

Introduction

人力资源优势 Advantage of HR

研发部长在 EPCOS 有多年的相关工作经验。

R&D manager has related working experiments from EPCOS.

现场管理人员，如生产、品质和设备部门，均有在 EPCOS 工厂的工作经历。

Other managerial staff, such as production, QA and equipment department have experiments from EPCOS.

技术优势 Advantage of technology

所有产品设计方案均来自德国 EPCOS 和日本 Panasonic，并有针对性的改进。

All product designation comes from EPCOS and Panasonic, improvements was introduced.

关键设备均为进口，检验和试验设备完善，完全执行 EPCOS 的要求。

Major equipment was imported from Korea, testing and inspection device was defined according to EPCOS specification.

主要原材料和生产工艺直接从 EPCOS 导入。

Key materials and Working Introduction comes from EPCOS accordingly.

公司生产的电容器已连续两年保持故障率低于千分之 0.2，这在低压电容器行业中处于绝对的领先水平。

Company production of capacitor has two years in a row to maintain failure rate lower than 0.2 per thousand, it is in the leading level in the low voltage capacitor industry.

产品介绍 – PFC 电容器

Production introduction – PFC capacitor

产品结构 Structure

单相、三相、相间或三相四线

Single phase, 3 phases, separated phases or YN

单圆柱或多圆柱

Single cylinder case or multiply cylinder cases

铁皮方型



Tel: +86-514-87782298, 87782296

E-mail: info@yzpst.com

Web Site: www.Pst888.com www.yzpstcc.com

FAX: +86-514-87782297, 87367519

yzpst@pst888.com

www.yzpst.net www.yzpst.com



产品型号分类 Product model classification

产品型号 Product model

BK MJ 经济型方型电容器 Economical square capacitor

BK MJ P 标准方型电容器 Standard square capacitor

A KM J G 滤波方型高性能电容器 Filter square high performance capacitor

BK MJ Y S 标准圆柱型电容器 Standard cylindrical capacitor

A KM J Y S 滤波圆柱型高性能电容器 Filter cylindrical high performance capacitor

不同型号产品主要相关参数对比表 Comparison of main relevant parameters of different models of products

型号 Models	BK MJ	BK MJ P	A KM J G	BK MJ Y S	A KM J Y S
容量偏差 Capacity deviation	-5%~10%	-2%~3%	-2%~3%	-2%~3%	-2%~3%
极壳间耐压 Withstand voltage between polar shells	≥3600V	≥3600V	≥3600V	≥3600V	≥3600V
使用环境 Use environment	-40~60°C	-40~60°C	-40~60°C	-40~60°C	-40~60°C
电容器最高使用电压 Maximum operating voltage of capacitor	额定电压 1.1 倍 1.1 times of rated voltage	1.15 倍 1.1 times	1.2 倍 1.2 times	1.15 倍 1.15 times	1.2 倍 1.2 times
电容器最高使用电流 Maximum operating current of capacitor	额定电流的 1.3 倍 1.3 times the rated current	1.5 倍 1.5 times	2 倍 2 times	1.5 倍 1.5 times	2 倍 2 times
投切瞬间过涌流能力 Inrush current capacity at switching moment	额定电流的 200 倍 200 times the rated current	220 倍 220 times	250 倍 250 times	220 倍 220 times	250 倍 250 times



设计使用寿命(使用环境满足国标及 IEC 标准情况下) Design service life (when the service environment meets national standards and IEC standards)	50000 hours	100000 hours	150000 hours	100000 hours	150000 hours
使用场所 Place of use	国网 JP 柜、一般民用设施及环境较好的工矿企。 State Grid JP cabinet, general civil facilities and industrial and mining enterprises with better environment.	一般型工矿企 General industrial and mining enterprises	特殊工矿场所 (如化工、钢铁、矿山等谐滤含量大的场所) Special industrial and mining sites (such as chemical industry, iron and steel, mining and other places with high harmonic filtration content)	一般型工矿企 General industrial and mining enterprises	特殊工矿场所(如化工、钢铁、矿山等谐滤含量大的场所) Special industrial and mining sites (such as chemical industry, iron and steel, mining and other places with high harmonic filtration content)

产品特点 Product features

特殊的镀膜工艺，确保了良好的电容器自愈性能和电气性能的稳定性。

The special coating process ensures good capacitor self-healing performance and stability of electrical performance.

