



# Metallized Polypropylene Film Interference Suppression Capacitors

## 金属化聚丙烯膜抑制电磁电源干扰用电容器 (MPX/MKP X2 320VAC--MP2 Series/ MP2 系列)

### 引用标准 Reference standards

GB/T6346.14-2015/ UL60384-14/VDE0565-1/ CSA E60384-14  
IEC60384-14 /EN60384-14/KC60384-14/KC60384-1

### 结构 Structure

介质：（金属化）聚丙烯膜

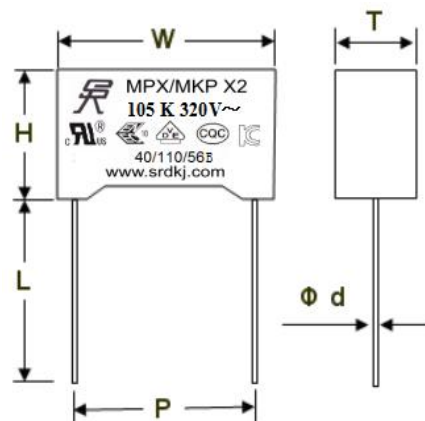
封装：阻燃环氧树脂，符合 UL94 V—0

外壳：阻燃 PBT 塑壳，符合 UL94 V—0

Dielectric: （Metallized ） Polypropylene film

Encapsulation: Flame retardant epoxy resin, conforming to UL94 V—0

Shell: Flame retardant PBT plastic shell, conforming to UL94 V—0



### 典型应用 Typical Application

跨线、抑制突波、交流场合 EMI 滤波；电源开关等。如：灯具、电源等

Interlines, Surge suppression, Across-in-line as EMI filter;

Power switch etc. Such as: Lamps, Power Sources etc.

### 特点 Features

外观一致性好；有良好自愈性 Good appearance consistency; Good self-healing property;

抗湿性强；高耐温 Good resistance to humidity; Can withstand high temperature;

长寿命，耐过电压优良 Long lifetime; Good ability to withstand surge voltage.

### 符合 RoHS 及 REACH 环保标准 Compliance with RoHs & REACH requirements.

### 电性能规范 Performance Specifications

|                                               |                                                                                                                                                                       |                                             |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 气候类别 Climate category                         | 40/110/56                                                                                                                                                             |                                             |
| 阻燃等级<br>Passive flammability class            | B                                                                                                                                                                     |                                             |
| 额定电压 Rated Voltage                            | 320VAC                                                                                                                                                                |                                             |
| 容量误差<br>Capacitance Tolerance                 | K: $\pm 10\%$                                                                                                                                                         |                                             |
| 容量范围<br>Capacitance Range                     | 0.0022 $\mu$ F~4.7 $\mu$ F<br>Test Condition: 20 $^{\circ}$ C, 1KHz, 1Vrms                                                                                            |                                             |
| 耐电压<br>Withstand Voltage                      | Terminal to terminal: 4.3U <sub>R</sub> (Vdc),5S<br>Terminal to shell: 2140VAC 60S                                                                                    | No breakdown or electric arcing             |
| 损耗角<br>Dissipation factor                     | $\leq 0.0020$ 10KHz C <sub>R</sub> $\leq 1.0\mu$ F<br>$\leq 0.0010$ 1KHz C <sub>R</sub> $> 1.0\mu$ F                                                                  | Test Condition : 20 $^{\circ}$ C 1V         |
| 绝缘电阻或时间常数<br>Insulation Resistance            | C <sub>R</sub> $\leq 0.33\mu$ F IR $\geq 15000M\Omega$<br>C <sub>R</sub> $> 0.33\mu$ F IR $\geq 5000S$                                                                | Test Condition : 20 $^{\circ}$ C 100V 1 min |
| 最大脉冲爬升速率<br>Max. Pulse Rise Time<br>(dV / dt) | P=7.5mm dV / dt = 800V/ $\mu$ s P=10mm dV / dt = 500V/ $\mu$ s<br>P=15mm dV / dt = 400V/ $\mu$ s P=22.5mm dV / dt = 200V/ $\mu$ s<br>P=27.5mm dV / dt = 150V/ $\mu$ s |                                             |



