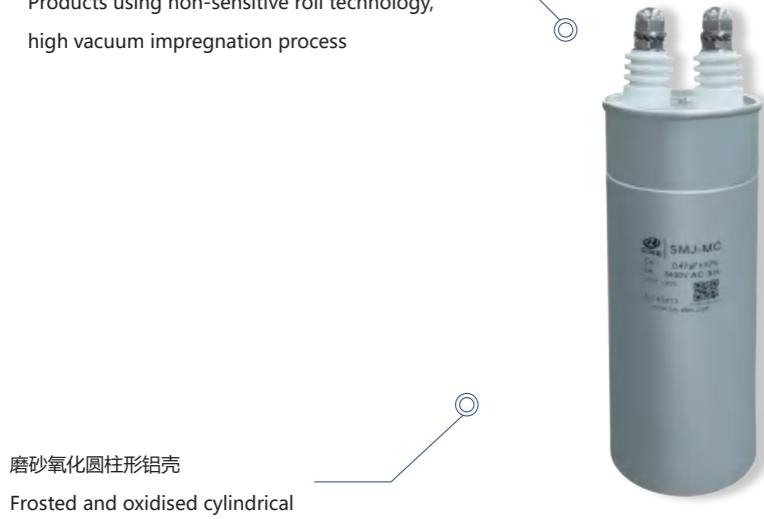




# 阻尼吸收电容器 SMJ-MC series

## Damping Absorption Capacitor

产品采用无感辊技术，高真空浸渍工艺  
Products using non-sensitive roll technology,  
high vacuum impregnation process



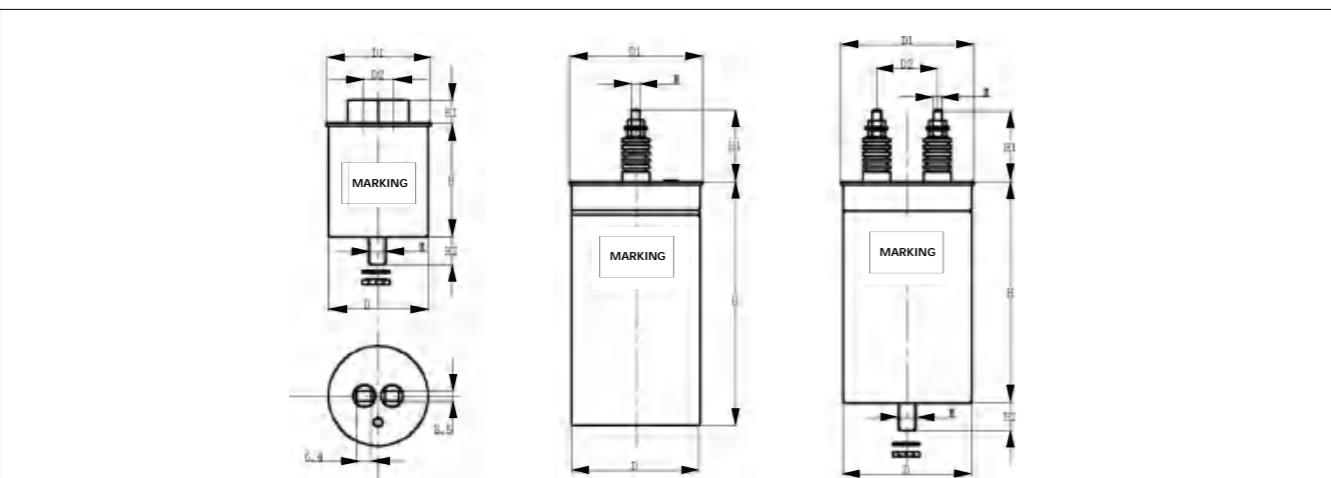
### 应用

- 主要用于限制电路中电压过高的上升速率，以保护电力电子中半导体的开关和保护；
- 滤波和储能；
- 主要应用领域为整流器、SVC、机车电源等。

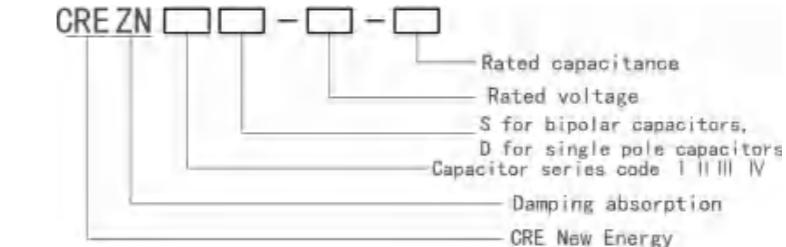
### Application

- Mainly used to limit the rise rate of excessive voltage in circuits to protect switching and protection of semiconductors in power electronics.
- filtering and energy storage.
- The main application areas are rectifiers, SVCs, locomotive power supplies, etc.

### 外形图 The contour map



### 型号说明 Model Description



### 规格表 Specification table

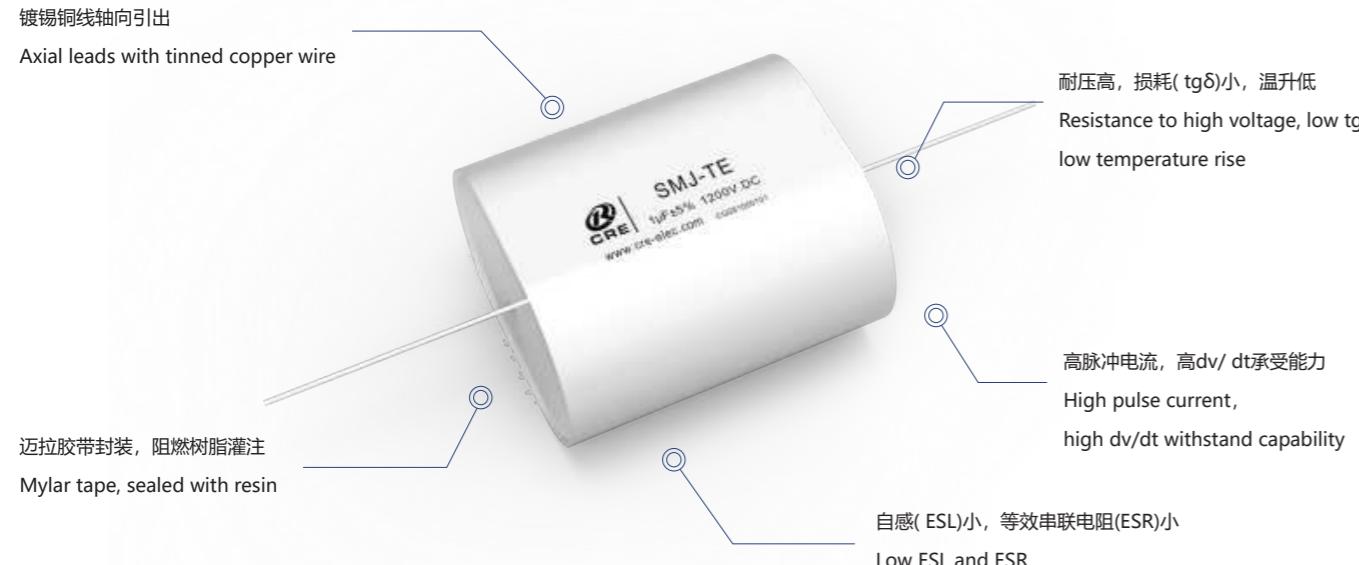
$C_N$ ( $\mu\text{F}$ )	$I_{max}$ ( $\text{A}_{rms}$ )	$I^*$ (kA)	$I_s$ (kA)	D (mm)	H (mm)	Bottom bolts	Model	
							$U_N$ 1000V AC	$U_{NDc}$ 1700V DC
0.1	10	0.2	1.2	50	55	M8	CREZN-1kVAC-0.1 $\mu\text{F}$	
0.22	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.22 $\mu\text{F}$	
0.33	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.33 $\mu\text{F}$	
0.47	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.47 $\mu\text{F}$	
0.5	10	0.2	1.6	50	55	M8	CREZN-1kVAC-0.5 $\mu\text{F}$	
1	18	0.2	1.6	50	75	M8	CREZN-1kVAC-1 $\mu\text{F}$	
2	18	0.3	2	50	75	M8	CREZN-1kVAC-2 $\mu\text{F}$	
3	18	0.5	2.8	60	90	M12	CREZN-1kVAC-3 $\mu\text{F}$	
4	18	0.7	3	60	122	M12	CREZN-1kVAC-4 $\mu\text{F}$	
6	18	0.9	3.5	60	152	M12	CREZN-1kVAC-6 $\mu\text{F}$	
10	18	1.2	4	76	152	M12	CREZNIIS-500VAC/1kVAC-10 $\mu\text{F}$	
$U_N$ 1600V AC $U_{NDc}$ 2500V DC $U_s$ 3800V $U_{B8}$ 2400V AC $U_{B6}$ 3300V AC								
0.1	10	0.2	1.2	50	55	M8	CREZN-1.6kVAC-0.1 $\mu\text{F}$	
0.22	10	0.2	1.6	50	55	M8	CREZN-1.6kVAC-0.22 $\mu\text{F}$	
0.33	10	0.2	1.6	50	75	M12	CREZN-1.6kVAC-0.33 $\mu\text{F}$	
0.47	18	0.2	1.6	50	75	M12	CREZN-1.6kVAC-0.47 $\mu\text{F}$	
0.5	18	0.2	1.6	50	75	M12	CREZN-1.6kVAC-0.5 $\mu\text{F}$	
1	18	0.2	1.6	60	90	M8	CREZN-1.6kVAC-1 $\mu\text{F}$	
2	18	0.3	2	60	122	M12	CREZN-1.6kVAC-2 $\mu\text{F}$	
3	18	0.5	2.8	60	152	M12	CREZNIIS-1.6kVAC-3 $\mu\text{F}$	
4	18	0.7	3	76	122	M12	CREZNIIS-1.6kVAC-4 $\mu\text{F}$	
6	18	0.9	3.5	76	152	M12	CREZNIIS-1.6kVAC-6 $\mu\text{F}$	
10	18	1.2	4	96	152	M16	CREZNIIS-1.6kVAC-10 $\mu\text{F}$	



# IGBT 缓冲吸收电容 SMJ-TE series

## Snubber capacitor

续上表



### 应用

- IGBT缓冲吸收。
- 广泛应用于电力电子设备中开关器件关断时的尖峰电压, 尖峰电流吸收保护。

### Application

- IGBT snubber.
- Widely used in power electronic equipment when the peak voltage, peak current absorption protection .

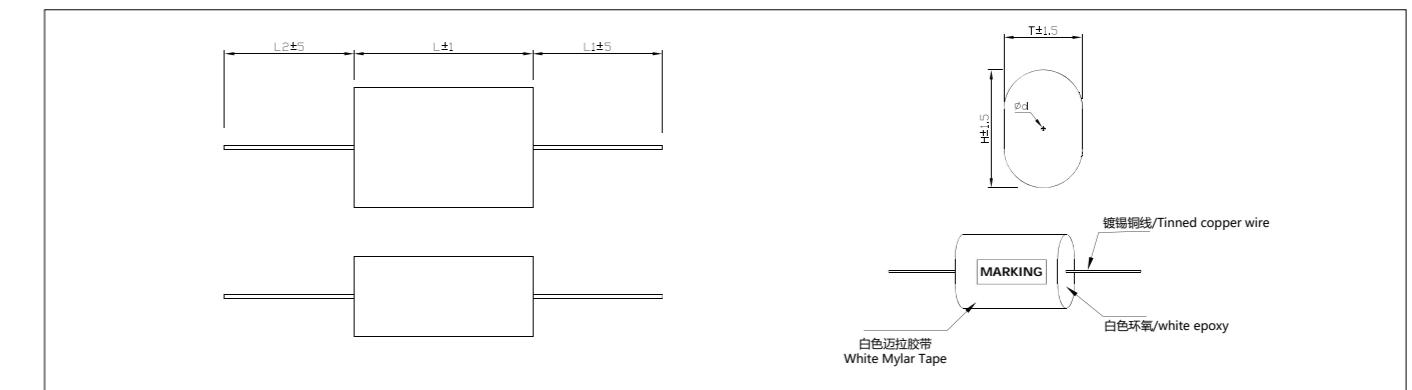
### 性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature.,Top,max : + 85°C Upper category temperature: +85°C Lower category temperature : - 40°C
容量范围( C <sub>N</sub> ) / Capacitance range	0.1μF~ 5.6μF
额定电压( U <sub>N</sub> ) / Rated voltage	630V.DC ~ 2000V.DC
容量偏差 / Cap.tol	±5%(J); ±10%(K)
耐电压 / Withstand voltage	1.5U <sub>NDC</sub> / 10s
损耗角正切 / Dissipation factor	tgδ≤0.0005 C<1μF f=10kHz tgδ≤0.001 C≥1μF f=10kHz
绝缘电阻/Insulation resistance	C ≤ 0.33μF Rs≥30000 MΩ( at 20°C 100V.DC 60s ) C>0.33μF Rs×C≥10000s ( at 20°C 100V.DC 60s )

### 性能参数 Technical data

耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet
预期寿命/Life expectancy	100000h ( U <sub>N</sub> ; θ <sub>hotspot</sub> ≤ 85°C )
引用标准/Reference standard	IEC61071;GB/T17702

### 外形图 The contour map



### 产品编码说明 Part number system

Model	Capacitance			U <sub>N</sub> (DC)				Cap. tol	Length		Lead	Internal feature code			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
S	T	E	4	7	4	1	2	0	0	J	4	4	A	0	1
1	~	3	位:	型号代码/Model											
4	~	6	位:	标称容量/Nominal Capacity e.g. 474=47×10 <sup>4</sup> pF=0.47μF											
7	~	10	位:	额定电压(直流) / U <sub>N</sub> (DC) e.g. 1200=1200VDC											
		11	位:	容量偏差等级/Capacitance Tolerance ±5% (J); ±10% (K)											
12	~	13	位:	长度/Length e.g. 44=44mm											
		14	位:	引出形式/Lead A: Φ0.8×30 B: Φ1.0×42 C: Φ1.2×42											
15	~	16	位:	内部特征码/Internal feature code											



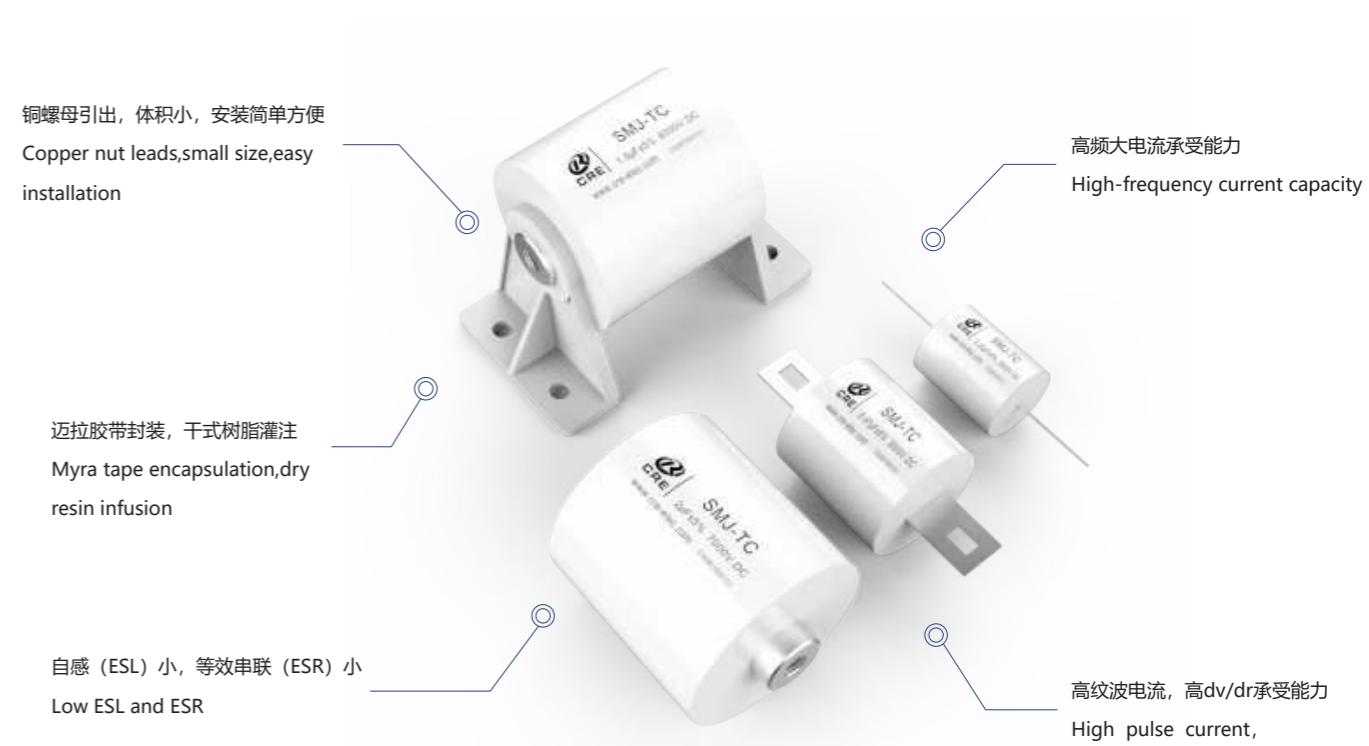
# IGBT 缓冲吸收电容 SMJ-TE series Snubber capacitor

