



# 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

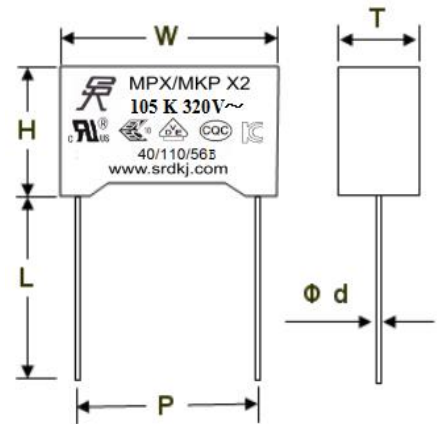
封装：阻燃环氧树脂，符合 UL94 V-0

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



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### 电性能规范 Performance Specifications

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

### 安规认证 Safety Certification

认证标志 Certification	额定电压 Rated Voltage	证书号码 Certificate No.	引用标准 Reference standard	认证国家 Certification Country
UL/CUL	320VAC	E319615	UL60384-14 CSA E60384-14	美国、加拿大 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- (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
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M	P	2	1	0	5	K	3	2	E	4	R	8	*	*
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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 = $10 \times 10^5 \text{pF} = 1.0\mu\text{F}$
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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