



# 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

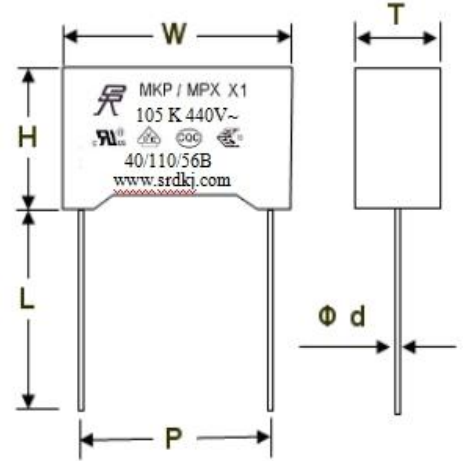
### (MP1-Class X1 440VAC Series)

#### 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；耐高温 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                            | 440VAC  |                                  |
| 容量误差 Capacitance Tolerance                    | K: ±10%   |                                  |
| 容量范围<br>Capacitance Range                     | 0.0022μF~4.7μF<br>Test Condition: 20°C, 1KHz, 1Vrms   |                                  |
| 耐电压<br>Withstand Voltage                      | Terminal to terminal: 4.3U <sub>R</sub> (Vdc),5S<br>Terminal to shell: 2380VAC 60S  | No breakdown or electric arcing  |
| 损耗角<br>Dissipation factor                     | ≤0.0020 10KHz C <sub>R</sub> ≤1.0μF<br>≤0.0010 1KHz C <sub>R</sub> >1.0μF   | Test Condition : 20°C 1V         |
| 绝缘电阻或时间常数<br>Insulation Resistance            | C <sub>R</sub> ≤0.33μF IR≥15000MΩ<br>C <sub>R</sub> >0.33μF IR≥5000S  | Test Condition : 20°C 100V 1 min |
| 最大脉冲爬升速率<br>Max. Pulse Rise Time<br>(dV / dt) | P=10mm dV / dt = 500V/μs<br>P=15mm dV / dt = 400V/μs<br>P=22.5mm dV / dt = 200V/μs<br>P=27.5mm dV / dt = 150V/μs<br>P=37.5mm dV / dt = 80V/μs |                                  |



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### (MP1-Class X1 440VAC Series)

#### 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(每小时增加<br>电压到 1000Vac, 0.1 秒, 1 次)<br>Test Voltage:<br>1.25 Times Rated Voltage ( Rise the<br>voltage to 1000Vac for .01s once<br>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                | 440VAC                | E319615                 | UL60384-14                 | 美国、加拿大<br>America / Canada    |
| VDE                   | 440VAC                | 40025029                | EN60384-14                 | 德国 Germany                    |
| ENEC                  | 440VAC                | 40025029                | EN60384-14                 | 欧盟 Europe                     |
| CQC                   | 440VAC                | CQC09001032856          | 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 | 4 | 4 | D | 6 | 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               | 44=440VAC  |
| 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 440VAC Series)