规格表 Specification table

$C_N$ ( $\mu F$ )	L (mm)	T (mm)	H (mm)	$\phi D$ (mm)	ESR @100kHz (m $\Omega$ )	ESL (nH)	dv/dt (V/ $\mu$ s)	$I_p$ (A)	$I_{rms}$ @25°C 100kHz (A)	Part number
U <sub>N</sub> 1700V.DC Urms 575V.AC Us 2550V										
0.22	32	15	23	1	15	24	1200	264	9.3	STE2241700*32B**
0.33	32	18.5	26.5	1	12	22	1200	396	9.9	STE3341700*32B**
0.33	44	13.5	21.5	1.2	12	29	1100	363	10.2	STE3341700*44C**
0.47	44	16	24	1.2	9	28	1000	470	11.2	STE4741700*44C**
0.68	44	20	28	1.2	8	27	1000	680	11.7	STE6841700*44C**
1	44	24	33.5	1.2	5.6	26	900	900	12.4	STE1051700*44C**
1	57	19.5	27.5	1.2	6	33	850	850	10.8	STE1051700*57C**
1.5	44	28	40.5	1.2	4.8	25	800	1200	13.5	STE1551700*44C**
1.5	57	24	32	1.2	5	33	750	1125	13.5	STE1551700*57C**
2	44	31.5	47	1.2	4.5	24	750	1500	14.2	STE2051700*44C**
2	57	27.5	37	1.2	4.8	32	650	1300	12.8	STE2051700*57C**
2.2	44	33.5	49	1.2	4.5	34	700	1540	15.6	STE2251700*44C**
2.2	57	29	40	1.2	4.2	32	600	1320	14.5	STE2251700*57C**
3	57	31	46.5	1.2	4	30	560	1680	17.2	STE3051700*57C**
3.3	57	33	48.5	1.2	3.2	29	500	1650	17.6	STE3351700*57C**
4	57	37	52.5	1.2	3	28	450	1800	18.2	STE4051700*57C**
U <sub>N</sub> 2000V.DC Urms 700V.AC Us 3000V										
0.068	32	9	17	0.8	25	23	1500	102	6.9	STE6832000*32B**
0.1	32	11.5	19.5	1	18	22	1500	150	8.2	STE1042000*32B**
0.1	37	10.5	18.5	1	18	26	1450	145	8	STE1042000*37C**
0.22	32	17.5	25.5	1.2	15	21	1400	308	9.1	STE2242000*32C**
0.22	37	16	24	1.2	15	25	1300	286	9	STE2242000*37C**
0.33	37	20	28	1.2	12	24	1250	412.5	9.5	STE3342000*37C**
0.33	44	18	26	1.2	12	30	1200	396	10.2	STE3342000*44C**
0.47	44	19.5	32	1.2	10	29	1100	517	12.4	STE4742000*44C**
0.68	44	24	36.5	1.2	8	28	1000	680	14.2	STE6842000*44C**
0.68	57	18.5	31	1.2	8	27	900	612	14.2	STE6842000*57C**
1	57	23.5	36	1.2	6	31	950	950	14.5	STE1052000*57C**
1.5	57	29.5	42	1.2	5	31	850	1275	14.5	STE1552000*57C**
2	57	33	48.5	1.2	4.2	31	750	1500	16.5	STE2052000*57C**
2.2	57	35	50.5	1.2	4	30	700	1540	17.8	STE2252000*57C**
U <sub>N</sub> 3000V.DC Urms 750V.AC Us 4500V										
0.047	44	13.5	21.5	1	22	20	2000	94	8.5	STE4733000*44B**
0.068	44	17	25	1	20	20	1800	122.4	10.5	STE4733000*44B**
0.1	44	20.5	28.5	1.2	18	20	1500	150	12.4	STE1043000*44C**
0.15	44	26	34	1.2	16	22	1350	202.5	13.8	STE1543000*44C**
0.22	44	29	41.5	1.2	14.5	22	1200	264	14.5	STE2243000*44C**

续上表

# GTO 缓冲吸收电容 SMJ-TC series Snubber capacitor



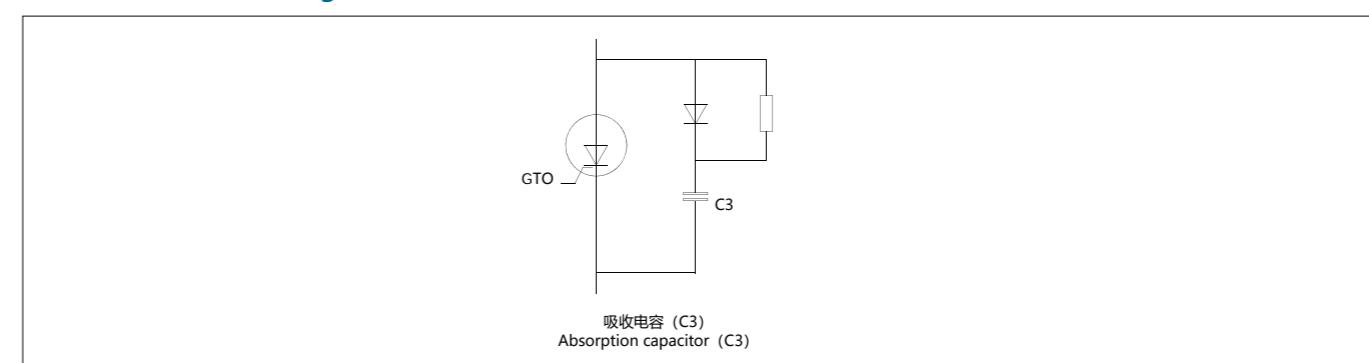
## 应用

- GTO缓冲吸收。
- 广泛应用于电力电子设备中开关器件关断时的尖峰电压, 尖峰电流吸收保护。

## Application

- GTO snubber.
- Widely used in power electronic equipment when the peak voltage, peak current absorption protection

## 线路图 The circuit diagram



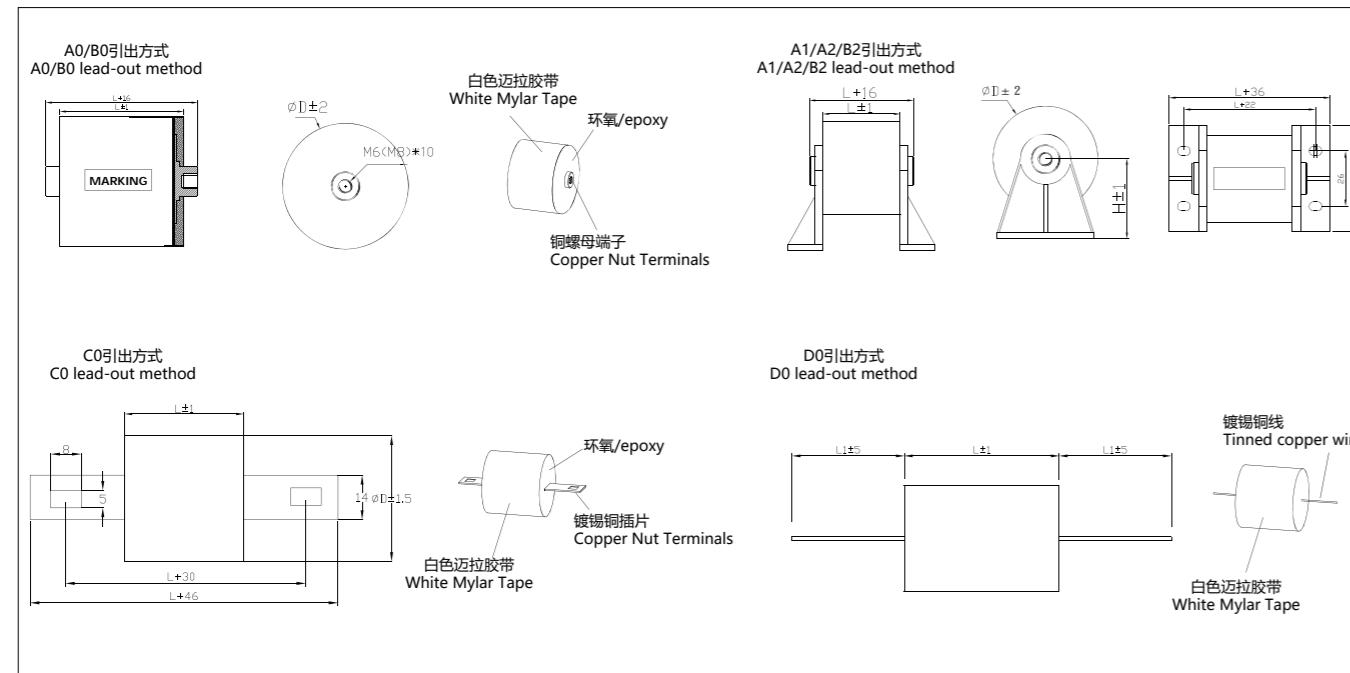
# GTO 缓冲吸收电容 SMJ-TC series

## Snubber capacitor

### 性能参数 Technical data

工作温度范围/Operating temperature range	Max.Operating temperature.Top,max:+85°C Upper category temperaturer:+85°C Lower category temperaturer:-40°C
容量范围 ( $C_N$ ) /Capacitance range	0.22μF~3μF
额定电压 ( $U_N$ ) /Rated voltage	3000V.DC~10000V.DC
容量偏差/Cap.tol	±5% (J) ; ±10% (K)
耐电压/Withstand voltage	1.35 $U_N$ /10s
损耗角正切/Dissipation factor	$\operatorname{tg}\delta \leq 0.001$ f=1kHz
绝缘电阻/Insulation resistance	$C \leq 0.33\mu F$ $R_s \geq 15000M\Omega$ (at 20°C 100V.DC 60s) $C > 0.33\mu F$ $R_s \times C \geq 5000s$ (at 20°C 100V.DC 60s)
耐脉冲电流冲击/Withstand strike current	见附表/See attached table
预期寿命/Life expectancy	100000h ( $U_N$ ; $\theta_{hotspot} \leq 70^\circ C$ )
引用标准/Reference standard	IEC61071

### 外形图 The contour map



### 产品编码说明 Part number system

Model			Capacitance			U <sub>N</sub> (DC)						Cap. tol	Length		Lead	mounting bracket	Internal feature code																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																
S	T	C	1	0	5	0	7	0	0	0	J	8	0	A	0	0	1																
1	~	3	位:	型号代码/Model																													
4	~	6	位:	标称容量/Nominal Capacity																													
			e.g. 105=10×10 <sup>5</sup> pF=1μF																														
7	~	11	位:	额定电压(直流) / U <sub>N</sub> (DC)																													
			e.g. 07000=7000VDC																														
12	~	14	位:	容量偏差等级/Capacitance Tolerance																													
			±5% (J) ; ±10% (K)																														
13	~	14	位:	长度/Length																													
			e.g. 80=80mm																														
15	~	14	位:	引出形式/Lead																													
			A: M6×10螺母引出/screw nut																														
			B: M8×10螺母引出/screw nut																														
			C: 直插片引出/Plated lead																														
			D: 插针引出/Pin lead (φ1.2)																														
16	~	14	位:	安装支架代码: /mounting bracket																													
			0: Non-bracket																														
			1: 1类支架/ Class 1 bracket (H=35mm)																														
			2: 2类支架/ Class 2 bracket (H=41mm)																														
			3: 3类支架/ Class 3 bracket (H=37mm)																														
17	~	14	位:	内部特征码/Internal feature code																													



# GTO 缓冲吸收电容 SMJ-TC series Snubber capacitor

规格表 Specification table

$C_N$ ( $\mu\text{F}$ )	$\varphi D$ (mm)	L (mm)	ESL (nH)	$\text{dv/dt}$ (V/ $\mu\text{s}$ )	$I_p$ (A)	$I_{rms}$ (A)	Part number
$U_N = 3000\text{V.DC}$							
0.22	35	44	25	1100	242	30	STC2243000*44****
0.33	43	44	25	1000	330	35	STC3343000*44****
0.47	51	44	22	850	399	45	STC4743000*44****
0.68	61	44	22	800	544	55	STC6843000*44****
1	74	44	20	700	700	65	STC1053000*44****
1.2	80	44	20	650	780	75	STC1253000*44****
1.5	52	70	30	600	900	45	STC1553000*70****
2	60	70	30	500	1000	55	STC2053000*70****
3	73	70	30	400	1200	65	STC3053000*70****
4	83	70	30	350	1400	70	STC4053000*70****
$U_N = 6000\text{V.DC}$							
0.22	43	60	25	1500	330	35	STC2246000*60****
0.33	52	60	25	1200	396	45	STC3346000*60****
0.47	62	60	25	1000	470	50	STC4746000*60****
0.68	74	60	22	900	612	60	STC6846000*60****
1	90	60	22	800	900	75	STC1056000*60****
$U_N = 7000\text{V.DC}$							
0.22	45	57	25	1100	242	30	STC2247000*57****
0.68	36	80	28	1000	680	25	STC6847000*80****
1	43	80	28	850	850	30	STC1057000*80****
1.5	52	80	25	800	1200	35	STC1557000*80****
1.8	57	80	25	700	1260	40	STC1857000*80****
2	60	80	23	650	1300	45	STC2057000*80****
3	73	80	22	500	1500	50	STC3057000*80****
$U_N = 8000\text{V.DC}$							
0.33	35	90	30	1100	363	25	STC3348000*90****
0.47	41	90	28	1000	470	30	STC4748000*90****
0.68	49	90	28	850	578	35	STC6848000*90****
1	60	90	25	800	800	40	STC1058000*90****
1.5	72	90	25	700	1050	45	STC1558000*90****
2	83	90	25	650	1300	50	STC2058000*90****
$U_N = 10000\text{V.DC}$							
0.33	45	114	35	1500	495	30	STC33410000*114****
0.47	54	114	35	1300	611	35	STC47410000*114****
0.68	65	114	35	1200	816	40	STC68410000*114****
1	78	114	30	1000	1000	55	STC10510000*114****
1.5	95	114	30	800	1200	70	STC15510000*114****

续上表

# Resonance / Snubber RMJ-PS series

金属化聚丙烯薄膜，能承受过压冲击

Metallized polypropylene film,  
withstanding overvoltage stressing



自愈特性、符合RoHS标准  
Self-healing properties/  
RoHS-compatible

适用于严苛环境  
Suitable for harsh  
environment conditions

符合85°C 85%RH 1.0UNDC1000 小时  
THB Grade IIIB (85°C, 85% RH, 1000h at  $U_N\text{DC}$ )

## 应用 Application

- LLC共振电路
- 广泛应用于电力电子器件的串联/并联谐振电路
- 开关电源
- IGBT的缓冲吸收
- LLC typology in resonant circuits.
- Widely used in power electronic devices in series / parallel resonant circuit,
- Switched-mode power supply.
- IGBT Snubber.