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#### 电性能规范 Performance Specifications

|                                        |                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                              |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 稳态湿热<br>Steady-state<br>Damp-heat Test | 温度 Temp.: 40±2℃<br>相对湿度 Humidity: 93%RH<br>持续时间 Duration Time: 56 Days                                                                                                                                        | 无可见损伤, 标志清晰<br>no visible damage, clear mark<br>绝缘电阻 IR: ≥ 额定值的 50%<br>IR: ≥ 50% of Rated value<br>容量变化 (相对初始值):<br>Capacitance change: $\Delta C/C \leq \pm 5\%$<br>损耗角增加 Dissipation factor:<br>Rise $\leq 0.0080$ (10KHz), $C_R \leq 1\mu F$<br>Rise $\leq 0.0050$ (1KHz), $C_R > 1\mu F$ |
| 耐久性试验<br>Endurance Test                | 温度 Temp.: +110℃,<br>施加电压: 1.25×额定电压(每小时<br>增加电压到 1000Vac, 0.1 秒, 1 次)<br>Test Voltage:<br>1.25 Times Rated Voltage ( Rise<br>the voltage to 1000Vac for .01s<br>once per hours )<br>持续时间 Duration Time: 1000H | 绝缘电阻 Insulation Resistance<br>IR: ≥ 50% of rated value<br>容量变化 (相对初始值): $\Delta C/C \leq \pm 10\%$<br>Capacitance change: $\Delta C/C \leq \pm 10\%$                                                                                                                                         |

#### 安规认证 Safety Certification

| 认证标志<br>Certification | 额定电压<br>Rated Voltage | 证书号码<br>Certificate No.    | 引用标准<br>Reference standard  | 认证国家<br>Certification Country |
|-----------------------|-----------------------|----------------------------|-----------------------------|-------------------------------|
| UL/CUL                | 320VAC                | E319615                    | UL60384-14<br>CSA E60384-14 | 美国、加拿大<br>America / Canada    |
| VDE                   | 320VAC                | 40028812                   | EN60384-14                  | 德国 Germany                    |
| ENEC                  | 320VAC                | 40028812                   | EN60384-14                  | 欧盟 Europe                     |
| CQC                   | 320VAC                | CQC09001035778             | GB/T6346.14-2015            | 中国 China                      |
| KC                    | 320VAC                | SU030803-<br>(16001-16005) | KC60384-14                  | 韩国 Korea                      |

#### 产品编码说明 Part No. Description:

15 位产品编码如下:

The Part No. Is total 15 digits, details as follow:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | P | 2 | 1 | 0 | 5 | K | 3 | 2 | E | 4 | R | 8 | * | * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|             |                                       |                                                           |
|-------------|---------------------------------------|-----------------------------------------------------------|
| Digit 1-3   | 型号代码 Product Name Code                | MP2= Class X2 Capacitors                                  |
| Digit 4-6   | 标称容量 Rated Capacitance Value          | For example : 105 = $10 \times 10^5 \text{pF} = 1.0\mu F$ |
| Digit 7     | 容量偏差 Capacitance Tolerance            | K=±10%                                                    |
| Digit 8-9   | 额定电压 Rated Voltage Code               | 32=320VAC                                                 |
| Digit 10-11 | 壳号 Plastic shell code                 |                                                           |
| Digit 12    | 塑壳颜色 Plastic Shell Color              | R = Grey Color with LOGO on the shell top                 |
| Digit 13    | 线径代码 Line diameter code               | 6=0.6 8=0.8                                               |
| Digit 14-15 | 成型或内部识别码 Forming Type or Internal Use |                                                           |



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## ■ 料号明细及尺寸 Part No. List and Dimensions

[illegible]

说明 Note: “\*\*”表示内部特征码

“\*\*”=Internal use.

**We can customize the capacitors according to customers special requirements.**