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

| 成品编码<br>Part No. | 等级<br>Class | 电压<br>Voltage | 容量<br>Capacitance<br>( $\mu$ F) | 尺寸 Dimension (mm) |             |             |             |                     |
|------------------|-------------|---------------|---------------------------------|-------------------|-------------|-------------|-------------|---------------------|
|                  |             |               |                                 | W $\pm$ 0.5       | T $\pm$ 0.5 | H $\pm$ 0.5 | P $\pm$ 0.5 | $\Phi$ d $\pm$ 0.05 |
| MP1222K44B2R6**  | X1          | 440VAC        | 0.0022                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1272K44B2R6**  | X1          | 440VAC        | 0.0027                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1332K44B2R6**  | X1          | 440VAC        | 0.0033                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1392K44B2R6**  | X1          | 440VAC        | 0.0039                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1472K44B2R6**  | X1          | 440VAC        | 0.0047                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1562K44B2R6**  | X1          | 440VAC        | 0.0056                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1682K44B2R6**  | X1          | 440VAC        | 0.0068                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1822K44B2R6**  | X1          | 440VAC        | 0.0082                          | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1103K44B2R6**  | X1          | 440VAC        | 0.01                            | 10                | 5           | 11          | 7.5         | 0.6                 |
| MP1123K44B3R6**  | X1          | 440VAC        | 0.012                           | 10                | 6           | 12          | 7.5         | 0.6                 |
| MP1222K44C2R6**  | X1          | 440VAC        | 0.0022                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1272K44C2R6**  | X1          | 440VAC        | 0.0027                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1332K44C2R6**  | X1          | 440VAC        | 0.0033                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1392K44C2R6**  | X1          | 440VAC        | 0.0039                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1472K44C2R6**  | X1          | 440VAC        | 0.0047                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1562K44C2R6**  | X1          | 440VAC        | 0.0056                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1682K44C2R6**  | X1          | 440VAC        | 0.0068                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1822K44C2R6**  | X1          | 440VAC        | 0.0082                          | 13                | 5           | 11          | 10          | 0.6                 |
| MP1103K44C2R6**  | X1          | 440VAC        | 0.01                            | 13                | 5           | 11          | 10          | 0.6                 |
| MP1123K44C2R6**  | X1          | 440VAC        | 0.012                           | 13                | 5           | 11          | 10          | 0.6                 |
| MP1153K44C2R6**  | X1          | 440VAC        | 0.015                           | 13                | 5           | 11          | 10          | 0.6                 |
| MP1183K44C2R6**  | X1          | 440VAC        | 0.018                           | 13                | 5           | 11          | 10          | 0.6                 |
| MP1273K44C3R6**  | X1          | 440VAC        | 0.027                           | 13                | 6           | 12          | 10          | 0.6                 |
| MP1223K44CDR6**  | X1          | 440VAC        | 0.023                           | 12.5              | 5           | 13          | 10          | 0.6                 |
| MP1333K44CGR6**  | X1          | 440VAC        | 0.033                           | 12.5              | 6           | 15.5        | 10          | 0.6                 |
| MP1103K44D2R8**  | X1          | 440VAC        | 0.01                            | 18                | 6           | 12          | 15          | 0.8                 |
| MP1123K44D2R8**  | X1          | 440VAC        | 0.012                           | 18                | 6           | 12          | 15          | 0.8                 |
| MP1153K44D2R8**  | X1          | 440VAC        | 0.015                           | 18                | 6           | 12          | 15          | 0.8                 |
| MP1183K44D2R8**  | X1          | 440VAC        | 0.018                           | 18                | 6           | 12          | 15          | 0.8                 |
| MP1223K44D2R8**  | X1          | 440VAC        | 0.022                           | 18                | 6           | 12          | 15          | 0.8                 |
| MP1273K44D2R8**  | X1          | 440VAC        | 0.027                           | 18                | 6           | 12          | 15          | 0.8                 |
| MP1333K44D2R8**  | X1          | 440VAC        | 0.033                           | 18                | 6           | 12          | 15          | 0.8                 |
| MP1393K44D2R8**  | X1          | 440VAC        | 0.039                           | 18                | 6           | 12          | 15          | 0.8                 |
| MP1473K44DDR8**  | X1          | 440VAC        | 0.047                           | 17.5              | 6           | 15.5        | 15          | 0.8                 |

说明 Note: “\*\*”表示内部特征码

“\*\*”=Internal use.