## 性能参数 Technical data

气候类别/阻燃等级 Climatic Category / Passive Flammability Category	55/105/56		
工作温度范围/ Operating temperature range	-55°C ~ +105°C +85°C to +105°C: Decreasing factor 1.25% per °C for $U_N\text{(DC)}$ +75°C to +105°C: Decreasing factor 1.35% per °C for $U_N\text{(AC)}$		
容量范围/ Capacitance range	0.00022~8 $\mu\text{F}$		
额定电压/ Rated voltage	250V~2000V		
容量偏差/ Capacitance tolerance	$\pm 5\%$ (J) ; $\pm 10\%$ (K) ; $\pm 20\%$ (M)	$\pm 1 \times 10^{-3}$ at 1kHz, 20°C	$V_{\text{test}}\text{(VDC)}\ 1\text{min},\ 20^\circ\text{C}$ $C_N \leq 0.33\mu\text{F}$ $\geq 100\text{G}\Omega$ $\geq 30000\text{s}$
损耗角正切/ Dissipation factor	$\leq 1 \times 10^{-3}$ at 1kHz, 20°C		
绝缘电阻/ Insulation resistance	$100 \pm 15$	$\geq 100\text{G}\Omega$	$\geq 30000\text{s}$
直流电压测试/ DC test voltage	$1.6U_N, 5\text{s}$		



# Resonance / Snubber RMJ-PS series

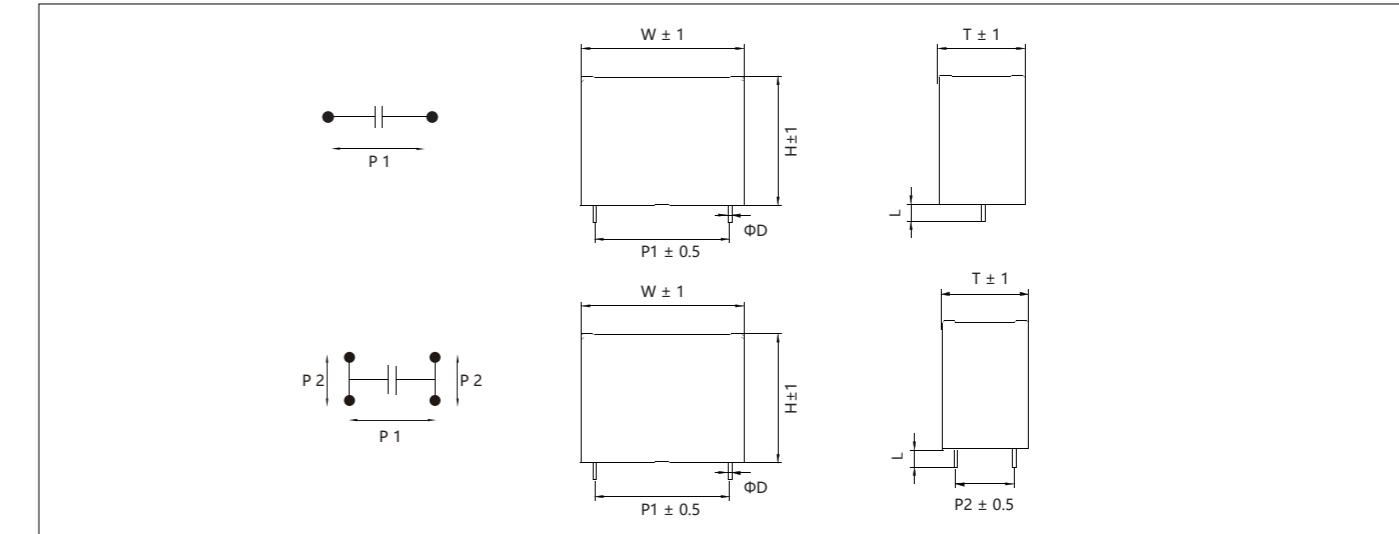
DV/DT数据 /THE DV/DT TABLE

U <sub>NDC</sub> (V)	Dv/dt (V/μs)					
	P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm	P=52.5mm
250	1000	550	250	200	/	/
400	1500	900	500	300	/	/
630	3200	2500	1500	900	500	300
1000	6000	3300	2100	1000	800	500
1600	/	6000	3000	2000	1200	800
2000	/	10000	5000	2200	1500	1000

产品编码说明 Part number system

Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Number of leads	P1	P2	Length of leads	Internal feature code														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17													
R	P	S	1	0	5	0	6	3	0	J	4	P1	P2	L	0	1													
1	~	3	位:	型号代码/Model																									
4	~	6	位:	标称容量/Nominal Capacity e.g. 105=10 × 10 <sup>5</sup> pF = 1μF																									
7	~	10	位:	额定电压 (直流) / U <sub>N</sub> (DC) e.g. 0630=630VDC																									
11	位:	容量偏差等级/Capacitance Tolerance J=±5% K=±10% M=±20%																											
12	位:	引出数量/Number of leads 2: 2 pins																											
13	位:	脚距P1/Distance between mounting holes P1 2: P1=10 6: P1=37.5																											
14	位:	脚距P2/Distance between mounting holes P2 0: 无 2: P2=20.3																											
15	位:	引出长度L/Length of leads 1: L=4 2: L=15																											
16	~	17	位:	内部特征码/Internal feature code 01																									

规格表 Specification table



规格表 Specification table

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD	P1	P2	
250VDC(180Vac)							
0.027	13	4	9	0.6	10	/	RPS2730250*220***
0.033	13	4	9	0.6	10	/	RPS3330250*220***
0.039	13	4	9	0.6	10	/	RPS3930250*220***
0.047	13	5	11	0.6	10	/	RPS4730250*220***
0.056	13	5	11	0.6	10	/	RPS5630250*220***
0.068	13	6	12	0.6	10	/	RPS6830250*220***
0.082	13	6	12	0.6	10	/	RPS8230250*220***
0.068	17.5	5	11	0.8	15	/	RPS6830250*230***
0.082	17.5	5	11	0.8	15	/	RPS8230250*230***
0.10	17.5	5	11	0.8	15	/	RPS1040250*230***
0.12	17.5	6	12	0.8	15	/	RPS1240250*230***
0.15	17.5	6	12	0.8	15	/	RPS1540250*230***
0.18	17.5	7.5	13.5	0.8	15	/	RPS1840250*230***
0.22	17.5	7.5	13.5	0.8	15	/	RPS2240250*230***
0.27	17.5	8.5	14.5	0.8	15	/	RPS270250*230***
0.33	17.5	10	16	0.8	15	/	RPS3340250*230***
250VDC(180Vac)							
0.39	17.5	10	16	0.8	15	/	RPS3940250*230***
0.22	26.5	6	15	0.8	22.5	/	RPS2240250*240***
0.27	26.5	6	15	0.8	22.5	/	RPS2740250*240***
0.33	26.5	6	15	0.8	22.5	/	RPS3340250*240***
0.39	26.5	7	16	0.8	22.5	/	RPS3940250*240***
0.47	26.5	7	16	0.8	22.5	/	RPS4740250*240***
0.56	26.5	8.5	17	0.8	22.5	/	RPS5640250*240***
0.68	26.5	10	18.5	0.8	22.5	/	RPS6840250*240***
0.82	26.5	10	18.5	0.8	22.5	/	RPS8240250*240***
1.0	26.5	12	22	0.8	22.5	/	RPS1050250*240***
0.82	32	9	18	0.8	27.5	/	RPS8240250*250***
1.0	32	11	20	0.8	27.5	/	RPS1050250*250***
1.2	32	11	20	0.8	27.5	/	RPS1250250*250***
1.5	32	13	22	0.8	27.5	/	RPS1550250*250***
1.8	32	15	24.5	0.8	27.5	/	RPS1850250*250***
2.2	32	15	24.5	0.8	27.5	/	RPS2250250*250***



# Resonance / Snubber RMJ-PS series

规格表 Specification table

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD	P1	P2	
<b>250VDC(180Vac)</b>							
2.7	32	18	33	0.8	27.5	/	RPS2750250*250***
3.3	32	18	33	0.8	27.5	/	RPS3350250*250***
3.9	32	18	33	0.8	27.5	/	RPS3950250*250***
<b>400VDC(250Vac)</b>							
0.010	13	4	9	0.6	10	/	RPS1030400*220***
0.012	13	4	9	0.6	10	/	RPS1230400*220***
0.015	13	4	9	0.6	10	/	RPS1530400*220***
0.018	13	4	9	0.6	10	/	RPS1830400*220***
0.022	13	4	9	0.6	10	/	RPS2230400*220***
0.027	13	5	11	0.6	10	/	RPS2730400*220***
0.033	13	5	11	0.6	10	/	RPS3330400*220***
0.039	13	6	12	0.6	10	/	RPS3930400*220***
0.047	13	6	12	0.6	10	/	RPS4730400*220***
0.033	17.5	5	11	0.8	15	/	RPS3330400*230***
0.039	17.5	5	11	0.8	15	/	RPS3930400*230***
0.047	17.5	5	11	0.8	15	/	RPS4730400*230***
0.056	17.5	5	11	0.8	15	/	RPS5630400*230***
0.068	17.5	6	12	0.8	15	/	RPS6830400*230***
0.082	17.5	6	12	0.8	15	/	RPS8230400*230***
0.10	17.5	7.5	13.5	0.8	15	/	RPS1040400*230***
0.12	17.5	7.5	13.5	0.8	15	/	RPS1240400*230***
0.15	17.5	8.5	14.5	0.8	15	/	RPS1540400*230***
0.18	17.5	10	16	0.8	15	/	RPS1840400*230***
0.22	17.5	10	16	0.8	15	/	RPS2240400*230***
0.27	17.5	11	19	0.8	15	/	RPS2740400*230***
0.12	26.5	6	15	0.8	22.5	/	RPS1240400*240***
0.15	26.5	6	15	0.8	22.5	/	RPS1540400*240***
0.18	26.5	6	15	0.8	22.5	/	RPS1840400*240***
0.22	26.5	7	16	0.8	22.5	/	RPS2240400*240***



规格表 Specification table

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD	P1	P2	
<b>400VDC(250Vac)</b>							
0.27	26.5	8.5	17	0.8	22.5	/	RPS2740400*240***
0.33	26.5	8.5	17	0.8	22.5	/	RPS3340400*240***
0.39	26.5	10	18.5	0.8	22.5	/	RPS3940400*240***
0.47	26.5	10	18.5	0.8	22.5	/	RPS4740400*240***
0.56	26.5	12	22	0.8	22.5	/	RPS5640400*240***
0.68	26.5	12	22	0.8	22.5	/	RPS6840400*240***
0.39	32	9	18	0.8	27.5	/	RPS3940400*250***
0.47	32	9	18	0.8	27.5	/	RPS4740400*250***
0.56	32	11	20	0.8	27.5	/	RPS5640400*250***
0.68	32	11	20	0.8	27.5	/	RPS6840400*250***
0.82	32	13	22	0.8	27.5	/	RPS8240400*250***
1.0	32	15	24.5	0.8	27.5	/	RPS1050400*250***
1.2	32	15	24.5	0.8	27.5	/	RPS1250400*250***
1.5	32	18	33	0.8	27.5	/	RPS1550400*250***
1.8	32	18	33	0.8	27.5	/	RPS1850400*250***
<b>630VDC(400Vac)</b>							
0.022	17.5	5	11	0.8	15	/	RPS2230630*230***
0.027	17.5	5	11	0.8	15	/	RPS2730630*230***
0.039	17.5	6	12	0.8	15	/	RPS3930630*230***
0.047	17.5	6	12	0.8	15	/	RPS4730630*230***
0.056	17.5	6	12	0.8	15	/	RPS5630630*230***
0.068	17.5	6	12	0.8	15	/	RPS6830630*230***
0.082	17.5	6	12	0.8	15	/	RPS8230630*230***
0.10	17.5	7	16	0.8	15	/	RPS1040630*230***
0.12	17.5	7	16	0.8	15	/	RPS1240630*230***
0.15	17.5	8.5	14.5	0.8	15	/	RPS1540630*230***
0.18	17.5	10	16	0.8	15	/	RPS1840630*230***
0.22	17.5	10	16	0.8	15	/	RPS2240630*230***
0.27	17.5	11	19	0.8	15	/	RPS2740630*230***
0.12	26.5	6	15	0.8	22.5	/	RPS1240630*240***
0.15	26.5	6	15	0.8	22.5	/	RPS1540630*240***
0.18	26.5	6	15	0.8	22.5	/	RPS1840630*240***
0.22	26.5	7	16	0.8	22.5	/	RPS2240630*240***
0.27	26.5	7	16	0.8	22.5	/	RPS2740630*240***
0.33	26.5	12	22	0.8	22.5	/	RPS3340630*240***
0.39	26.5	12	22	0.8	22.5	/	RPS3940630*240***
0.47	26.5	13	22	0.8	22.5	/	RPS4740630*240***
0.56	26.5	15	28	0.8	27.5	/	RPS5640630*240***
0.68	26.5	15	28	0.8	27.5	/	RPS6840630*240***
0.82	26.5	18	35.5	1.0	37.5	/	RPS8240630*240***
1.0	26.5	24.5	35.5	1.0	37.5	/	RPS1050630*240***
1.2	26.5	24.5	35.5	1.0	37.5	/	RPS1250630*240***
1.5	26.5	33.5	35.5	1.0	37.5	/	RPS1550630*240***
2	26.5	33	35.5	1.2	37.5	/	RPS2050630*240***
2.5	26.5	33	45	1.0	37.5	/	RPS2550630*461***
3	26.5	33	45	1.0	37.5	/	RPS3050630*461***
3	57.5	30	45	1.2	52.5	/	RPS3050630*472***
3.5	42.5	33	45	1.2	52.5	/	RPS3550630*471***
3.5	57.5	30	45	1.2	52.5	/	RPS3550630*472***
4.7	57.5	35	50	1.0	52.5	/	RPS4750630*471***
5.6	57.5	38	54	1.0	52.5	/	RPS5650630*471***
6	57.5	38	54	1.2	52.5	/	RPS6050630*471***
6.8	57.5	42.5	56	1.2	52.5	/	RPS6850630*471***
8	57.5	42.5	56	1.2	52.5	/	RPS8050630*471***
<b>1000VDC(600Vac)</b>							

# Resonance / Snubber RMJ-PS series

规格表 Specification table

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD	P1	P2	
1000VDC(600Vac)							
0.0056	13	6	12	0.6	10	/	RPS5621000*220***
0.0068	13	6	12	0.6	10	/	RPS6821000*220***
0.0082	17.5	5	11	0.8	15	/	RPS8221000*230***
0.010	17.5	5	11	0.8	15	/	RPS1031000*230***
0.012	17.5	5	11	0.8	15	/	RPS1231000*230***
0.015	17.5	5	11	0.8	15	/	RPS1531000*230***
0.018	17.5	7.5	13.5	0.8	15	/	RPS1831000*230***
0.022	17.5	7.5	13.5	0.8	15	/	RPS2231000*230***
0.027	17.5	8.5	14.5	0.8	15	/	RPS2731000*230***
0.033	17.5	8.5	14.5	0.8	15	/	RPS3331000*230***
0.039	17.5	10	16	0.8	15	/	RPS3931000*230***
0.047	17.5	11	19	0.8	15	/	RPS4731000*230***
0.027	26.5	6	15	0.8	22.5	/	RPS2731000*240***
0.033	26.5	6	15	0.8	22.5	/	RPS3331000*240***
0.039	26.5	6	15	0.8	22.5	/	RPS3931000*240***
0.047	26.5	7	16	0.8	22.5	/	RPS4731000*240***
0.056	26.5	7	16	0.8	22.5	/	RPS5631000*240***
0.068	26.5	8.5	17	0.8	22.5	/	RPS6831000*240***
0.082	26.5	10	18.5	0.8	22.5	/	RPS8231000*240***
0.0010	17.5	5	11	0.8	15	/	RPS1021600*230***
0.0012	17.5	5	11	0.8	15	/	RPS1221600*230***
0.0015	17.5	5	11	0.8	15	/	RPS1521600*230***
0.0018	17.5	5	11	0.8	15	/	RPS1821600*230***
0.0022	17.5	5	11	0.8	15	/	RPS2221600*230***
0.0027	17.5	5	11	0.8	15	/	RPS2721600*230***
0.0033	17.5	5	11	0.8	15	/	RPS3321600*230***
0.0039	17.5	5	11	0.8	15	/	RPS3921600*230***
0.0047	17.5	5	11	0.8	15	/	RPS4721600*230***
0.0056	17.5	5	11	0.8	15	/	RPS5621600*230***
0.0068	17.5	5	11	0.8	15	/	RPS6821600*230***
0.0082	17.5	6	12	0.8	15	/	RPS8221600*230***
0.010	17.5	6	12	0.8	15	/	RPS1031600*230***