多组单体并联电容器为我司专利产品，每组单体电容采用过压分离装置不仅确保了产品的安全性，同时由于采用多组单体元件并联元件间有一定间隙，产品散热性能好、温升低。从而提高了产品电气性能和使用寿命。

Multiple groups of single shunt capacitors are our patented products. Each group of single capacitors adopts overvoltage separation device, which not only ensures the safety of the product, but also improves the electrical performance and service life of the product due to the use of multiple groups of single elements and a certain gap between the parallel elements.

产品采用进口北欧化工高等规度粒子生产的耐高温薄，保证了产品性能更加稳定。

The products are made of imported Nordic chemical high gauge particles, which are thin and resistant to high temperature, so as to ensure more stable product performance.

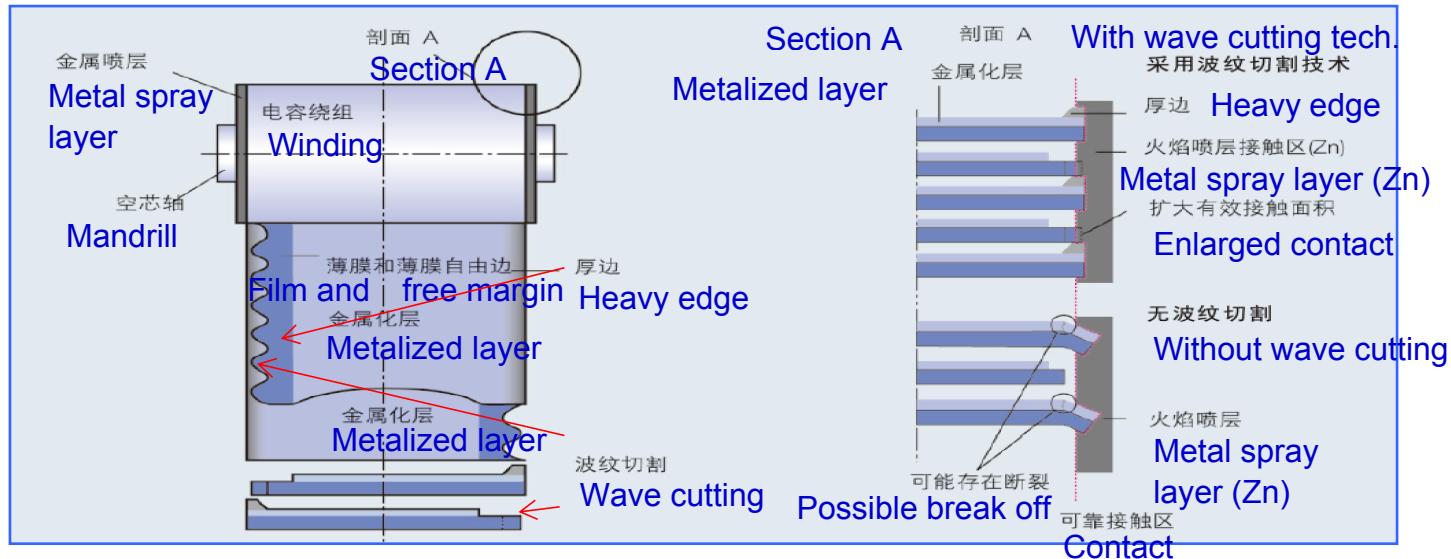


采用 PU 树脂填充，保证了填充料与薄膜的相溶性，产品可保证在零下 40--60 度环境下正常使用。

It is filled with PU resin to ensure the compatibility between filler and film, and the product can be used normally at minus 40-60 degrees.