# 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 440VAC Series)

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

| 成品编码<br>Part No. | 等级<br>Class | 电压<br>Voltage | 容量<br>Capacitance<br>( $\mu$ F) | 尺寸 Dimension (mm) |             |             |             |                     |
|------------------|-------------|---------------|---------------------------------|-------------------|-------------|-------------|-------------|---------------------|
|                  |             |               |                                 | W $\pm$ 0.5       | T $\pm$ 0.5 | H $\pm$ 0.5 | P $\pm$ 0.5 | $\Phi$ d $\pm$ 0.05 |
| MP1563K44DDR8**  | X1          | 440VAC        | 0.056                           | 17.5              | 6           | 15.5        | 15          | 0.8                 |
| MP1683K44DGR8**  | X1          | 440VAC        | 0.068                           | 17.5              | 7           | 17.5        | 15          | 0.8                 |
| MP1823K44DGR8**  | X1          | 440VAC        | 0.082                           | 17.5              | 7           | 17.5        | 15          | 0.8                 |
| MP1104K44DKR8**  | X1          | 440VAC        | 0.1                             | 17.5              | 8           | 18.5        | 15          | 0.8                 |
| MP1124K44DNR8**  | X1          | 440VAC        | 0.12                            | 17.5              | 9           | 19.5        | 15          | 0.8                 |
| MP1154K44DRR8**  | X1          | 440VAC        | 0.15                            | 17.5              | 10          | 22.5        | 15          | 0.8                 |
| MP1184K44DRR8**  | X1          | 440VAC        | 0.18                            | 17.5              | 10          | 22.5        | 15          | 0.8                 |
| MP1224K44DUR8**  | X1          | 440VAC        | 0.22                            | 17.5              | 11          | 23.5        | 15          | 0.8                 |
| MP1393K44E2R8**  | X1          | 440VAC        | 0.039                           | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1473K44E2R8**  | X1          | 440VAC        | 0.047                           | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1563K44E2R8**  | X1          | 440VAC        | 0.056                           | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1683K44E2R8**  | X1          | 440VAC        | 0.068                           | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1823K44E2R8**  | X1          | 440VAC        | 0.082                           | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1104K44E2R8**  | X1          | 440VAC        | 0.1                             | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1124K44E2R8**  | X1          | 440VAC        | 0.12                            | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1154K44E2R8**  | X1          | 440VAC        | 0.15                            | 26.5              | 7           | 16.5        | 22.5        | 0.8                 |
| MP1184K44E3R8**  | X1          | 440VAC        | 0.18                            | 26.5              | 8.5         | 17          | 22.5        | 0.8                 |
| MP1224K44E3R8**  | X1          | 440VAC        | 0.22                            | 26.5              | 8.5         | 17          | 22.5        | 0.8                 |
| MP1274K44E4R8**  | X1          | 440VAC        | 0.27                            | 26.5              | 10          | 19          | 22.5        | 0.8                 |
| MP1334K44E5R8**  | X1          | 440VAC        | 0.33                            | 26.5              | 11          | 20          | 22.5        | 0.8                 |
| MP1394K44E6R8**  | X1          | 440VAC        | 0.39                            | 26.5              | 12          | 21.5        | 22.5        | 0.8                 |
| MP1474K44E7R8**  | X1          | 440VAC        | 0.47                            | 26.5              | 13          | 23          | 22.5        | 0.8                 |
| MP1154K44F1R8**  | X1          | 440VAC        | 0.15                            | 31.5              | 10.8        | 19.5        | 27.5        | 0.8                 |
| MP1184K44F1R8**  | X1          | 440VAC        | 0.18                            | 31.5              | 10.8        | 19.5        | 27.5        | 0.8                 |
| MP1224K44F1R8**  | X1          | 440VAC        | 0.22                            | 31.5              | 10.8        | 19.5        | 27.5        | 0.8                 |
| MP1274K44F1R8**  | X1          | 440VAC        | 0.27                            | 31.5              | 10.8        | 19.5        | 27.5        | 0.8                 |
| MP1334K44F1R8**  | X1          | 440VAC        | 0.33                            | 31.5              | 10.8        | 19.5        | 27.5        | 0.8                 |
| MP1394K44F1R8**  | X1          | 440VAC        | 0.39                            | 31.5              | 10.8        | 19.5        | 27.5        | 0.8                 |
| MP1474K44F2R8**  | X1          | 440VAC        | 0.47                            | 31.5              | 13          | 21.5        | 27.5        | 0.8                 |
| MP1564K44F2R8**  | X1          | 440VAC        | 0.56                            | 31.5              | 13          | 21.5        | 27.5        | 0.8                 |
| MP1684K44F3R8**  | X1          | 440VAC        | 0.68                            | 31                | 14          | 25          | 27.5        | 0.8                 |
| MP1824K44F4R8**  | X1          | 440VAC        | 0.82                            | 31.5              | 16          | 25.5        | 27.5        | 0.8                 |
| MP1105K44F5R8**  | X1          | 440VAC        | 1.0                             | 31.5              | 16          | 30          | 27.5        | 0.8                 |

