



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

(MP1-Class X1 300VAC Series)

引用标准 Reference standards

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

结构 Structure

介质：（金属化）聚丙烯膜

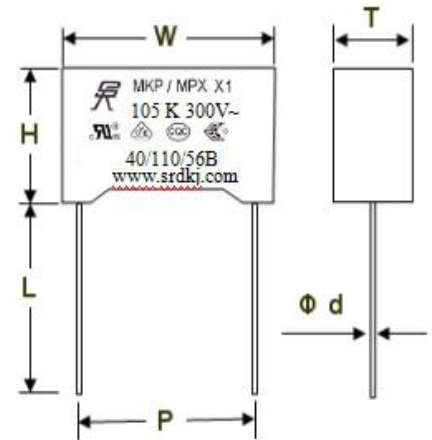
封装：阻燃环氧树脂，符合 UL94 V-0

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 | 300VAC | |
| 容量误差 Capacitance Tolerance | K: $\pm 10\%$ | |
| 容量范围 Capacitance Range | 0.0022 μ F~4.7 μ F Test Condition: 20 $^{\circ}$ C, 1KHz, 1Vrms | |
| 耐电压 Withstand Voltage | Terminal to terminal: 4.3U _R (Vdc),5S Terminal to shell: 2380VAC 60S | No breakdown or electric arcing |
| 损耗角 Dissipation factor | ≤ 0.0020 10KHz C _R $\leq 1.0\mu$ F ≤ 0.0010 1KHz C _R $> 1.0\mu$ F | Test Condition : 20 $^{\circ}$ C 1V |
| 绝缘电阻或时间常数 Insulation Resistance | C _R $\leq 0.33\mu$ F IR $\geq 15000M\Omega$ C _R $> 0.33\mu$ 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=10mm dV / dt = 500V/ μ s P=15mm dV / dt = 400V/ μ s P=22.5mm dV / dt = 200V/ μ s P=27.5mm dV / dt = 150V/ μ s P=31.5mm dV / dt = 100V/ μ s P=41mm dV / dt = 60V/ μ 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 ≤ 0.0080 (10KHz), $C_R \leq 1\mu F$ Rise ≤ 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 | 300VAC | E319615 | UL60384-14 | 美国、加拿大 America / Canada |
| VDE | 300VAC | 40025029 | EN60384-14 | 德国 Germany |
| ENEC | 300VAC | 40025029 | EN60384-14 | 欧盟 Europe |
| CQC | 300VAC | CQC12001070301 | GB/T6346.14-2015 | 中国 China |

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 | 1 | 1 | 0 | 4 | K | 3 | 0 | D | 4 | R | 8 | * | * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | |
|-------------|---------------------------------------|--|
| Digit 1-3 | 型号代码 Product Name Code | MP1= Class X1 Capacitors |
| Digit 4-6 | 标称容量 Rated Capacitance Value | For example : 104= $10 \times 10^4 \text{pF} = 0.1\mu F$ |
| Digit 7 | 容量偏差 Capacitance Tolerance | K=±10% |
| Digit 8-9 | 额定电压 Rated Voltage Code | 30=300VAC |
| 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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(MP1-Class X1 300VAC Series)

料号明细及尺寸 Part No. List and Dimensions

| 成品编码 Part No. | 等级 Class | 电压 Voltage | 容量 Capacitance (μ F) | 尺寸 Dimension (mm) | | | | |
|------------------|-------------|---------------|---------------------------------|-------------------|-------------|-------------|-------------|---------------------|
| | | | | W \pm 0.5 | T \pm 0.5 | H \pm 0.5 | P \pm 0.5 | Φ d \pm 0.05 |
| MP1103K30B1R5LC | X1 | 300VAC | 0.01 | 10 | 4 | 9 | 7.5 | 0.5 |
| MP1103K30C2R6LC | X1 | 300VAC | 0.01 | 13 | 5 | 11 | 10 | 0.6 |
| MP1103K30D1R6LC | X1 | 300VAC | 0.01 | 18 | 5 | 11 | 15 | 0.6 |
| MP1104K30C3R6LC | X1 | 300VAC | 0.1 | 13 | 6 | 12 | 10 | 0.6 |
| MP1104K30D2R8LC | X1 | 300VAC | 0.1 | 18 | 6 | 12 | 15 | 0.8 |
| MP1105K30E6R8LC | X1 | 300VAC | 1.0 | 26 | 12 | 21.5 | 22.5 | 0.8 |
| MP1125K30E6R8LC | X1 | 300VAC | 1.2 | 26 | 12 | 21.5 | 22.5 | 0.8 |
| MP1153K30C2R6LC | X1 | 300VAC | 0.015 | 13 | 5 | 11 | 10 | 0.6 |
| MP1154K30C3R6LC | X1 | 300VAC | 0.15 | 13 | 6 | 12 | 10 | 0.6 |
| MP1103K30B1R5LC | X1 | 300VAC | 0.01 | 10 | 4 | 9 | 7.5 | 0.5 |
| MP1103K30C2R6LC | X1 | 300VAC | 0.01 | 13 | 5 | 11 | 10 | 0.6 |
| MP1103K30D1R6LC | X1 | 300VAC | 0.01 | 18 | 5 | 11 | 15 | 0.6 |
| MP1104K30C3R6LC | X1 | 300VAC | 0.1 | 13 | 6 | 12 | 10 | 0.6 |
| MP1104K30D2R8LC | X1 | 300VAC | 0.1 | 18 | 6 | 12 | 15 | 0.8 |
| MP1105K30E6R8LC | X1 | 300VAC | 1.0 | 26 | 12 | 21.5 | 22.5 | 0.8 |
| MP1125K30E6R8LC | X1 | 300VAC | 1.2 | 26 | 12 | 21.5 | 22.5 | 0.8 |
| MP1153K30C2R6LC | X1 | 300VAC | 0.015 | 13 | 5 | 11 | 10 | 0.6 |
| MP1154K30C3R6LC | X1 | 300VAC | 0.15 | 13 | 6 | 12 | 10 | 0.6 |
| MP1103K30B1R5LC | X1 | 300VAC | 0.01 | 10 | 4 | 9 | 7.5 | 0.5 |
| MP1103K30C2R6LC | X1 | 300VAC | 0.01 | 13 | 5 | 11 | 10 | 0.6 |
| MP1103K30D1R6LC | X1 | 300VAC | 0.01 | 18 | 5 | 11 | 15 | 0.6 |
| MP1104K30C3R6LC | X1 | 300VAC | 0.1 | 13 | 6 | 12 | 10 | 0.6 |
| MP1104K30D2R8LC | X1 | 300VAC | 0.1 | 18 | 6 | 12 | 15 | 0.8 |
| MP1154K30D2R8LC | X1 | 300VAC | 0.15 | 18 | 6 | 12 | 15 | 0.8 |
| MP1155K30E5R8LC | X1 | 300VAC | 1.5 | 26.5 | 11 | 20 | 22.5 | 0.8 |
| MP1223K30C2R6LC | X1 | 300VAC | 0.022 | 13 | 5 | 11 | 10 | 0.6 |
| MP1224K30C3R690 | X1 | 300VAC | 0.22 | 13 | 6 | 12 | 10 | 0.6 |
| MP1224K30D4R8LC | X1 | 300VAC | 0.22 | 18 | 8.4 | 14.5 | 15 | 0.8 |
| MP1224K30E2R8LC | X1 | 300VAC | 0.22 | 26.5 | 7 | 16.5 | 22.5 | 0.8 |
| MP1225K30F3R8LC | X1 | 300VAC | 2.2 | 31 | 14 | 25 | 27.5 | 0.8 |
| MP1333K30C2R6LC | X1 | 300VAC | 0.033 | 13 | 5 | 11 | 10 | 0.6 |
| MP1334K30D4R8LC | X1 | 300VAC | 0.33 | 18 | 8.4 | 14.5 | 15 | 0.8 |
| MP1335K30F8R8LC | X1 | 300VAC | 3.3 | 31.5 | 21 | 31 | 27.5 | 0.8 |