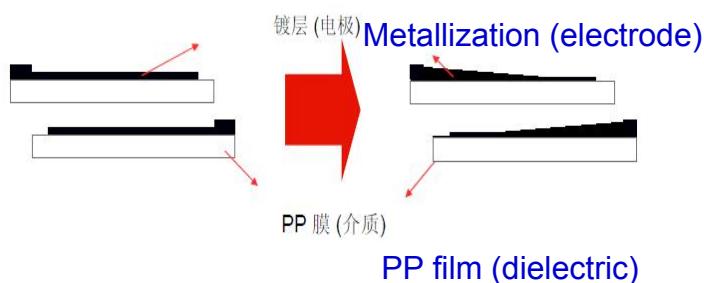
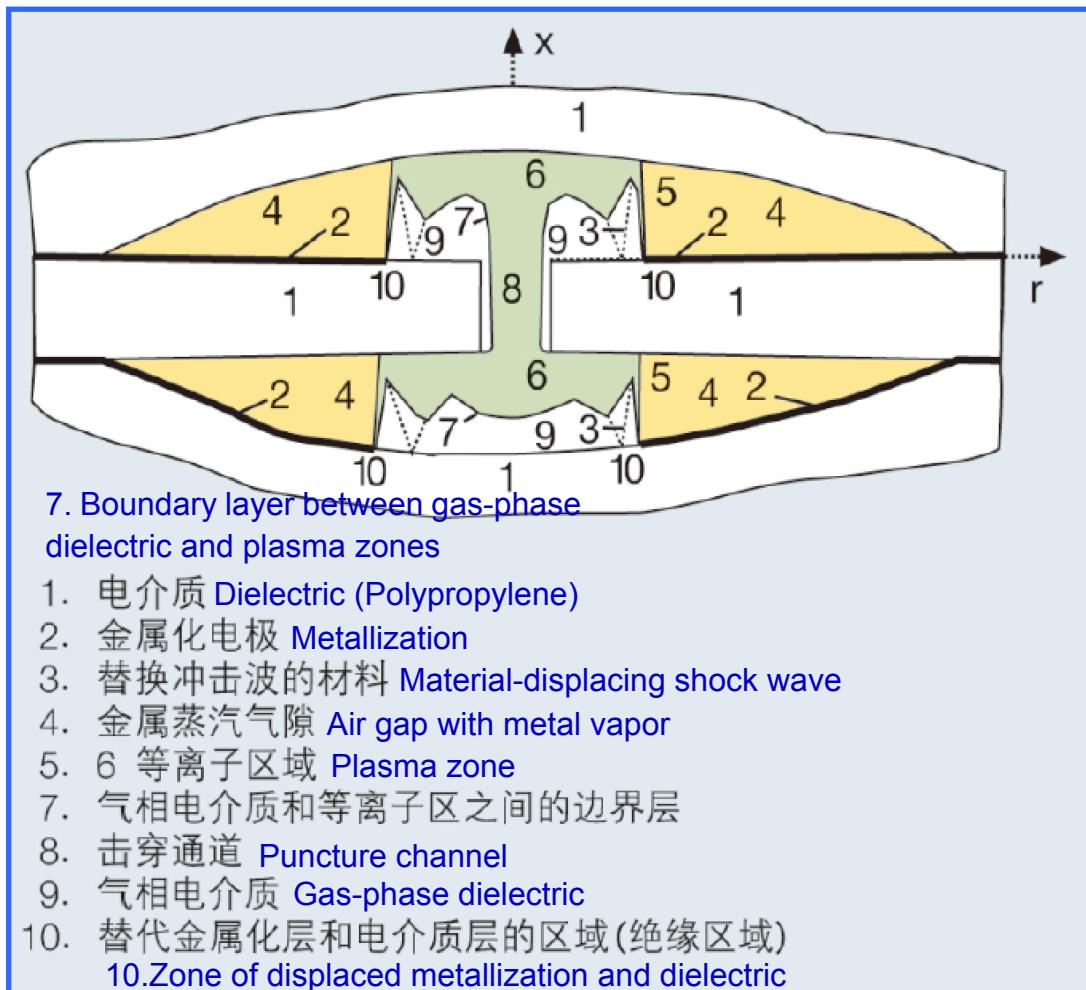
关键技术 Key technology