说明 Note: “\*\*”表示内部特征码

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**金属化聚丙烯膜抑制电磁电源干扰用电容器**  
**(MP1-Class X1 440VAC Series)**

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

| 成品编码<br>Part No. | 等级<br>Class | 电压<br>Voltage | 容量<br>Capacitance<br>( $\mu$ F) | 尺寸 Dimension (mm) |             |             |             |                     |
|------------------|-------------|---------------|---------------------------------|-------------------|-------------|-------------|-------------|---------------------|
|                  |             |               |                                 | W $\pm$ 0.5       | T $\pm$ 0.5 | H $\pm$ 0.5 | P $\pm$ 0.5 | $\Phi$ d $\pm$ 0.05 |
| MP1125K44F6R8**  | X1          | 440VAC        | 1.2                             | 31                | 18          | 33          | 27.5        | 0.8                 |
| MP1155K44F6R8**  | X1          | 440VAC        | 1.5                             | 31                | 18          | 33          | 27.5        | 0.8                 |
| MP1334K44S0R1**  | X1          | 440VAC        | 0.33                            | 41                | 11          | 22          | 37.5        | 1.0                 |
| MP1394K44S0R1**  | X1          | 440VAC        | 0.39                            | 41                | 11          | 22          | 37.5        | 1.0                 |
| MP1474K44S0R1**  | X1          | 440VAC        | 0.47                            | 41                | 11          | 22          | 37.5        | 1.0                 |
| MP1564K44S0R1**  | X1          | 440VAC        | 0.56                            | 41                | 11          | 22          | 37.5        | 1.0                 |
| MP1684K44S0R1**  | X1          | 440VAC        | 0.68                            | 41                | 11          | 22          | 37.5        | 1.0                 |
| MP1824K44S1R1**  | X1          | 440VAC        | 0.82                            | 41                | 12          | 26          | 37.5        | 1.0                 |
| MP1105K44S1R1**  | X1          | 440VAC        | 1.0                             | 41                | 12          | 26          | 37.5        | 1.0                 |
| MP1125K44S2R1**  | X1          | 440VAC        | 1.2                             | 41                | 14          | 28          | 37.5        | 1.0                 |
| MP1155K44S3R1**  | X1          | 440VAC        | 1.5                             | 41                | 16          | 30          | 37.5        | 1.0                 |
| MP1185K44S4R1**  | X1          | 440VAC        | 1.8                             | 41                | 17          | 32          | 37.5        | 1.0                 |
| MP1205K44S5R1**  | X1          | 440VAC        | 2.0                             | 41                | 18.5        | 33.5        | 37.5        | 1.0                 |
| MP1225K44S5R1**  | X1          | 440VAC        | 2.2                             | 41                | 18.5        | 33.5        | 37.5        | 1.0                 |
| MP1255K44S6R1**  | X1          | 440VAC        | 2.5                             | 41                | 22          | 37          | 37.5        | 1.0                 |
| MP1275K44S6R1**  | X1          | 440VAC        | 2.7                             | 41                | 22          | 37          | 37.5        | 1.0                 |
| MP1305K44S7R1**  | X1          | 440VAC        | 3.0                             | 41                | 26          | 41          | 37.5        | 1.0                 |
| MP1335K44S7R1**  | X1          | 440VAC        | 3.3                             | 41                | 26          | 41          | 37.5        | 1.0                 |
| MP1355K44S7R1**  | X1          | 440VAC        | 3.5                             | 41                | 26          | 41          | 37.5        | 1.0                 |
| MP1395K44S7R1**  | X1          | 440VAC        | 3.9                             | 41                | 26          | 41          | 37.5        | 1.0                 |
| MP1405K44S8R1**  | X1          | 440VAC        | 4.0                             | 41                | 28          | 43          | 37.5        | 1.0                 |
| MP1455K44S9R1**  | X1          | 440VAC        | 4.5                             | 42                | 30          | 45          | 37.5        | 1.0                 |
| MP1475K44S9R1**  | X1          | 440VAC        | 4.7                             | 42                | 30          | 45          | 37.5        | 1.0                 |

说明 Note: “\*\*”表示内部特征码

“\*\*\*”=Internal use.

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

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Largest Supplier of Electrical and Electronic Components

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