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD	P1	P2	
1000VDC(600Vac)							
0.39	32	18	33	0.8	27.5	/	RPS3941000*250***
0.47	32	18	33	0.8	27.5	/	RPS4741000*250***
0.22	42.5	14	28	1.0	37.5	/	RPS2241000*260***
0.47	42.5	24.5	27.5	1.2	37.5	/	RPS4741000*260***
0.68	42.5	24.5	27.5	1.0	37.5	20.3	RPS6841000*462***
1	42.5	33.5	35.5	1.2	37.5	20.3	RPS1051000*462***
1.5	42.5	33	45	1.0	37.5	10.2	RPS1551000*461***
2	42.5	33	45	1.0	37.5	10.2	RPS2051000*461***
2.5	57.5	30	45	1.2	52.5	20.3	RPS2551000*472***
3	57.5	35	50	1.2	52.5	20.3	RPS3051000*472***
3.3	57.5	35	50	1.0	52.5	10.2	RPS3351000*471***
3.5	57.5	38	54	1.0	52.5	10.2	RPS3551000*471***
4	57.5	38	54	1.2	52.5	10.2	RPS4051000*471***
4.7	57.5	42.5	56	1.2	52.5	10.2	RPS4751000*471***
5.6	57.5	42.5	56	1.2	52.5	10.2	RPS5651000*471***
1600VDC(650Vac)							
0.0010	17.5	5	11	0.8	15	/	RPS1021600*230***
0.0012	17.5	5	11	0.8	15	/	RPS1221600*230***
0.0015	17.5	5	11	0.8	15	/	RPS1521600*230***
0.0018	17.5	5	11	0.8	15	/	RPS1821600*230***
0.0022	17.5	5	11	0.8	15	/	RPS2221600*230***
0.0027	17.5	5	11	0.8	15	/	RPS2721600*230***
0.0033	17.5	6	12	0.8	15	/	RPS3321600*230***
0.0039	17.5	6	12	0.8	15	/	RPS3921600*230***
0.0047	17.5	5	11	0.8	15	/	RPS4721600*230***
0.0056	17.5	5	11	0.8	15	/	RPS5621600*230***
0.0068	17.5	5	11	0.8	15	/	RPS6821600*230***
0.0082	17.5	6	12	0.8	15	/	RPS8221600*230***
0.010	17.5	6	12	0.8	15	/	RPS1031600*230***

规格表 Specification table

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD	P1	P2	
1600VDC(650Vac)							
0.012	17.5	7.5	13.5	0.8	15	/	RPS12311600*230***
0.015	17.5	7.5	13.5	0.8	15	/	RPS1531600*230***
0.018	17.5	8.5	14.5	0.8	15	/	RPS1831600*230***
0.022	17.5	8.5	14.5	0.8	15	/	RPS2231600*230***
0.027	17.5	10	16	0.8	15	/	RPS2731600*230***
0.033	17.5	11	19	0.8	15	/	RPS3331600*230***
0.039	17.5	11	19	0.8	15	/	RPS3931600*230***
0.047	17.5	11	20	0.8	15	/	RPS4731600*230***
0.056	17.5	11	20	0.8	15	/	RPS5631600*230***
0.068	17.5	12	22	0.8	15	/	RPS6831600*230***
0.082	17.5	12	22	0.8	15	/	RPS8231600*230***
0.099	17.5	12	22	0.8	15	/	RPS10221600*230***
0.010	17.5	5	11	0.8	15	/	RPS1222000*230***
0.015	17.5	5	11	0.8	15	/	RPS1522000*230***
0.018	17.5	5	11	0.8	15	/	RPS1822000*230***
0.022	17.5	5	11	0.8	15	/	RPS2222000*230***
0.027	17.5	5	11	0.8	15	/	RPS2722000*230***</

# Resonance / Snubber RMJ-PS series

规格表 Specification table

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD (mm)	P1 (mm)	P2 (mm)	
2000VDC(700Vac)							
0.0010	26.5	6	15	0.8	22.5	/	RPS1022000*240***
0.0012	26.5	6	15	0.8	22.5	/	RPS1222000*240***
0.0015	26.5	6	15	0.8	22.5	/	RPS1522000*240***
0.0018	26.5	6	15	0.8	22.5	/	RPS1822000*240***
0.0022	26.5	6	15	0.8	22.5	/	RPS2222000*240***
0.0027	26.5	6	15	0.8	22.5	/	RPS2722000*240***
0.0033	26.5	6	15	0.8	22.5	/	RPS3322000*240***
0.0039	26.5	6	15	0.8	22.5	/	RPS3922000*240***
0.0047	26.5	6	15	0.8	22.5	/	RPS4722000*240***
0.0056	26.5	6	15	0.8	22.5	/	RPS5622000*240***
0.0068	26.5	6	15	0.8	22.5	/	RPS6822000*240***
0.0082	26.5	6	15	0.8	22.5	/	RPS8222000*240***
0.010	26.5	6	15	0.8	22.5	/	RPS1032000*240***
0.012	26.5	6	15	0.8	22.5	/	RPS1232000*240***
0.015	26.5	7	16	0.8	22.5	/	RPS1532000*240***
0.018	26.5	7	16	0.8	22.5	/	RPS1832000*240***
0.022	26.5	8.5	17	0.8	22.5	/	RPS2232000*240***
0.027	26.5	10	18.5	0.8	22.5	/	RPS2732000*240***
0.033	26.5	10	18.5	0.8	22.5	/	RPS3332000*240***
0.039	26.5	12	22	0.8	22.5	/	RPS3932000*240***
0.047	26.5	12	22	0.8	22.5	/	RPS4732000*240***
0.056	32	9	18	0.8	27.5	/	RPS2232000*250***
0.068	32	9	18	0.8	27.5	/	RPS2732000*250***
0.082	32	9	18	0.8	27.5	/	RPS3332000*250***
0.039	32	11	20	0.8	27.5	/	RPS3932000*250***
0.047	32	11	20	0.8	27.5	/	RPS4732000*250***
0.056	32	13	22	0.8	27.5	/	RPS5632000*250***
0.068	32	13	22	0.8	27.5	/	RPS6832000*250***
0.082	32	15	24.5	0.8	27.5	/	RPS8232000*250***

续上表

C <sub>N</sub> (μF)	尺寸/Dimension (mm)						Part number
	W (mm)	T (mm)	H (mm)	φD (mm)	P1 (mm)	P2 (mm)	
2000VDC(700Vac)							
0.10	32	14	28	0.8	27.5	/	RPS1042000*250***
0.12	32	18	33	0.8	27.5	/	RPS1242000*250***
0.15	32	18	33	0.8	27.5	/	RPS1542000*250***
0.22	42.5	24.5	27.5	1.2	37.5	/	RPS2242000*260***
0.33	42.5	33.5	35.5	1	37.5	20.3	RPS3342000*462***
0.47	42.5	33.5	35.5	1	37.5	20.3	RPS4742000*462***
0.68	42.5	33	45	1	37.5	10.2	RPS6842000*461***
0.68	57.5	30	45	1.2	52.5	20.3	RPS6842000*472***
0.82	42.5	33	45	1	37.5	10.2	RPS6842000*461***
1	57.5	30	45	1.2	52.5	20.3	RPS1052000*472***
1.5	57.5	35	50	1	52.5	10.2	RPS1552000*471***
2	57.5	38	54	1.2	52.5	10.2	RPS2052000*471***
2.2	57.5	42.5	56	1.2	52.5	10.2	RPS2252000*471***

# 高压谐振薄膜电容器 RMJ-PC series High voltage resonance film capacitor

铜螺母引出，体积小，安装简单方便  
Copper nut leads,small size,easy installation



高频大电流承受能力  
High-frequency current capacity

塑料外壳封装，干式树脂灌注  
Plastic packaging,sealed with resin

高脉冲电流，高dv/dt承受能力  
High pulse current,  
high dv/dt withstand capability

自感(ESL)小，等效串联电阻(ESR)小  
Low ESL and ESR

## 应用 Application

- 广泛应用于电力电子设备中的串/并联谐振电路。
- 电焊机，电源，感应加热设备等谐振场合。

## Application

- Widely used in power electronic devices in series/parallel resonant circuit.
- Welding,power supplies, induction heating equipment resonance occasions.

## 性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature,Top, max : +105°C Upper category temperature: + 85°C Lower category temperature : - 40°C
容量范围( C <sub>N</sub> ) / Capacitance range	1μF~8μF
额定电压( U <sub>N</sub> ) / Rated voltage	1200V.DC - 2000V.DC
容量偏差 / Cap.tol	±5%(J) ; ±10%(K)
耐电压 / Withstand voltage	1.5U <sub>N</sub> / 60s
损耗角正切 / Dissipation factor	tgδ≤0.001 f=1kHz
绝缘电阻/Insulation resistance	R <sub>s</sub> ×C≥5000s (at20°C 100V.DC 60s)
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet



# 高压谐振薄膜电容器 RMJ-PC series

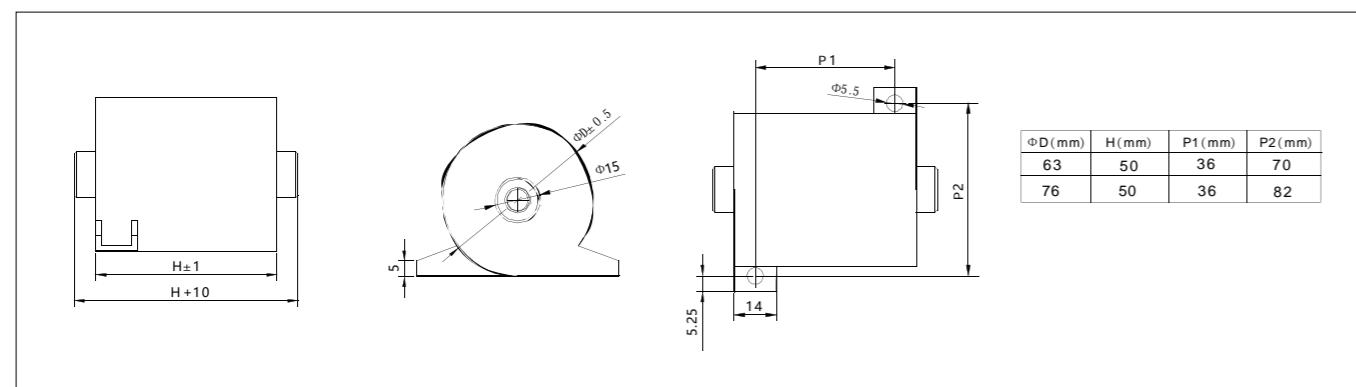
## High voltage resonance film capacitor

### 性能参数 Technical data

有效电流 / Irms	具体见规格表/See the specification sheet
预期寿命 / Life expectancy	100000h ( $U_N$ ; $\theta_{hotspot} \leq 85^\circ\text{C}$ )
引用标准 / Reference standard	IEC61071

续上表

### 外形图 The contour map



### 产品编码说明 Part number system

Model			Capacitance			U <sub>N</sub> (DC)				Cap. tol	Dimension	Lead	Internal feature code		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
R	P	C	4	0	5	1	2	0	0	J	1	A	0	1	
1	~	3	位:	型号代码/Model											
4	~	6	位:	标称容量/Nominal Capacity											
				e.g. 405=40×10 <sup>5</sup> pF=4μF											
7	~	10	位:	额定电压 (直流) / U <sub>N</sub> (DC)											
				e.g. 1200=1200V.DC											
	11	位:	容量偏差等级/Capacitance Tolerance												
			±5% (J) ±10% (K)												
	12	位:	尺寸代码/Dimension												
			1: 63×50												
			2: 76×50												
	13	位:	引出形式/Lead												
			A: M6×10螺母引出/Screw nut												
			B: M8×10螺母引出/Screw nut												
14	~	15	位:	内部特征码/Internal feature code											

### 规格表 Specification table

$C_N$ ( $\mu\text{F}$ )	$\phi D$ (mm)	H (mm)	ESL (nH)	$dv/dt$ (V/ $\mu\text{s}$ )	$I_p$ (KA)	$I_{rms}$ @100kHz 40°C (A)	ESR @100kHz (mΩ)	Part number
$U_N$ 1200V.DC Urms 500V.AC								
2	63	52	20	500	1.0	30	3.2	RPC2051200*1***
3	63	50	22	500	1.5	35	3	RPC3051200*1***
$U_N$ 1600V.DC Urms 600V.AC								
4	63	50	22	400	1.6	45	2.8	RPC4051200*1***
5	63	50	23	400	2.0	50	2.5	RPC5051200*1***
6	76	50	25	350	2.1	60	2	RPC6051200*2***
7	76	50	25	300	2.1	65	1.5	RPC7051200*2***
$U_N$ 2000V.DC Urms 700V.AC								
2	63	50	20	700	1.4	30	3.2	RPC2051600*1***
3	63	50	22	600	1.8	35	3	RPC3051600*1***
4	63	50	22	550	2.2	45	2.8	RPC4051600*1***
5	76	50	23	500	2.5	55	2.3	RPC5051600*2***
6	76	50	25	450	2.7	65	2.2	RPC6051600*2***
$U_N$ 2500V.DC Urms 800V.AC								
2	63	50	20	800	1.6	50	3	RPC2052000*1***
3	63	50	22	700	2.1	55	2.8	RPC3052000*1***
4	76	50	22	600	2.4	65	2.5	RPC4052000*2***



# AC - filter 金属化薄膜电容器 AKMJ - S series

## Metalized film capacitor



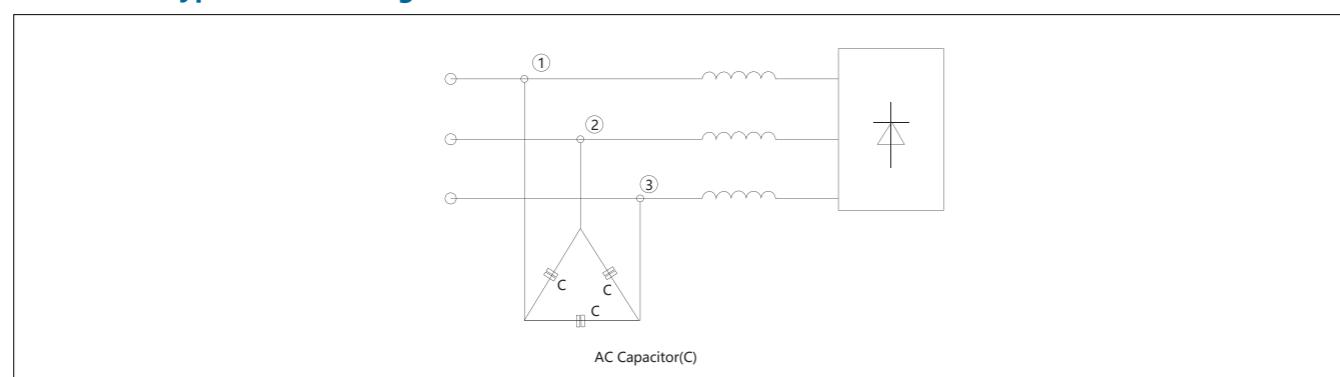
### 应用

- 广泛应用于电力电子设备中作交流滤波用。
- 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。

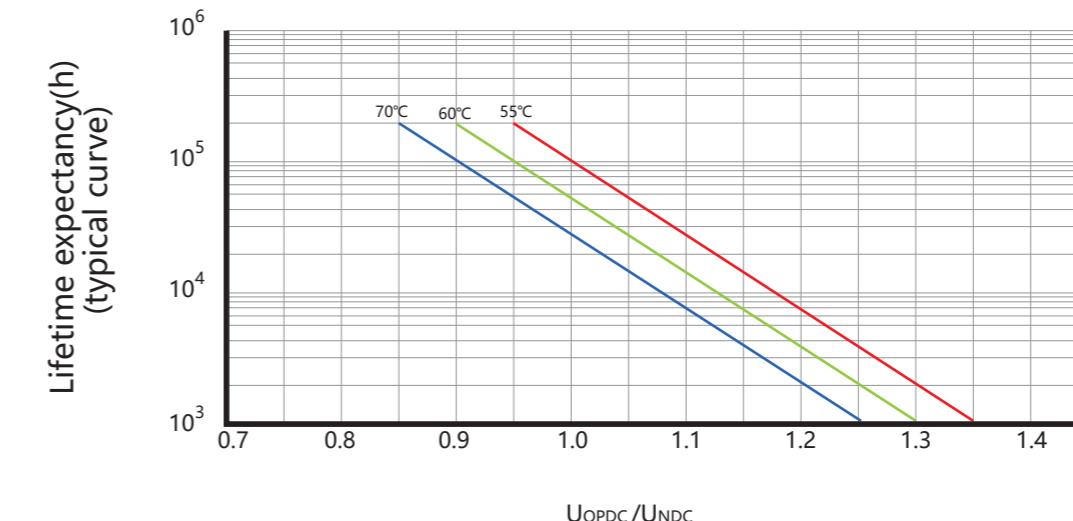
### Application

- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply, inverter and other equipment for the AC filter, harmonics and improve power factor control.

