

## MPB-A series / Metallized polypropylene film A.C. capacitor for capacitive divider

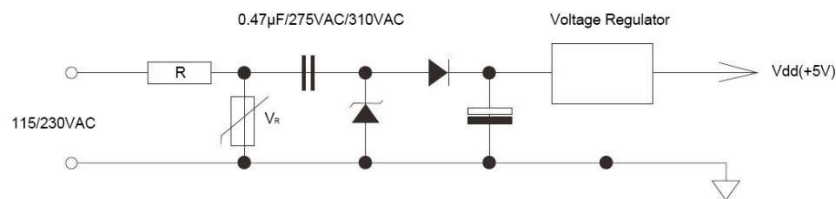
## ■ General Technical Characteristics 一般特性

Metallized polypropylene film  
 金属化聚丙烯膜  
 Good self-healing properties, withstanding surge voltage stressing  
 自愈性能优异, 能承受过电压冲击  
 Long stability of capacitance  
 长期负载下优异的电容容量稳定性  
 Good properties in damp environment, excellent active and passive flame resistant abilities  
 优异的防潮性能和阻燃性能

## ■ Applications 应用

This is specifically designed for applications in serial with the main, i.e.: capacitive divider, for examples, energy meter, LED driver etc.  
 专门设计用于与电源串联的电容降压电路场合, 如电表、LED驱动模块等。

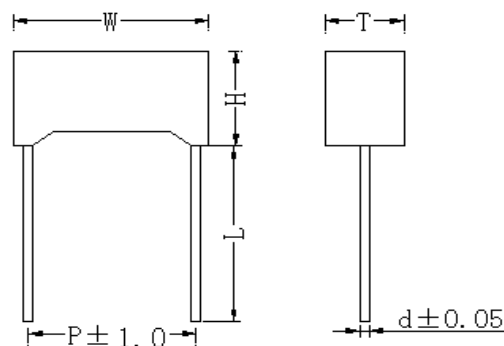
## ■ Typical Circuit 典型电路



## ■ Electrical Characteristics 电气特性

Reference Standard 引用标准: GB/T 14579 (IEC60384-7)  
 Climatic Category 气候类别: 40/105/56  
 Rated Temperature 额定温度: 85°C  
 Operating Temperature Range: -40°C ~ 105°C  
 工作温度范围: (+85°C to +105°C: decreasing factor 1.25% per °C for  $U_R$ )  
 Rated Voltage 额定电压: 400VDC(230VAC), 560VDC(250VAC), 630VDC(275VAC/305VAC/310VAC)  
 Capacitance Range 电容量范围: 0.001μF ~ 4.7μF  
 Capacitance Tolerance 电容量偏差: ±5% (J), ±10% (K)  
 Dissipation Factor 损耗角正切:  $\leq 10 \times 10^{-4}$  Measured at 1KHz and 20°C.  
 Test Voltage 耐电压: 1.6 $U_R$  for 5 sec.  
 Insulation Resistance 绝缘电阻:  $\geq 15\ 000\ \text{M}\Omega$ , for  $C_N \leq 0.33\ \mu\text{F}$   
 $\geq 5\ 000\ \text{s}$ , for  $C_N > 0.33\ \mu\text{F}$  Measured at 20°C, 100V and 1 min.

## ■ Outline Drawing 外形图



## ■ Part Number System 产品编码说明

| K6F          | L2        | 333          | K          | G           | L                             | 0          | 20           | ***           |
|--------------|-----------|--------------|------------|-------------|-------------------------------|------------|--------------|---------------|
| 型号代码         | 额定电压      | 标称容量         | 容量偏差       | 引线脚距P       | 引线加工/包装代码                     | 引线加工脚距     | 引线长度         | 内部编码          |
| Series Code: | Voltage:  | Capacitance: | Cap. Tol.: | Lead Space: | Lead form and packaging code: | Lead type: | Lead length: | Internal code |
| K6F:         | L2=230VAC | 104: 0.1μF   | J: ± 5%    | E=7.5mm     | L=straight lead               | 0=none     | 05=5mm       |               |
| MPB-A Series | E2=250VAC | 105: 1.0μF   | K: ± 10%   | F=10.0mm    |                               |            | 20=20mm      |               |
|              | P2=275VAC |              |            | H=15.0mm    |                               |            |              |               |
|              | Q1=300VAC |              |            | J=22.5mm    |                               |            |              |               |
|              |           |              |            | L=27.5mm    |                               |            |              |               |