说明 Note: “***”表示内部特征码

“***”=Internal use.



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(MP1-Class X1 300VAC Series)

料号明细及尺寸 Part No. List and Dimensions

| 成品编码 Part No. | 等级 Class | 电压 Voltage | 容量 Capacitance (μ F) | 尺寸 Dimension (mm) | | | | |
|------------------|-------------|---------------|---------------------------------|-------------------|-------------|-------------|-------------|---------------------|
| | | | | W \pm 0.5 | T \pm 0.5 | H \pm 0.5 | P \pm 0.5 | Φ d \pm 0.05 |
| MP1394K30D6R8LC | X1 | 300VAC | 0.39 | 18 | 10 | 15.8 | 15 | 0.8 |
| MP1472K30C2R6LC | X1 | 300VAC | 0.0047 | 13 | 5 | 11 | 10 | 0.6 |
| MP1473K30C2R6LC | X1 | 300VAC | 0.047 | 13 | 5 | 11 | 10 | 0.6 |
| MP1474K30D6R8LC | X1 | 300VAC | 0.47 | 18 | 10 | 15.8 | 15 | 0.8 |
| MP1474K30E4R8LC | X1 | 300VAC | 0.47 | 26.5 | 10 | 19 | 22.5 | 0.8 |
| MP1474K30F1R8LC | X1 | 300VAC | 0.47 | 31.5 | 10.8 | 19.5 | 27.5 | 0.8 |
| MP1564K30E4R8LC | X1 | 300VAC | 0.56 | 26.5 | 10 | 19 | 22.5 | 0.8 |
| MP1683K30C2R6LC | X1 | 300VAC | 0.068 | 13 | 5 | 11 | 10 | 0.6 |
| MP1683K30C3R6LC | X1 | 300VAC | 0.068 | 13 | 6 | 12 | 10 | 0.6 |
| MP1684K30D8R8LC | X1 | 300VAC | 0.68 | 18 | 11.2 | 19.2 | 15 | 0.8 |
| MP1394K30D6R8LC | X1 | 300VAC | 0.39 | 18 | 10 | 15.8 | 15 | 0.8 |
| MP1472K30C2R6LC | X1 | 300VAC | 0.0047 | 13 | 5 | 11 | 10 | 0.6 |
| MP1473K30C2R6LC | X1 | 300VAC | 0.047 | 13 | 5 | 11 | 10 | 0.6 |
| MP1474K30D6R8LC | X1 | 300VAC | 0.47 | 18 | 10 | 15.8 | 15 | 0.8 |
| MP1474K30E4R8LC | X1 | 300VAC | 0.47 | 26.5 | 10 | 19 | 22.5 | 0.8 |
| MP1474K30F1R8LC | X1 | 300VAC | 0.47 | 31.5 | 10.8 | 19.5 | 27.5 | 0.8 |
| MP1564K30E4R8LC | X1 | 300VAC | 0.56 | 26.5 | 10 | 19 | 22.5 | 0.8 |
| MP1683K30C2R6LC | X1 | 300VAC | 0.068 | 13 | 5 | 11 | 10 | 0.6 |
| MP1683K30C3R6LC | X1 | 300VAC | 0.068 | 13 | 6 | 12 | 10 | 0.6 |

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Note: We can customize the capacitors according to customers special requirements.

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