### 典型线路图 Typical circuit diagram



预期寿命曲线图 Life expectancy in the graph

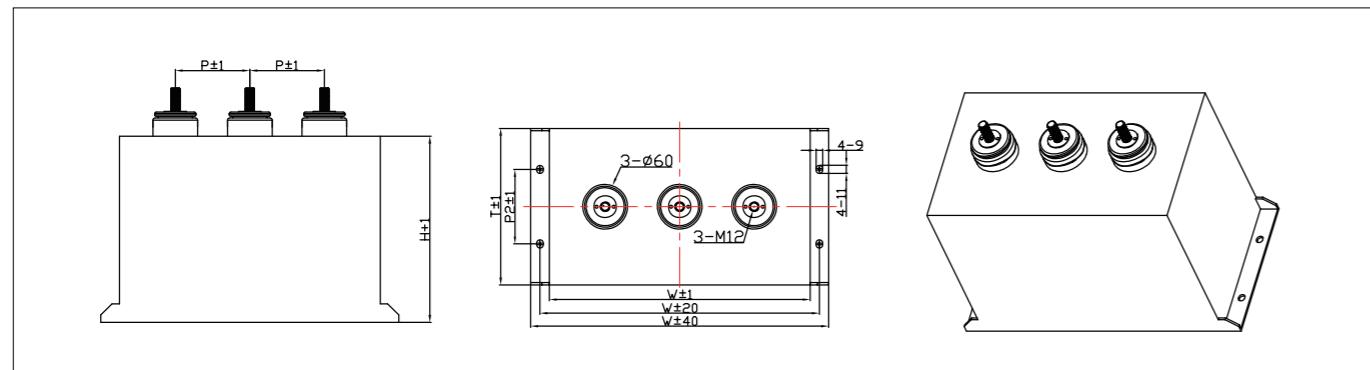


### 性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature.,Top,max : + 85°C Upper category temperature : +55°C Lower category temperature: -40°C	
容量范围 ( $C_N$ ) / Capacitance range	3×40μF ~ 3×500μF	
额定电压 ( $U_N$ ) / Rated voltage	450V.AC/50Hz ~ 1140V.AC/50Hz	
容量偏差 / Cap.tol	±5% (J)	
耐电压 / Withstand voltage	Vt - t	2.15 $U_N$ /10s
	Vt - c	1000 + 2× $U_N$ V.AC 60s (min3000V.AC)
	1.1 $U_N$ ( 30% of on - load - dur. )	
	1.15 $U_N$ ( 30min / day )	
	1.2 $U_N$ ( 5min / day )	
	1.3 $U_N$ ( 1min / day )	
	1.5 $U_N$ ( 100ms every time,1000times during the lifetime )	
过电压/Over voltage		
损耗角正切 / Dissipation factor	tgδ≤ 0.002 f = 100Hz 介质损耗 tgδ₀≤0.0002	
绝缘电阻 / Insulation resistance	(内置放电电阻) /(Built-in discharge resistor)	
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet	
有效电流 / Irms	具体见规格表/See the specification sheet	
杂散电感 / ESL	< 100nH	
阻燃性 / Flame retardation	UL94V - 0	
最高使用海拔高度 / Maximum altitude	2000m Derating should be considered when the altitude is between 2000m -5000m. (For each increase of 1000m, voltage and current will be reduced by 10%)	
预期寿命 / Life expectancy	100000h ( $U_N$ ; $\Theta_{hotspot}\leq 55^\circ\text{C}$ )	
引用标准 / Reference standard	IEC61071; IEC60831	

# AC - filter 金属化薄膜电容器 AKMJ - S series Metalized film capacitor

外形图 The contour map



规格表 Specification table

$C_N$ ( $\mu F$ )	W (mm)	T (mm)	H (mm)	dv/dt (V/ $\mu s$ )	I <sub>p</sub> (A)	I <sub>rms</sub> 50°C (A)	ESR 1kHz (m $\Omega$ )	R <sub>th</sub> (K/W)	Weight (kg)
<b><math>U_N</math> 400V.AC 50Hz</b>									
3×200	225	120	170	50	10.0	3×70	3×0.95	1.1	7
3×300	225	120	235	40	12.0	3×90	3×0.85	0.8	9
3×400	295	120	235	35	14.0	3×120	3×0.80	0.7	12
3×500	365	120	235	30	15.0	3×160	3×0.78	0.6	15
<b><math>U_N</math> 500V.AC 50Hz</b>									
3×120	225	120	170	60	7.2	3×50	3×1.2	1.1	7
3×180	225	120	235	50	9.0	3×70	3×1.05	0.8	9
3×240	295	120	235	45	10.8	3×100	3×1.0	0.7	12
3×300	365	120	235	40	12.0	3×120	3×0.9	0.6	15
<b><math>U_N</math> 690V.AC 50Hz</b>									
3×50	225	120	170	100	5.0	3×50	3×2.3	1.1	7
3×75	225	120	235	90	6.8	3×70	3×2.1	0.8	9
3×100	295	120	235	80	8.0	3×100	3×1.6	0.7	12
3×125	365	120	235	80	10.0	3×120	3×1.3	0.6	15
<b><math>U_N</math> 1140V.AC 50Hz</b>									
3×42	340	175	200	120	5.0	3×80	3×3.3	0.6	17.3
3×60	420	175	250	100	6.0	3×100	3×2.8	0.5	26

# AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor

铜螺母 / 螺杆引出, 塑料定位盖

绝缘, 安装简单方便

Copper nut / screw leads, insulated  
plastic cover positioning,easy  
installation

耐压高, 具有自愈性

Resistance to high voltage, with  
self-healing

铝圆外壳封装, 干式树脂灌注  
Aluminum round housing package,  
sealed with resin

高纹波电流, 高dv/dt承受能力  
High ripple current high dv/dt  
withstand capability



容量大, 体积小  
Large capacity, small size

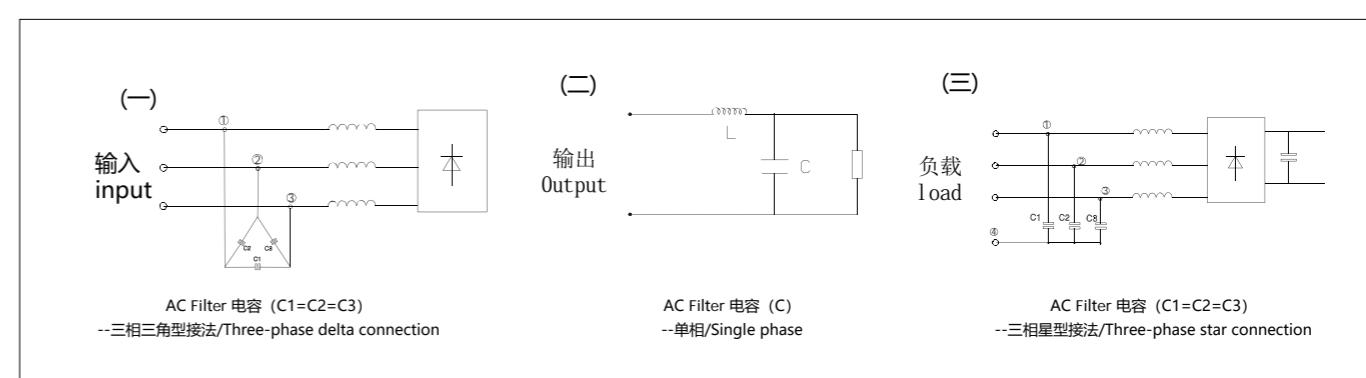
## 应用

- 广泛应用于电力电子设备中作交流滤波用。
- 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。

## Application

- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply,inverter and other equipment for the AC filter,harmonics and improve power factor control.

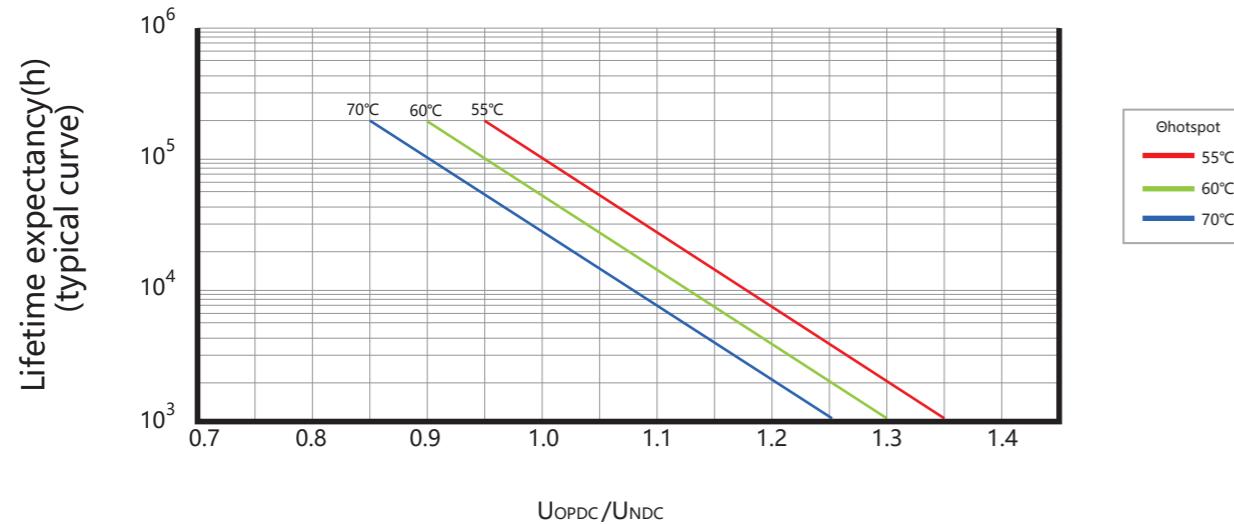
## 典型线路图 Typical circuit diagram



# AC - filter 金属化薄膜电容器 AKMJ - MC series

## Metalized film capacitor

预期寿命曲线图 Life expectancy in the graph



性能参数 Technical data

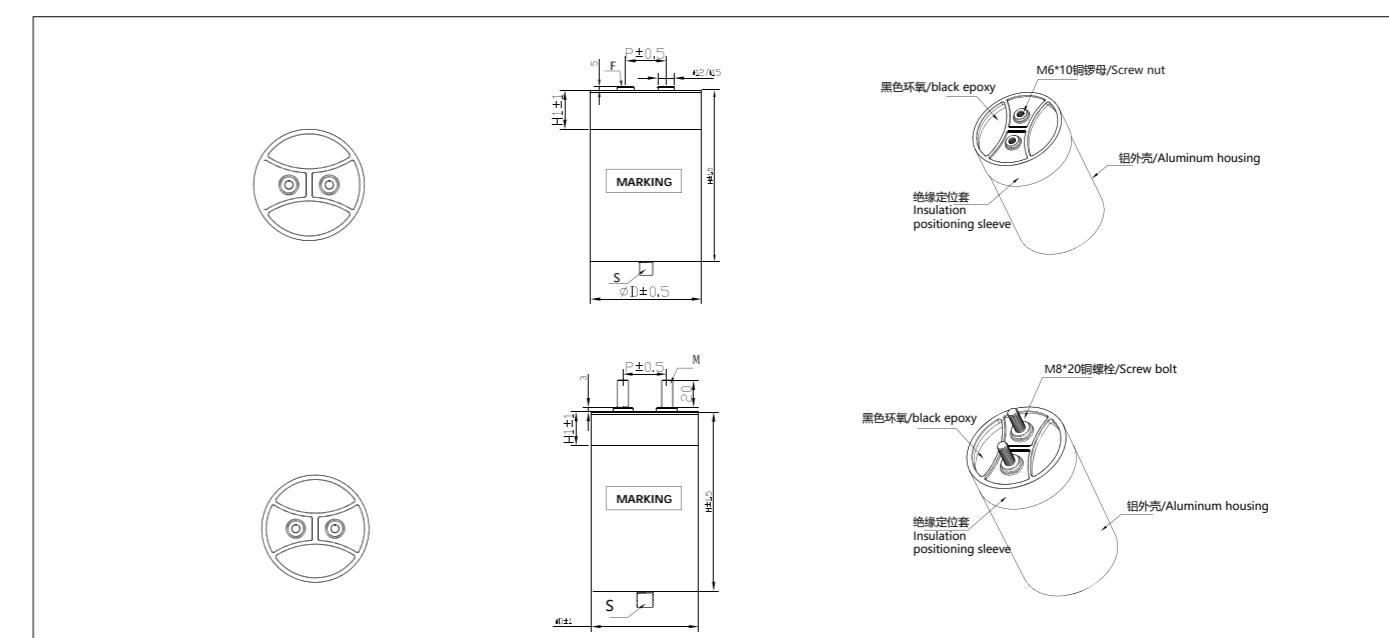
工作温度范围 / Operating temperature range	Max.Operating temperature,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperature : - 40°C	
容量范围( C <sub>N</sub> ) / Capacitance range	single phase	20μF - 500μF
	three phase	3×40μF - 3×200μF
额定电压(U <sub>N</sub> ) / Rated voltage	330V. AC / 50Hz - 1140V. AC / 50Hz	
容量偏差 / Cap.tol	±5% ( J ) ;±10% ( K )	
耐电压 / Withstand voltage	v <sub>t</sub> - t	2.15U <sub>N</sub> / 10s
	v <sub>t</sub> - c	1000 + 2×U <sub>N</sub> V. AC 60s ( min3000V. AC )
过电压 / Over voltage	1.1U <sub>N</sub> ( 30% of on - load - dur. ) 1.15U <sub>N</sub> ( 30min / day ) 1.2U <sub>N</sub> ( 5min / day ) 1.3U <sub>N</sub> ( 1min / day ) 1.5U <sub>N</sub> ( 100ms every time,1000 times during the lifetime )	
	tgδ≤0.002 f = 100Hz 介质损耗 tgδ <sub>0</sub> ≤ 0.0002	
	Rs×C≥ 10000s ( at20°C 100V.DC )	
	具体见规格表/See the specification sheet	
	具体见规格表/See the specification sheet	
有效电流 / Irms	UL94V - 0	
阻燃性 / Flame retardation	2000m	
最高使用海拔高度 / Maximum altitude	Derating should be considered when the altitude is between 2000m -5000m. (For each increase of 1000m, voltage and current will be reduced by 10%)	
预期寿命 / Life expectancy	100000h ( U <sub>N</sub> ; θ <sub>hotspot</sub> ≤55°C )	
引用标准 / Reference standard	IEC61071 ; IEC60831	