## MPB-A series / Metallized polypropylene film A.C. capacitor for capacitive divider

## ■ Electrical Specification &amp; Part Numbers Reference 规格型号参考

Unit: mm (max)

| Cap.<br>(μF) | 230VAC |      |      |      |     | Part Number   |
|--------------|--------|------|------|------|-----|---------------|
|              | W      | H    | T    | P    | d   |               |
| 0.033        | 10.5   | 11.0 | 5.0  | 7.5  | 0.6 | K6FL2333***** |
| 0.047        | 10.5   | 12.0 | 6.0  | 7.5  | 0.6 | K6FL2473***** |
| 0.033        | 13.0   | 9.0  | 4.0  | 10.0 | 0.6 | K6FL2333***** |
| 0.047        | 13.0   | 11.0 | 5.0  | 10.0 | 0.6 | K6FL2473***** |
| 0.068        | 13.0   | 12.0 | 6.0  | 10.0 | 0.6 | K6FL2683***** |
| 0.10         | 13.0   | 12.0 | 6.0  | 10.0 | 0.6 | K6FL2104***** |
| 0.10         | 17.5   | 11.0 | 5.0  | 15.0 | 0.6 | K6FL2104***** |
| 0.15         | 17.5   | 12.0 | 6.0  | 15.0 | 0.6 | K6FL2154***** |
| 0.22         | 17.5   | 13.5 | 7.5  | 15.0 | 0.6 | K6FL2224***** |
| 0.33         | 17.5   | 14.5 | 8.5  | 15.0 | 0.6 | K6FL2334***** |
| 0.47         | 17.5   | 16.0 | 10.0 | 15.0 | 0.8 | K6FL2474***** |
| 0.33         | 26.5   | 15.0 | 6.0  | 22.5 | 0.8 | K6FL2334***** |
| 0.47         | 26.5   | 16.0 | 7.0  | 22.5 | 0.8 | K6FL2474***** |
| 0.56         | 26.5   | 17.0 | 8.5  | 22.5 | 0.8 | K6FL2564***** |
| 0.68         | 26.5   | 17.0 | 8.5  | 22.5 | 0.8 | K6FL2684***** |
| 0.82         | 26.5   | 18.5 | 10.0 | 22.5 | 0.8 | K6FL2824***** |
| 1.0          | 26.5   | 20.0 | 11.0 | 22.5 | 0.8 | K6FL2105***** |
| 1.2          | 26.5   | 20.0 | 11.0 | 22.5 | 0.8 | K6FL2125***** |
| 1.5          | 26.5   | 22.0 | 12.0 | 22.5 | 0.8 | K6FL2155***** |
| 0.47         | 32.0   | 18.0 | 9.0  | 27.5 | 0.8 | K6FL2474***** |
| 0.56         | 32.0   | 18.0 | 9.0  | 27.5 | 0.8 | K6FL2564***** |
| 0.68         | 32.0   | 18.0 | 9.0  | 27.5 | 0.8 | K6FL2684***** |
| 1.0          | 32.0   | 18.0 | 9.0  | 27.5 | 0.8 | K6FL2105***** |
| 1.2          | 32.0   | 20.0 | 11.0 | 27.5 | 0.8 | K6FL2125***** |
| 1.5          | 32.0   | 20.0 | 11.0 | 27.5 | 0.8 | K6FL2155***** |
| 2.0          | 32.0   | 22.0 | 13.0 | 27.5 | 0.8 | K6FL2205***** |
| 2.2          | 32.0   | 24.5 | 15.0 | 27.5 | 0.8 | K6FL2225***** |
| 3.0          | 32.0   | 33.0 | 18.0 | 27.5 | 0.8 | K6FL2305***** |
| 3.3          | 32.0   | 33.0 | 18.0 | 27.5 | 0.8 | K6FL2335***** |
| 4.0          | 32.0   | 33.0 | 18.0 | 27.5 | 0.8 | K6FL2405***** |
| 4.7          | 32.0   | 37.0 | 22.0 | 27.5 | 0.8 | K6FL2475***** |