波浪分切技术 Wave cutting technology



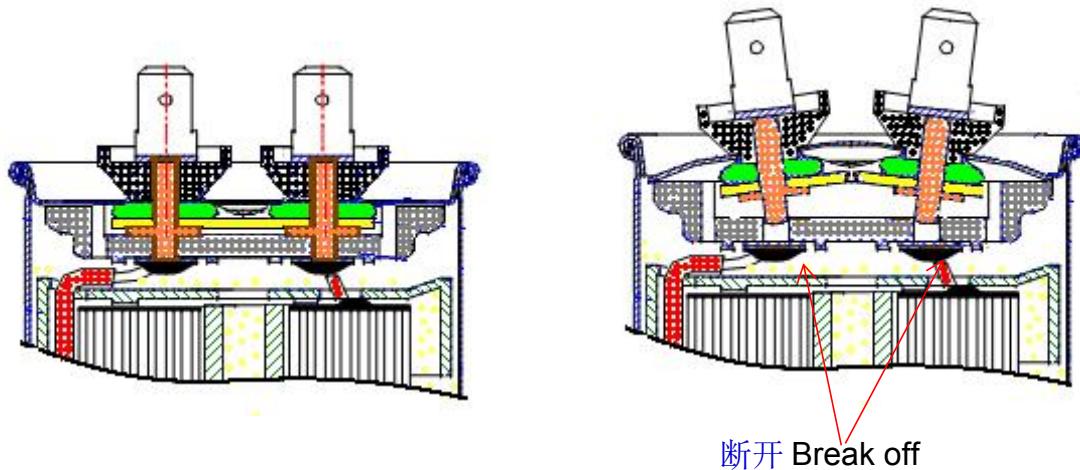
降低损耗、提高电容器耐冲击电流能力，是提高电容器使用寿命的关键。该技术解决了喷金层与金属化薄膜接触不良增加产品损耗的问题，增加喷金层与金属化薄膜接触面积，电容器耐冲击能力有了大幅的提升。

Reduce loss factor, improve the resistance of inrush current, is key point to enlarge lifetime of capacitor. This technology solves the poor connection problem between metalized layer and metal spray layer which lead to create high losses, and increases the contact area. Thus capacitor resistance of inrush current has been significantly improved.

自愈特性 Self-healing function

薄膜的弱点击穿产生的电弧迅速使击穿区周围的镀层蒸发。高温产生的气压同时将金属薄膜熔化吹出击穿区，在附近形成一个没有金属化层的绝缘区。当镀层厚度越薄时，自愈时所需要的能量就越小，整个过程的时间更短。电容器的性能更可靠，容量衰减更小，电容器寿命更长。

When the breakdown of the weak point of film happens, the arc will soon melt the coating around the breakdown area and forms an insulating zone. When the thickness of the coating is thinner, the energy needed for self-healing is smaller, and the whole process is shorter. So the capacitor is more reliable, smaller capacity degradation, and long lifetime.

独立的单元保护装置 Individual unit protection device

此结构为过压分离器。当电容器由于过热、过载或临近使用寿命期限而击穿时，释放出大量气体，使电容器壳内的气压迅速上升，顶盖向上弯曲拉伸。当膨胀超过限度时，内部连接线会快速分离，故障元件彻底切离。优点如下：

- 1、可靠性高：壳与盖爆离压力是防爆装置动作时压力的 2 倍以上；
- 2、灵敏度高：独立单元的体积为传统设计体积的 1/4，出现故障时内部压力会迅速升高。

The structure is over pressure separator. When the capacitor due to overheating, overload or close to the service life of the breakdown, the release of a large amount of gas, so that the pressure in the capacitor shell rapidly rising, the top of the cover bending stretch. When the expansion exceeds the limit, the internal connection will be quickly separated, the fault components completely cut off. Advantages are as follows:

1. High reliability: shell and cover explosion pressure is the pressure of the explosion-proof device action more than 2 times;
2. High sensitivity: independent unit volume of the traditional design of the volume of 1/4, the failure of the internal pressure will rise rapidly.