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单相交流电容外形图 The contour map

θD( mm )	P( mm )	H1( mm )	S	F	M
76	32	20	M12 x 16	M6 x 10	M8 x 20
86	32	20	M12 x 16	M6 x 10	M8 x 20
96	45	20	M12 x 16	M6 x 10	M8 x 20
116	50	30	M12 x 16	M6 x 10	M8 x 20
136	50	30	M16 x 25	M6 x 10	M8 x 20



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# AC - filter 金属化薄膜电容器 AKMJ - MC series

## Metalized film capacitor (Single phase)

铜螺母 / 螺杆引出, 塑料定位盖  
绝缘, 安装简单方便  
Copper nut / screw leads, insulated  
plastic cover positioning,easy  
installation



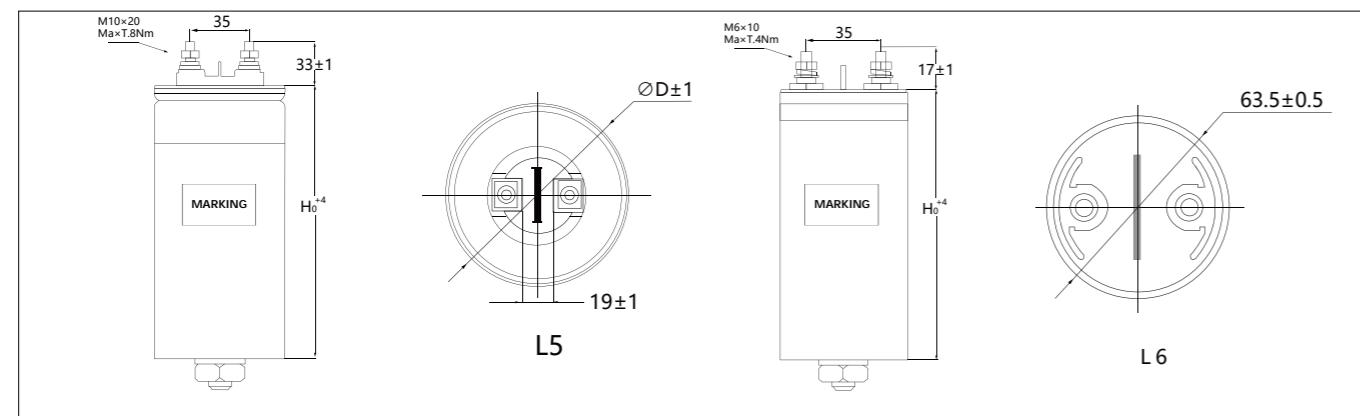
### 应用

- 广泛应用于电力电子设备中作交流滤波用。
- 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。

### Application

- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply, inverter and other equipment for the AC filter, harmonics and improve power factor control.

### 典型线路图 Typical circuit diagram



### 性能参数 Technical data

工作温度范围 / Operating temperature range	Max.Operating temperature,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperatu re: - 40°C	
容量范围( C <sub>N</sub> ) / Capacitance range	20μF - 200μF	
额定电压(U <sub>N</sub> ) / Rated voltage	200V.AC~1000V.AC	
容量偏差 / Cap.tol	±5% ( J ) ; ±10% ( K )	
耐电压 / Withstand voltage	v <sub>t</sub> - t	1.5Urms / 10s
	v <sub>t</sub> - c	3000V.AC / 2S,50/60Hz
过电压 / Over voltage	1.1U <sub>rms</sub> ( 30% of on - load - dur. ) 1.15U <sub>rms</sub> ( 30min / day ) 1.2U <sub>rms</sub> ( 5min / day ) 1.3U <sub>rms</sub> ( 1min / day )	
损耗角正切 / Dissipation factor	tgδ≤0.002 f = 100Hz	
自感 / Self inductance	< 70 nH per mm of lead spacing	
绝缘电阻 / Insulation resistance	Rs×C≥ 10000s ( at20°C 100V.DC )	
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet	
有效电流 / I <sub>rms</sub>	具体见规格表/See the specification sheet	
阻燃性 / Flame retardation	UL94V -0	
寿命预期/ Life time expectancy	Useful life time: > 100000h at U <sub>NDc</sub> and 70°C FIT: < 10×10 <sup>9</sup> /h(10 per 10 <sup>9</sup> component h) at 0.5×U <sub>NDc</sub> ,40°C	
电解质/ Dielectric	Metallized polypropylene	
结构/ Construction	Filling with inert gas/ silicone oil, Non-inductive, over-pressure	
外壳/ Case	Aluminum case	
引用标准/ Reference standard	IEC61071,GB17702,UL810	

### 规格表 Specification table

C <sub>N</sub> (μF)	φD (mm)	H (mm)	I <sub>max</sub> (A)	I <sub>p</sub> (A)	I <sub>s</sub> (A)	ESR (mΩ)	R <sub>th</sub> (K/W)	P (mm)
<b>Urms=300V.AC,U<sub>N</sub>=420V.AC</b>								
150	76	175	29	1270	3810	2.83	5.21	35
200	76	235	28	1300	3900	2.2	6.63	35
<b>Urms=330V.AC,U<sub>N</sub>=460V.AC</b>								
80	76	105	20	890	2670	2.45	7.38	35
100	76	105	26	980	2940	2.68	6.52	35
200	86	175	33	1750	5250	1.5	5	35
<b>Urms=400V.AC,U<sub>N</sub>=560V.AC</b>								
50	76	110	29	785	2355	3.5	9.53	35
100	86	150	41	2648	7944	2.82	6.26	35
200	86	240	49	3467	10401	2.53	4.89	35
350	116	210	68	3200	9600	1	4.2	35
<b>Urms=480V.AC,U<sub>N</sub>=680V.AC</b>								
70	76	145	50	4000	12000	2	6.23	35
100	96	125	80	3500	10500	2	3.9	35
160	86	200	36	3000	9000	1.5	4.8	35
250	96	240	55	2700	8100	1.21	4.25	35
300	86	285	78	2500	7500	1.2	3.85	35



# AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor (Single phase)

规格表 Specification table

$C_N$ ( $\mu F$ )	$\phi D$ (mm)	H (mm)	$I_{max}$ (A)	$I_p$ (A)	$I_s$ (A)	ESR (m $\Omega$ )	$R_{th}$ (K/W)	P (mm)
Urms=500V.AC,UN=700V.AC								
33	76	115	29	752	2256	3.86	9.05	35
60	76	150	33	953	2859	3.72	7.23	35
100	76	200	37	1047	3141	3.05	6.78	35
133	86	200	40	1392	4176	2.87	6.41	35
200	96	220	45	3800	11400	1.25	3.89	35
250	96	240	50	4000	12000	1.15	3.56	35
Urms=550V.AC,UN=780V.AC								
22	63.5	90	24	500	1500	4.01	12.4	35
50	63.5	140	34	980	2940	3.58	7.1	35
100	76	200	50	3500	10500	1.6	6.84	35
133	86	200	55	4000	12000	1.5	6.84	35
Urms=600V.AC,UN=850V.AC								
150	96	240	52	3000	9000	2.1	3.87	35
200	116	240	55	3200	9600	1.89	3.12	35
Urms=640V.AC,UN=900V.AC								
15	63.5	90	22	350	1050	5.7	10.74	35
2	76	130	29	680	2040	4.28	7.93	35
33	76	130	33	800	2400	3.56	7.39	35
68	86	240	45	1496	4488	2.56	5.61	35
Urms=850V.AC,UN=1200V.AC								
50	96	240	62	2700	8100	1	4.05	35
Urms=1000V.AC,UN=1400V.AC								
30	86	175	38	650	1950	3.68	5.44	35
Urms=1400V.AC,UN=1900V.AC								
15	116	150	35	740	2220	2.5	5.21	35

# AC - filter 金属化薄膜电容器 AKMJ - MC series Metalized film capacitor (Three phase)



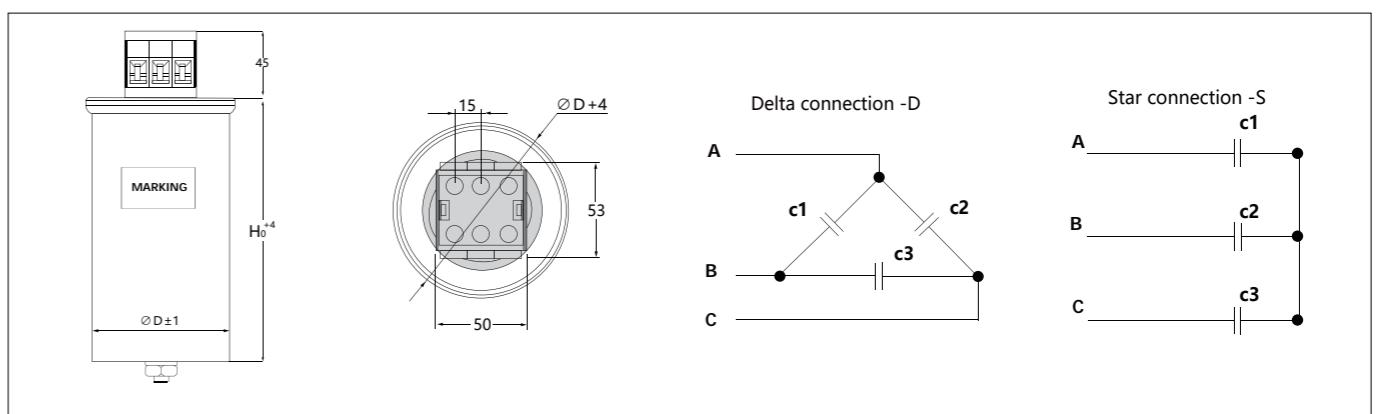
## 应用 Application

- 广泛应用于电力电子设备中作交流滤波用。
- 在大功率UPS, 开关电源, 变频器等设备中作交流滤波, 治理谐波及提高功率因数。

## Application

- Widely used in power electronic equipment used for the AC filter.
- In the high-power UPS, switching power supply, inverter and other equipment for the AC filter; harmonics and improve power factor control.

## 典型线路图 Typical circuit diagram



# AC - filter 金属化薄膜电容器 AKMJ - MC series

## Metalized film capacitor (Three phase)

### 性能参数 Technical data

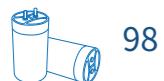
工作温度范围 / Operating temperature range	Max.Operating temperature,Top,max : + 85°C Upper category temperature : + 70°C Lower category temperatu re:- 40°C
容量范围( C <sub>N</sub> ) / Capacitance range	3*17~3*200μF
额定电压(U <sub>N</sub> ) / Rated voltage	400V.AC~850V.AC
容量偏差 / Cap.tol	±5% ( J ) ; ±10% ( K )
耐电压 / Withstand voltage	vt - t                                    1.25U <sub>N</sub> (AC) / 10s or 1.75U <sub>N</sub> (DC) / 10s vt - c                                    3000VAC / 2s, 50/60Hz
过电压 / Over voltage	1.1Urms ( 30% of on - load - dur. ) 1.15Urms ( 30min / day ) 1.2Urms ( 5min / day ) 1.3Urms ( 1min / day )
损耗角正切 / Dissipation factor	tgδ≤0.002   f = 100Hz
自感/ Self inductance	< 70 nH per mm of lead spacing
绝缘电阻 / Insulation resistance	R <sub>s</sub> ×C≥ 10000s ( at20°C 100V.DC )
耐脉冲电流冲击 / Withstand strike current	具体见规格表/See the specification sheet
有效电流 / Irms	具体见规格表/See the specification sheet
阻燃性 / Flame retardation	UL94V -0
寿命预期/ Life time expectancy	Useful life time: > 100000h at U <sub>NDC</sub> and 70°C FIT: < 10×10 <sup>9</sup> h(10 per 10 <sup>9</sup> component h) at 0.5×U <sub>NDC</sub> ,40°C
电解质/ Dielectric	Metallized polypropylene
结构/ Construction	Filling with inert gas/ silicone oil, Non-inductive, over-pressure
外壳/ Case	Aluminum case
引用标准/ Reference standard	IEC61071,UL810

### 规格表 Specification table

C <sub>N</sub> (μF)	φD (mm)	H (mm)	I <sub>max</sub> (A)	I <sub>p</sub> (A)	I <sub>s</sub> (A)	ESR (mΩ)	R <sub>th</sub> (K/W)
<b>Urms=530V.AC</b>							
3*50	86	240	32	916	2740	3*1.75	3.64
3*66	96	240	44	1547	4641	3*1.36	3.32
3*77	106	240	48	1685	5055	3*1.16	3.21
3*100	116	240	65	2000	6000	3*1.87	4.2
<b>Urms=690V.AC</b>							
3*25	86	240	29	697	2091	3*2.22	3.54
3*33.4	96	240	36	837	2511	3*1.81	3.21
3*55.7	116	240	44	1395	4185	3*1.24	3.04
3*75	136	240	53	2100	6300	3*1.31	2.87
<b>Urms=850V.AC</b>							
3*25	96	240	30	679	2037	3*1.95	3.25
3*31	106	240	36	906	2718	3*1.57	2.98
3*55.7	136	240	49	1721	5163	3*0.9	2.56
<b>Urms=1200V.AC</b>							
3*12	116	245	56	1300	3900	3*3.5	3.6
3*20	136	245	56	3300	9900	3*4	2.29

### 规格表 Specification table

C <sub>N</sub> (μF)	φD (mm)	H (mm)	I <sub>max</sub> (A)	I <sub>p</sub> (A)	I <sub>s</sub> (A)	ESR (mΩ)	R <sub>th</sub> (K/W)
<b>Urms=400V.AC</b>							
3*17	65	150	20	450	1350	3*1.25	6.89
3*30	65	175	25	890	2670	3*1.39	6.25
3*50	76	205	33	1167	3501	3*1.35	4.85
3*66	76	240	40	1336	4007	3*1.45	3.79
3*166.7	116	240	54	1458	4374	3*0.69	3.1
3*200	136	240	58	2657	7971	3*0.45	2.86
<b>Urms=450V.AC</b>							
3*50	86	205	30	802	2406	3*1.35	4.36
3*80	86	285	46	1467	4401	3*1.89	3.69
3*100	116	210	56	2040	6120	3*1.5	3.8
3*135	116	240	58	2680	8040	3*1.6	3.1
3*150	136	205	67	3060	9180	3*2.5	3.2
3*200	136	240	60	3730	11190	3*2	3.46