| Cap.<br>(μF) | 250VAC |      |      |      |     | Part Number   |
|--------------|--------|------|------|------|-----|---------------|
|              | W      | H    | T    | P    | d   |               |
| 0.010        | 13.0   | 9.0  | 4.0  | 10.0 | 0.6 | K6FE2103***** |
| 0.015        | 13.0   | 9.0  | 4.0  | 10.0 | 0.6 | K6FE2153***** |
| 0.022        | 13.0   | 9.0  | 4.0  | 10.0 | 0.6 | K6FE2223***** |
| 0.033        | 13.0   | 11.0 | 5.0  | 10.0 | 0.6 | K6FE2333***** |
| 0.047        | 13.0   | 11.0 | 5.0  | 10.0 | 0.6 | K6FE2473***** |
| 0.068        | 13.0   | 12.0 | 6.0  | 10.0 | 0.6 | K6FE2683***** |
| 0.068        | 17.5   | 11.0 | 5.0  | 15.0 | 0.6 | K6FE2683***** |
| 0.10         | 17.5   | 12.0 | 6.0  | 15.0 | 0.6 | K6FE2104***** |
| 0.15         | 17.5   | 13.5 | 7.5  | 15.0 | 0.6 | K6FE2154***** |
| 0.22         | 17.5   | 14.5 | 8.5  | 15.0 | 0.6 | K6FE2224***** |
| 0.33         | 17.5   | 16.0 | 10.0 | 15.0 | 0.8 | K6FE2334***** |
| 0.22         | 26.5   | 15.0 | 6.0  | 22.5 | 0.8 | K6FE2224***** |
| 0.33         | 26.5   | 16.0 | 7.0  | 22.5 | 0.8 | K6FE2334***** |
| 0.39         | 26.5   | 17.0 | 8.5  | 22.5 | 0.8 | K6FE2394***** |
| 0.47         | 26.5   | 17.0 | 8.5  | 22.5 | 0.8 | K6FE2474***** |
| 0.56         | 26.5   | 18.5 | 10.0 | 22.5 | 0.8 | K6FE2564***** |
| 0.68         | 26.5   | 18.5 | 10.0 | 22.5 | 0.8 | K6FE2684***** |
| 0.82         | 26.5   | 20.0 | 11.0 | 22.5 | 0.8 | K6FE2824***** |
| 1.0          | 26.5   | 22.0 | 12.0 | 22.5 | 0.8 | K6FE2105***** |
| 1.2          | 26.5   | 24.5 | 15.5 | 22.5 | 0.8 | K6FE2125***** |
| 1.5          | 26.5   | 24.5 | 15.5 | 22.5 | 0.8 | K6FE2155***** |
| 0.47         | 32.0   | 18.0 | 9.0  | 27.5 | 0.8 | K6FE2474***** |
| 0.56         | 32.0   | 18.0 | 9.0  | 27.5 | 0.8 | K6FE2564***** |
| 0.68         | 32.0   | 18.0 | 9.0  | 27.5 | 0.8 | K6FE2684***** |
| 1.0          | 32.0   | 20.0 | 11.0 | 27.5 | 0.8 | K6FE2105***** |
| 1.2          | 32.0   | 22.0 | 13.0 | 27.5 | 0.8 | K6FE2125***** |
| 1.5          | 32.0   | 25.0 | 13.0 | 27.5 | 0.8 | K6FE2155***** |
| 2.0          | 32.0   | 33.0 | 18.0 | 27.5 | 0.8 | K6FE2205***** |
| 2.2          | 32.0   | 33.0 | 18.0 | 27.5 | 0.8 | K6FE2225***** |
| 3.0          | 32.0   | 33.0 | 18.0 | 27.5 | 0.8 | K6FE2305***** |
| 3.3          | 32.0   | 33.0 | 18.0 | 27.5 | 0.8 | K6FE2335***** |
| 4.0          | 32.0   | 37.0 | 22.0 | 27.5 | 0.8 | K6FE2405***** |