不同填充介质产品性能对比 Performance comparison of products with
different filling media

填充料名称 Filler name	微晶蜡 Microcrystalline wax	黑胶(改良沥青) Black glue (modified asphalt)	氮气 nitrogen	植物油 vegetable oil	环氧树脂 epoxy resin	可降解软体树脂 Degradable soft resin
常温下状态 Normal temperature state	固体 solid	固体 solid		液体 liquid	固体 solid	胶状 Colloidal
凝固点 freezing point	70°C	70°C		-5°C		-40°C
缺点 down sides	对芯体薄膜溶涨腐蚀现象严重,无法保证产品密封性能,安全性无法保证,存在安全风险。The swelling corrosion of the core film is serious, which can not guarantee the sealing performance and safety of the product, and there are safety risks.	对芯体溶涨腐蚀现象严重,无法保证产品密封性能,安全性无法保证,存在安全风险。The swelling corrosion of the core film is serious, which can not guarantee the sealing performance and safety of the product, and there are safety risks.	工艺复杂,电气性能差,薄膜容易出现氧化击穿现象。密封性无法检验,存在安全风险。The process is complex, the electrical performance is poor, and the film is prone to oxidation breakdown. The tightness cannot be tested and there is a safety risk.	对芯体有溶涨现象,易渗漏。There is swelling phenomenon on the core, which is easy to leak.	密封性无法检验,存在安全风险。The tightness cannot be tested and there is a safety risk.	工艺复杂,成本高。The process is complex and the cost is high.
优点 up sides	工艺简单,价格低。The process is simple and the price is low.	工艺简单,价格低。The process is simple and the price is low.	价格低 low prices	电气较好,性价比比较高.Good electrical performance and high cost	工艺简单,电气性能好,无渗漏。Simple process, good electrical performance	工艺可控性好,良好散热性能,电气性能可靠,安全性能高。Good process controllability, good heat



Tel: +86-514-87782298, 87782296

E-mail: info@yzpst.com;Web Site: www.Pst888.comwww.yzpstcc.com

FAX: +86-514-87782297, 87367519

yzpst@pst888.comwww.yzpst.netwww.yzpst.com

				performance	and no leakage.	dissipation performance, reliable electrical performance and high safety performance.
使用 working temperature	-20~55°C	-20~55°C	-20~55°C	-20~55°C	-40~55°C	-40~60°C

主要设备 Major equipment

先进的生产设备 Advanced equipment

韩国产分切机 Slitting machine from Korea



韩国产卷绕机 Winding machine from Korea



Tel: +86-514-87782298, 87782296

E-mail: info@yzpst.com;

Web Site:www.Pst888.com www.yzpstcc.com

FAX: +86-514-87782297, 87367519

yzpst@pst888.com

www.yzpst.net www.yzpst.com

自动喷金机 Metal spray machine



真空油处理系统 Vacuum oil treatment system



封装设备 Seaming machine



Tel: +86-514-87782298, 87782296
E-mail: info@yzpst.com;
Web Site: www.Pst888.com www.yzpstcc.com

FAX: +86-514-87782297, 87367519
yzpst@pst888.com
www.yzpst.net www.yzpst.com

赋能机+装配流水线 Electric clearing machine and assembly line



自动测试设备 Auto inspection machine



微量水份测试仪 Moisture tester



Tel: +86-514-87782298, 87782296
E-mail: info@yzpst.com;
Web Site: www.Pst888.com www.yzpstcc.com

FAX: +86-514-87782297, 87367519
yzpst@pst888.com
www.yzpst.net www.yzpst.com

局部放电测试仪 Partial discharge detector



直流充放电设备 Charge and discharge device



大功率电流源 High current source



交流耐久性试验台 AC endurance test machine



直流耐久性试验台 DC endurance test machine



雷击试验台 Lighting tester



Tel: +86-514-87782298, 87782296
E-mail: info@yzpst.com; www.Pst888.com www.yzpstcc.com

FAX: +86-514-87782297, 87367519
yzpst@pst888.com
www.yzpst.net www.yzpst.com

夏普多功能电容分析仪 SHARP capacitor multi-function analyzer



3 台镀膜机 3 Metallizer machines



4 台分切机 4 Slitting machines



Tel: +86-514-87782298, 87782296
E-mail: info@yzpst.com; www.Pst888.com www.yzpstcc.com

FAX: +86-514-87782297, 87367519
yzpst@pst888.com
www.yzpst.net www.yzpst.com