# AC - filter 金属化薄膜电容器 AKMJ - PS series

## Metalized film capacitor



### 应用

- 广泛应用于电力电子设备中作交流滤波用。

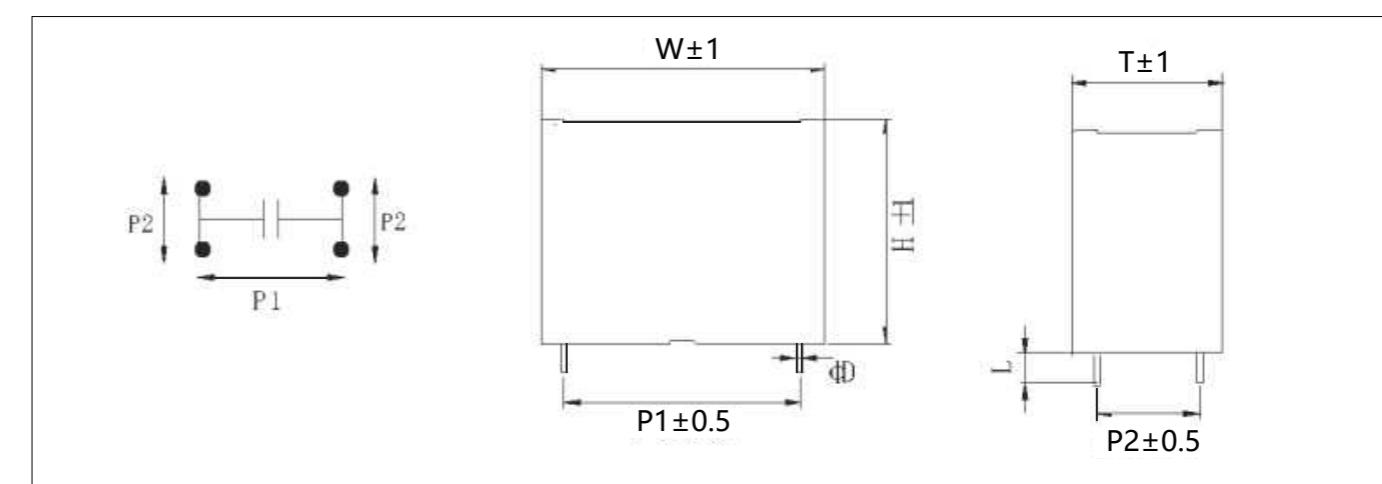
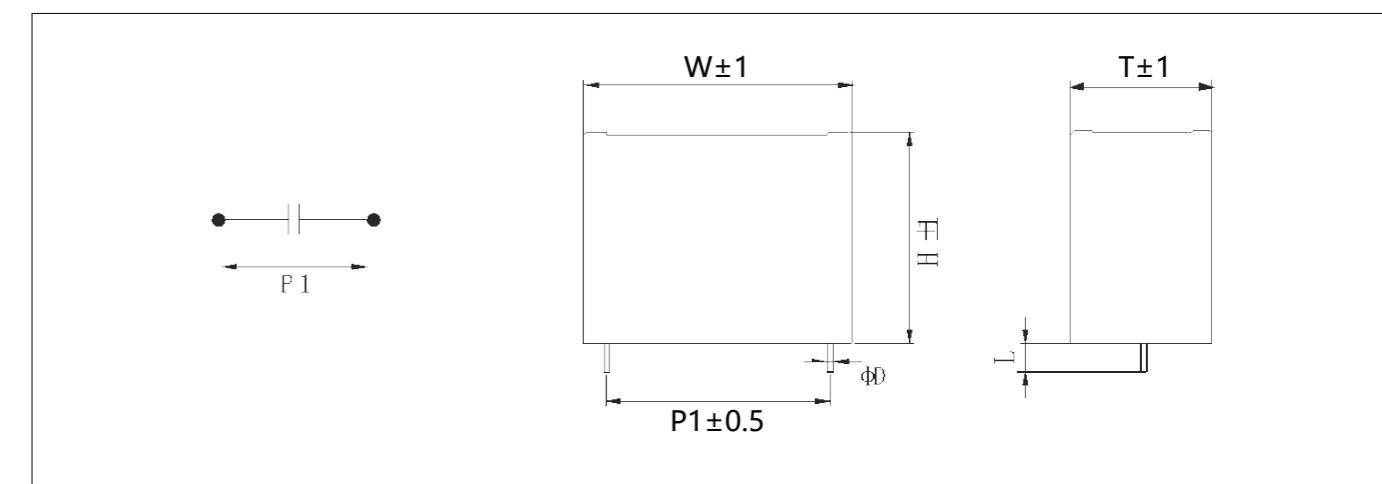
### Application

- Widely used in power electronic equipment used for the AC filter.

### 性能参数 Technical data

工作温度范围 / Operating temperature range	-40°C ~ +105°C (+85°C to +105°C: decreasing factor 1.5% per °C for Urms)						
容量范围/ Capacitance range	4μF ~ 60μF	1μF ~ 40μF	1μF ~ 28μF	0.33μF ~ 27μF			
额定均方根电压/ Rated rms voltage(Urms)	180V.AC	250V.AC	300V.AC	350V.AC			
额定交流电压/ Rated a.c. voltage( $U_N$ )	250V.AC	350V.AC	425V.AC	480V.AC			
最大连续直流电压/ Maximum continuous DC voltage	300V.DC	475V.DC	560V.DC	600V.DC			
容量偏差/ Cap.tol	±5% ( J ) ; ±10% ( K )						
最大纹波电压/ Maximum applicable peak to peak ripple voltage	0.2 × $U_{NDC}$						
耐电压/ Withstand voltage	vt-t vt-c	1.5 $U_N$ ( V.AC ) / 10s 3000V.AC/60s					
过电压/ Over voltage	1.1 $U_N$ ( 30% of on - load - dur. ) 1.15 $U_N$ ( 30min / day ) 1.2 $U_N$ ( 5min / day ) 1.3 $U_N$ ( 1min / day ) 1.5 $U_N$ ( 100ms every time, 1000 times during the lifetime )						
损耗角正切/ Dissipation factor	$Tg\delta \leq 0.002$ f = 1kHz						
自感/ Self inductance	< 1 nH per mm of lead spacing						
绝缘电阻/ Insulation resistance	$R_s \times C \geq 10000s$ ( at 20°C 100V.DC )						
阻燃性/ Flame retardation	UL94V-0						
引用标准/ Reference standard	IEC61071; GB/T 17702						

### 外形图 The contour map



### 产品编码说明 Part number system

Urms	180V.AC	250V.AC	300V.AC	350V.AC
$U_N$	250V.AC	350V.AC	425V.AC	480V.AC
$U_{NDC}$	300V.DC	475V.DC	560V.DC	600V.DC

### 产品编码说明 Part number system

型号	容量	额定电压 ( 直流 )	容偏	引出数量	脚距P1	脚距P2	引出长度L	内部特征码
1-3	4-6	7~10	11	12	13	14	15	16-17
APS	$156=15 \times 10^6 \mu F = 15 \mu F$	0180=180V.AC	J=±5% K=±10%	2 : 2Pin 4 : 4Pin	1 : P1=37.5 2 : P1=52.5 3 : P1=27.5	0 : 无 1 : P1=10.2 2 : P1=20.3	1 : L=4 2 : L=15	01





# EMI Suppression Capacitors X2 series

## 金属化聚丙烯膜抗干扰电容器



### 应用

- X2类抗干扰电容器
- 广泛应用于电源跨线路等抗干扰场合
- 广泛应用于箝位电路，交流及谐波滤波，不断电系统，光伏逆变器，LCL滤波器及马达驱动

### APPLICATIONS

- X2 class for interference suppression
- Widely used in across-the-line, EMI suppression
- Widely used in Clamping, AC and Harmonic Filtering, UPS Systems, Solar Inverter with LCL Filter and Motor Drive

### 性能参数 Technical data

气候类别 / 阻燃等级	40/110/56/B			
工作温度范围/ Operating temperature range	-40°C ~ +110°C			
容量范围/ Capacitance range	0.0022~10μF			
额定电压/ Rated voltage	AC 310V, 50~60Hz			
最大连续直流电压/ Maximum continuous DC voltage	DC 630V			
容量偏差/ Cap.tol	±5% (J) ; ±10% (K) ; ±20% (M)			
损耗角正切/ Dissipation factor	at 1KHz, 20°C	$C_N \leq 0.47\mu F$	$0.47\mu F < C_N \leq 1.0\mu F$	$C_N > 1.0\mu F$
		$1 \times 10^{-3}$	$1 \times 10^{-3}$	$3 \times 10^{-3}$
	100KHz, 20°C	$5 \times 10^{-3}$		
绝缘电阻/insulation resistance	V test(VDC) 1min	$C_N \leq 0.33\mu F$	$C_N > 0.33\mu F$	
	100±15	$\geq 100G\Omega$		$\geq 30000s$
直流电压测试/ DC test voltage	4.3U <sub>R</sub> (DC), 2s			

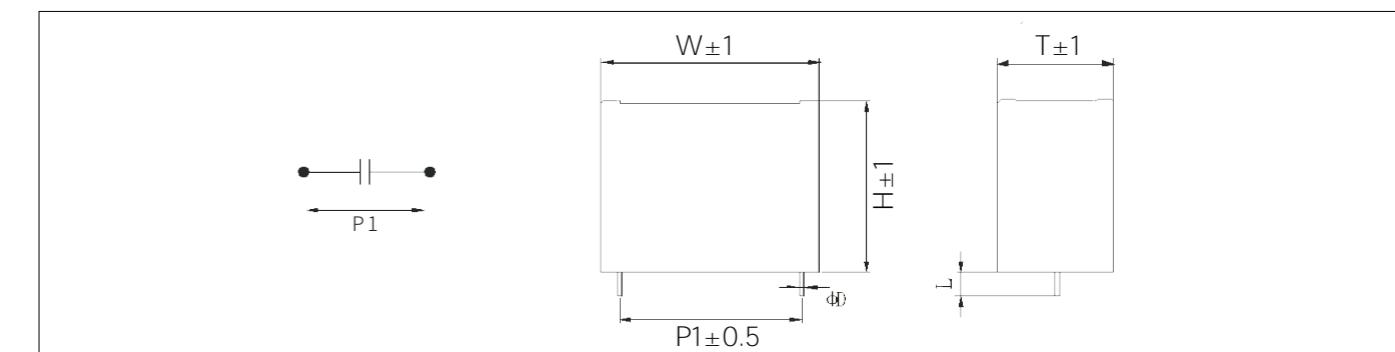
### 安全认证 Safety Approvals

	VDE	EN 60384-14/ IEC 60384-14	Certificate: 40052245 (approved by VDE)
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### DV/DT数据 THE DV/DT TABLE

Dv/dt (V/μs)					
P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm	P=52.5mm
475	340	200	150	100	75

### 产品结构图 THE CONTOUR MAP



### 编码规则 /PART NUMBER SYSTEM

Type code	Capacitance	Rated Voltage(AC)	Tolerance	Pin	Lead Pitch P1 (mm)	Lead Pitch P2 (mm)	Lead Pitch P2 (mm)	Internal code
1~3 MKP	4~6 105=10×10 <sup>5</sup> pF=1μF	7~10 0310=310VAC	11 J=±5% K=±10% M=±20%	12 2:2Pin	13 2:P1=10 3:P1=15 4:P1=22.5 5:P1=27.5 6:P1=37.5 7:P1=52.5	14 0:无	15 1:L=4 2:L=15	16~17 01

### 规格表 Specification table

C <sub>N</sub> (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number	C <sub>N</sub> (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.0022	13.0	4.0	8.0	0.6	10.0	MPX2220310*220***	0.0056	13.0	4.0	9.0	0.6	10.0	MPX5620310*220***
0.0033	13.0	4.0	9.0	0.6	10.0	MPX3320310*220***	0.0056	13.0	5.0	11.0	0.6	10.0	MPX5620310*220***
0.0047	13.0	4.0	9.0	0.6	10.0	MPX4720310*220***	0.0068	13.0	4.0	9.0	0.6	10.0	MPX6820310*220***
0.0047	13.0	5.0	11.0	0.6	10.0	MPX4720310*220***	0.0068	13.0	5.0	11.0	0.6	10.0	MPX6820310*220***



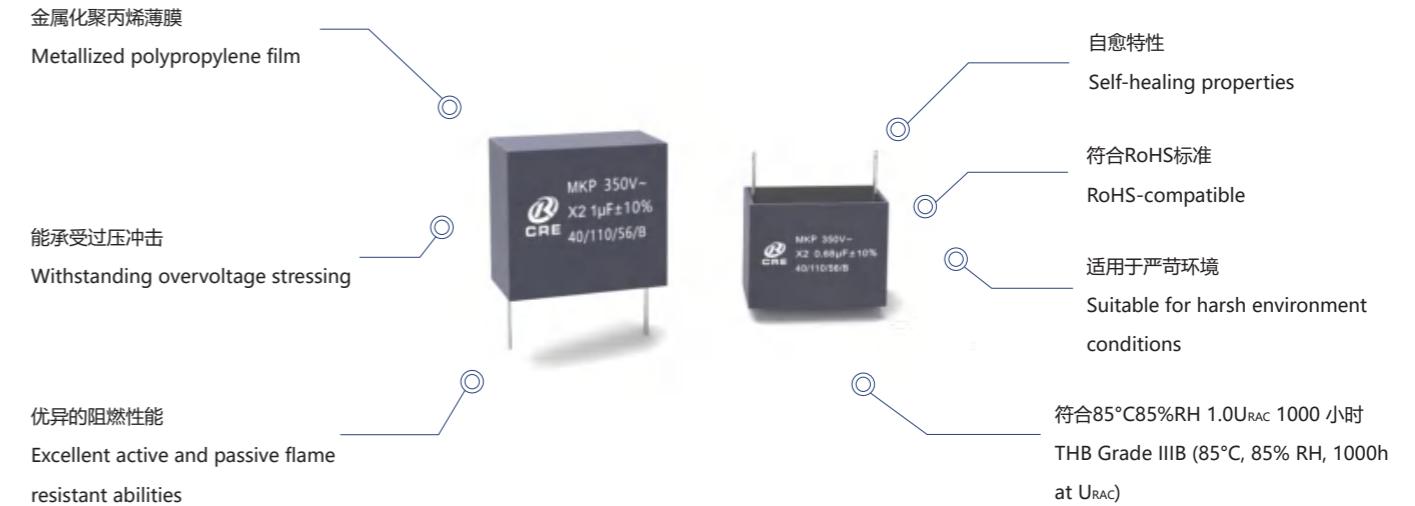
# EMI Suppression Capacitors X2 series

## 金属化聚丙烯膜抗干扰电容器

规格表 Specification table

续上表

C <sub>n</sub> ( $\mu$ F)	W(mm)	T(mm)	H(mm)	$\phi$ D(mm)	P1(mm)	Part number
1.0	31.0	8.0	17.0	0.8	27.5	MPX1050310*250***
1.0	32.0	9.0	18.0	0.8	27.5	MPX1050310*250***
1.0	31.5	11.0	20.0	0.8	27.5	MPX1050310*250***
1.0	31.0	13.0	22.0	0.8	27.5	MPX1050310*250***
1.2	26.0	9.0	19.5	0.8	22.5	MPX1250310*240***
1.2	26.5	10.0	18.5	0.8	22.5	MPX1250310*240***
1.2	26.5	11.0	20.0	0.8	22.5	MPX1250310*240***
1.2	26.5	13.5	24.0	0.8	22.5	MPX1250310*240***
1.2	31.0	9.0	17.5	0.8	27.5	MPX1250310*250***
1.2	32.0	9.0	18.0	0.8	27.5	MPX1250310*250***
1.2	31.5	11.0	20.0	0.8	27.5	MPX1250310*250***
1.2	31.0	13.0	22.0	0.8	27.5	MPX1250310*250***
1.2	31.5	14.0	25.0	0.8	27.5	MPX1250310*250***
1.5	26.0	10.0	21.0	0.8	22.5	MPX1550310*240***
1.5	26.5	11.0	20.0	0.8	22.5	MPX1550310*240***
1.5	26.5	12.5	21.5	0.8	22.5	MPX1550310*240***
1.5	26.5	15.0	25.0	0.8	22.5	MPX1550310*240***
1.5	31.0	10.0	18.5	0.8	27.5	MPX1550310*250***
1.5	32.0	9.0	18.0	0.8	27.5	MPX1550310*250***
1.5	31.5	11.0	20.0	0.8	27.5	MPX1550310*250***
1.5	31.0	14.0	23.5	0.8	27.5	MPX1550310*250***
1.5	31.5	16.0	25.5	0.8	27.5	MPX1550310*250***
1.5	41.0	11.0	22.0	0.8	37.5	MPX1550310*260***
1.5	41.0	13.0	24.0	0.8	37.5	MPX1550310*260***
1.8	26.0	12.5	23.0	0.8	22.5	MPX1850310*240***
1.8	26.5	12.0	22.0	0.8	22.5	MPX1850310*240***
1.8	26.5	15.5	21.5	0.8	22.5	MPX1850310*240***
1.8	26.5	15.0	25.0	0.8	22.5	MPX1850310*240***
1.8	31.5	11.0	20.0	0.8	27.5	MPX1850310*250***
1.8	31.0	12.0	20.5	0.8	27.5	MPX1850310*250***
1.8	31.0	13.0	22.0	0.8	27.5	MPX1850310*250***
1.8	31.0	14.0	25.0	0.8	27.5	MPX1850310*250***
1.8	31.0	18.0	26.0	0.8	27.5	MPX1850310*250***
1.8	41.0	11.0	22.0	0.8	37.5	MPX1850310*260***
1.8	41.0	13.0	24.0	0.8	37.5	MPX1850310*260***
2.2	26.0	15.0	22.0	0.8	22.5	MPX2250310*240***
2.2	26.5	13.5	24.0	0.8	22.5	MPX2250310*240***
2.2	31.0	13.0	22.0	0.8	27.5	MPX2250310*250***
2.2	32.0	14.0	23.5	0.8	27.5	MPX2250310*250***
2.2	31.0	18.0	26.0	0.8	27.5	MPX2250310*250***
2.2	31.5	18.0	30.0	0.8	27.5	MPX2250310*250***
2.2	41.0	11.0	22.0	0.8	37.5	MPX2250310*260***
2.2	41.0	13.0	24.0	0.8	37.5	MPX2250310*260***
2.2	41.0	15.0	26.0	0.8	37.5	MPX2250310*260***
2.7	31.0	13.0	22.0	0.8	27.5	MPX2750310*250***
2.7	31.5	16.0	25.5	0.8	27.5	MPX2750310*250***