| Cap.<br>(μF) | 275VAC/300VAC |      |      |      |     | Part Number   |
|--------------|---------------|------|------|------|-----|---------------|
|              | W             | H    | T    | P    | d   |               |
| 0.010        | 13.0          | 9.0  | 4.0  | 10.0 | 0.6 | K6FP2103***** |
| 0.015        | 13.0          | 11.0 | 5.0  | 10.0 | 0.6 | K6FP2153***** |
| 0.022        | 13.0          | 12.0 | 6.0  | 10.0 | 0.6 | K6FP2223***** |
| 0.033        | 13.0          | 12.0 | 6.0  | 10.0 | 0.6 | K6FP2333***** |
| 0.010        | 17.5          | 11.0 | 5.0  | 15.0 | 0.6 | K6FP2103***** |
| 0.015        | 17.5          | 11.0 | 5.0  | 15.0 | 0.6 | K6FP2153***** |
| 0.022        | 17.5          | 11.0 | 5.0  | 15.0 | 0.6 | K6FP2223***** |
| 0.033        | 17.5          | 11.0 | 5.0  | 15.0 | 0.6 | K6FP2333***** |
| 0.047        | 17.5          | 12.0 | 6.0  | 15.0 | 0.6 | K6FP2473***** |
| 0.068        | 17.5          | 13.5 | 7.5  | 15.0 | 0.6 | K6FP2683***** |
| 0.10         | 17.5          | 14.5 | 8.5  | 15.0 | 0.6 | K6FP2104***** |
| 0.15         | 17.5          | 16.0 | 10.0 | 15.0 | 0.8 | K6FP2154***** |
| 0.22         | 17.5          | 19.0 | 11.0 | 15.0 | 0.8 | K6FP2224***** |
| 0.068        | 26.5          | 15.0 | 6.0  | 22.5 | 0.8 | K6FP2683***** |
| 0.10         | 26.5          | 15.0 | 6.0  | 22.5 | 0.8 | K6FP2104***** |
| 0.15         | 26.5          | 16.0 | 7.0  | 22.5 | 0.8 | K6FP2154***** |
| 0.22         | 26.5          | 17.0 | 8.5  | 22.5 | 0.8 | K6FP2224***** |
| 0.33         | 32.0          | 18.5 | 10.0 | 22.5 | 0.8 | K6FP2334***** |
| 0.39         | 32.0          | 20.0 | 11.0 | 22.5 | 0.8 | K6FP2394***** |
| 0.47         | 32.0          | 22.0 | 12.0 | 22.5 | 0.8 | K6FP2474***** |
| 0.22         | 32.0          | 18.0 | 9.0  | 27.5 | 0.8 | K6FP2224***** |
| 0.33         | 32.0          | 18.0 | 9.0  | 27.5 | 0.8 | K6FP2334***** |
| 0.56         | 32.0          | 22.0 | 13.0 | 27.5 | 0.8 | K6FP2564***** |
| 0.47         | 32.0          | 20.0 | 11.0 | 27.5 | 0.8 | K6FP2474***** |
| 0.68         | 32.0          | 22.0 | 13.0 | 27.5 | 0.8 | K6FP2684***** |
| 1.0          | 32.0          | 28.0 | 14.0 | 27.5 | 0.8 | K6FP2105***** |
| 1.5          | 32.0          | 33.0 | 18.0 | 27.5 | 0.8 | K6FP2155***** |
| 2.2          | 32.0          | 37.0 | 22.0 | 27.5 | 0.8 | K6FP2225***** |

备注：

1. "\*\*\*\*\*" = Capacitance tolerance code, Pitch, Lead form and packaging code, Lead form, Lead length, Internal code.  
"\*\*\*\*\*" 表示容量偏差，引线脚距，引线加工和包装代码，引线加工脚距，引线长度，内部编码。
2. Customization for special specification and requirement is available.