## 应用

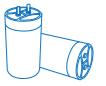
- X2类抗干扰电容器
- 广泛应用于电源跨线路等抗干扰场合
- 广泛应用于箝位电路, 交流及谐波滤波, 不断电系统, 光伏逆变器, LCL滤波器及马达驱动

## APPLICATIONS

- X2 class for interference suppression
- Widely used in across-the-line EMI suppression
- Widely used in Clamping, AC and Harmonic Filtering, UPS Systems, Solar Inverter with LCL Filter and Motor Drive

## 性能参数 Technical data

气候类别 / 阻燃等级 Climatic Category / Passive Flammability Category	40/110/56/B		
工作温度范围/ Operating temperature range	-40°C~ +110°C		
容量范围/ Capacitance range	0.01~25 $\mu$ F		
额定电压/ Rated voltage	AC 350V, 50~60Hz		
最大连续直流电压/ Maximum continuous DC voltage	DC 630V		
容量偏差/ Cap.tol	$\pm 5\%$ (J); $\pm 10\%$ (K); $\pm 20\%$ (M)		
损耗角正切/ Dissipation factor	at 1kHz, 20°C $C_N \leq 2.2\mu$ F		
绝缘电阻/insulation resistance	V test(VDC) 1min $C_N \leq 0.33\mu$ F	$1 \times 10^3$	$3 \times 10^{-3}$
直流电压测试/ DC test voltage	4.3U <sub>R</sub> (DC), 2s $100 \pm 15$	$\geq 100G\Omega$	$\geq 30000s$









# EMI Suppression Capacitors X1 series

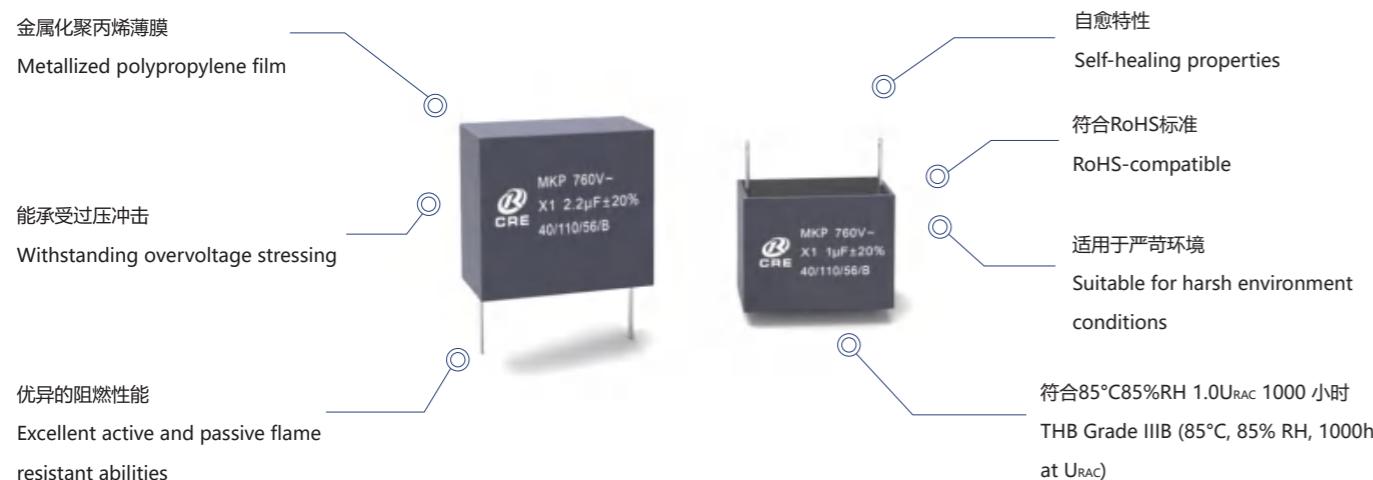
## 金属化聚丙烯膜抗干扰电容器

规格表 Specification table

C <sub>n</sub> (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
3.9	41.0	26.0	41.0	1.0	37.5	MKP3950530*260***
3.9	41.5	27.5	37.5	1.0	37.5	MKP3950530*260***
4.7	41.0	28.0	43.0	1.0	37.5	MKP4750530*260***
4.7	42.0	30.0	45.0	1.0	37.5	MKP4750530*260***
4.7	57.0	24.0	38.0	1.2	52.5	MKP4750530*270***

C <sub>n</sub> (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
5.6	57.0	30.0	45.0	1.2	52.5	MKP5650530*270***
6.8	57.0	30.0	45.0	1.2	52.5	MKP6850530*270***
6.8	57.0	44.0	30.0	1.2	52.5	MKP6850530*270***
8.2	57.0	35.0	50.0	1.2	52.5	MKP8250530*270***
10.0	57.0	35.0	50.0	1.2	52.5	MKP1060530*270***

续上表



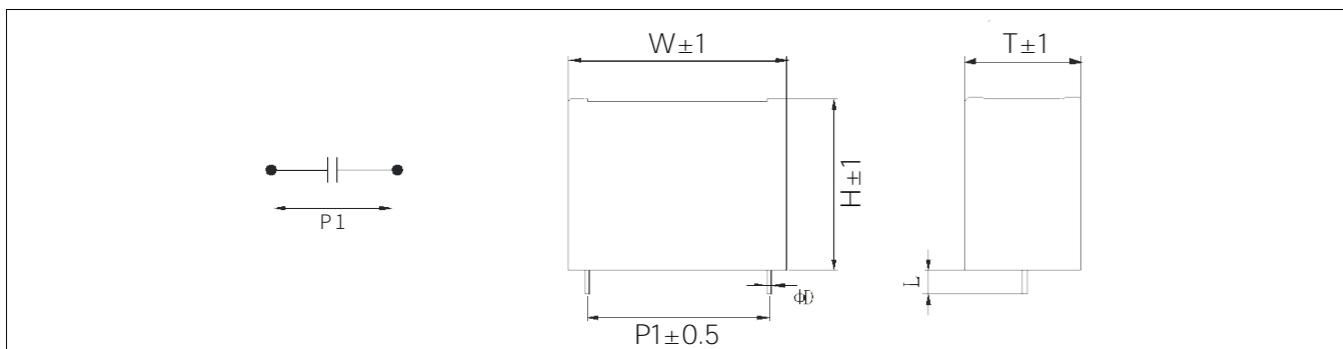
### 应用

- X1类抗干扰电容器
- 广泛应用于电源跨线路等抗干扰场合
- 广泛应用于箝位电路，交流及谐波滤波，不断电系统，光伏逆变器，LCL滤波器及马达驱动

### APPLICATIONS

- X1 class for interference suppression
- Widely used in across-the-line, EMI suppression
- Widely used in Clamping, AC and Harmonic Filtering, UPS Systems, Solar Inverter with LCL Filter and Motor Drive

### 产品结构图 THE CONTOUR MAP



性能参数 Technical data

气候类别 / 阻燃等级 Climatic Category / Passive Flammability Category	40/110/56/B		
工作温度范围/ Operating temperature range	-40°C ~ +110°C		
容量范围/ Capacitance range	0.001~2.2μF		
额定电压/ Rated voltage	AC 760V, 50~60Hz		
最大连续直流电压/ Maximum continuous DC voltage	DC 1500V		
容量偏差/ Cap.tol	±5% (J) ; ±10% (K) ; ±20% (M)		
损耗角正切/ Dissipation factor	C <sub>N</sub> ≤0.47μF	0.47μF < C <sub>N</sub> ≤1.0μF	C <sub>N</sub> > 1.0μF
	≤1×10 <sup>-3</sup> (1kHz, 20°C)	≤2×10 <sup>-3</sup> (1kHz, 20°C)	≤3×10 <sup>-3</sup> (1kHz, 20°C)
绝缘电阻/insulation resistance	V test(VDC) 1min	C <sub>N</sub> ≤0.33μF	C <sub>N</sub> > 0.33μF
	100±15	≥30,000MΩ	≥10000s
直流电压测试/ DC test voltage	4.3U <sub>R</sub> (DC), 2s		

DV/DT数据 THE DV/DT TABLE

Dv/dt (V/μs)					
P=10mm	P=15mm	P=22.5mm	P=27.5mm	P=37.5mm	P=52.5mm
475	400	200	150	150	75

### 编码规则 /PART NUMBER SYSTEM

Type code	Capacitance	Rated Voltage(AC)	Tolerance	Pin	Lead Pitch P1 (mm)	Lead Pitch P2 (mm)	Lead Pitch P2 (mm)	Internal code
1~3 MKP	4~6 105=10×10 <sup>5</sup> pF =1μF	7~10 0760=760VAC	11 J=±5% K=±10% M=±20%	12 2: 2Pin	13 2 : P1=10 3 : P1=15 4 : P1=22.5 5 : P1=27.5 6 : P1=37.5 7 : P1=52.5	14 0 : 无	15 1 : L=4 2 : L=15	16~17 01

规格表 Specification table

C <sub>n</sub> (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number	C <sub>n</sub> (μF)	W(mm)	T(mm)	H(mm)	φD(mm)	P1(mm)	Part number
0.0010	17.5	5.0	9.5	0.6	15	MKP1020760*230***	0.0027	17.5	5.0	9.5	0.6	15	MKP2720760*230***
0.0012	17.5	5.0	9.5	0.6	15	MKP1220760*230***	0.0033	17.5	5.0	11.0	0.6	15	MKP3320760*230***
0.0015	17.5	5.0	9.5	0.6	15	MKP1520760*230***	0.0047	17.5	5.0	11.0	0.6	15	MKP4720760*230***
0.0018	17.5	5.0	9.5	0.6	15	MKP1820760*230***	0.0056	17.5	5.0	11.0	0.6	15	MKP5620760*230***
0.0022	17.5	5.0	9.5	0.6	15	MKP2220760*230***	0.0068	17.5	5.0	11.0	0.6	15	MKP6820760*230***

续上表









# 使用薄膜电容器的注意事项 Notes on Using Film Capacitors

# 电容器选型指南 Guide for Capacitors Selection

5. 电容器充放电	5.Charging and discharging
由于电容器充放电电流取决于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，请为每个电容器串连一个20Ω/V-1000Ω/V或更高的限流电阻。详见电容器标准。另外，在用手操作电容器之前必须对电容器进行充分放电，否则电容器内部残存的能量可能会对操作人员产生致命的伤害。	Because 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 discharging current. When charging and discharging, pass through a resistance of 20Ω /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 ) In addition, capacitors must be discharged with resistor before handling. Because the capacitor hasn't discharge resistor inside, so there is residual but maybe deathful electric energy contained.
6. 因薄膜振动产生的嗡鸣声	6.Buzzing noise
电容器的翁鸣声是由于电容器薄膜受到两电极间库伦力的作用，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，所产生的翁鸣声越大。但这种翁鸣声对电容器不会产生任何破坏作用。	Any buzzing noise produced by capacitor is caused by the vibration of the film due to coulomb force that is generated between the electrodes with opposite poles. If the waveform with a high distortion rate or frequency is applied across the capacitor, the buzzing noise will become louder. But the buzzing noise is of no damage to capacitor.
7. 阻燃性	7.Flame retardation
尽管在薄膜电容器外封装中使用了耐火性阳燃材料-阻燃环氧树脂或塑壳，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装破裂，导致电容器芯子熔化或燃烧。	Although flame retardation epoxy resin or plastic case is used in the coating or encapsulating of plastic film capacitor, continuous outer high temperature for firing will break the coating layer or plastic case of the capacitor, and may lead to melting and firing of the capacitor element.
8. 高湿环境	8.Humid ambient
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。如果是在AC条件下使用，高湿环境将会加剧电晕的影响，从而引起电容量下降、损耗增加。	If used for long time in a humid ambient, the capacitor might absorb humidity and oxidise the electrodes causing breakage of the capacitor. If in AC condition, high humidity would increase the corona effect. This phenomenon causes a drop of capacitance and an increase of capacitor losses.
9. 贮存条件	9.Storage conditions
1、电容器不能贮存在腐蚀性的空气环境中，特别是存在氯化物、硫酸物、酸、碱、盐、有机溶剂或类似物质时。 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） 温度：不超过35°C 湿度：不超过80% RH，不允许有凝露 贮存时间：不超过24个月（从产品包装或产品本体上的日期算起）	I.Capacitors may not be stored in corrosive atmospheres, particularly not when chlorides, sulfides, acids, lye, salts, organic solvents or similar substances are present. 2. It shouldn't be located in particularly high temperature and high humidity, it must submit to the following conditions ( unchanging primal package ): Temperature: ≤35°C Humidity: ≤80% RH, no dew allowed on the capacitor. Storage time: ≤24 months ( from the date marked on the capacitor's body or the label glued to the package )
绿色产品	Green products
RoHS符合性	RoHS compliance
在此产品目录中的，本公司产品均符合RoHS指令和《电子信息产品污染控制管理办法》的要求。	Products in the catalogue are RoHS Compliant.

客户订购指南	Guide for customer ordering
请尽快提供以下信息：	Please provide following information as possible as you can
1. 应用行业领域：如UPS, 变频器, 光伏逆变器, 风电流器, 电动汽车 / 混合动力汽车, 逆变电源等。	1.Application:for example,UPS,inverter,inverter,PV inverter,wind power converter,electric vehicle / hybrid electric vehicle,inverter power supply,etc.
2. 应用电路场合：如DC - Link, 交流滤波, IGBT吸收, 谐振, 耦合等	2.Application circuit occasions:such as DC-Link,AC filter, ripple voltage,non-recurrent surge current etc.
3.额定电容量及允许偏差	3.Rated capacitance and tolerance.
4.电压：包括额定电压、工作电压、纹波电压、非周期冲击电压等	4.Voltage:including rated voltage,working voltage, ripple voltage,non-recurrent surge current etc.
5.电流：包括最大电流、工作电流、最大峰值电流、最大冲击电流等	5.Current:including maximum current,working current,maximum peak current,maximum surge current etc.
6.频率：包括工作频率, 脉冲频率, 纹波电压的频率等	6.Frequency:including working frequency, pulse frequency,frequency of ripple voltage etc.
7.工作场所：如固定场所、车辆、船舶等	7.Working location:for example,fixed-location,vehicle,watercraft etc.
8.工作环境：如温度范围、温度、海拔、散热方式等	8.Working environment:for example,temperature range,humidity, altitude,cooling mode etc.
9.产品尺寸：如直径、高度或长度、宽度、高度等	9.Dimensions:for example,diameter,height or length,width,height etc.
10.端子类型：如螺栓式、螺孔式、接线片、插片式等	10.Terminal form:for example,stud,thread hole,lug,tab,etc.
11.安全要求：如阻燃、防爆等	11.Safety:for example,flame resistance,anti-explosion etc.
12.预期寿命：在给定的工作条件下的预期寿命	12.Expected lifetime:under given working conditions.
13.安装方式：如底部螺栓、中部卡圈、安装耳等	13.Fixed style:for example,bottom-stud,middle-clip,mounting ears etc.
14.其它	14.Others

