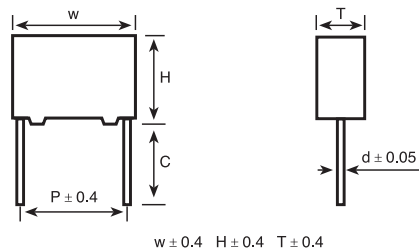




# C29

## 电容降压专用金属化聚酯膜交流电容器 Metallized polyester film A.C.capacitor for capacitive divider

### ■ 外形图 Outline Drawing



### ■ 特点

- 专门设计用于与电源串联的电容降压电路场合，如LED模块等。
- 金属化聚酯膜内串式结构
- 自愈性能优异，能承受过电压冲击
- 长期负载下优异的电容容量稳定性
- 优异的防潮性能
- 优异的阻燃性能

### ■ Features

- This is specifically designed for applications in serial with the main, i.e.: capacitive divider, for example, LED driver etc.
- Metallized polyester with series construction
- Good self-healing properties,withstanding overvoltage stressing
- Long stability of capacitance
- Good properties in damp environment
- Excellent active and passive flame resistant abilities

### ■ 技术要求 Specifications

|                                                                |                                    |                                                                                                               |                                     |                                       |
|----------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|
| 引用标准 Reference Standard                                        |                                    | GB/T 14472 (IEC 60384–14)                                                                                     |                                     |                                       |
| 气候类别 / 阻燃等级<br>Climatic Category/Passive Flammability Category |                                    | 55/105/56/B                                                                                                   |                                     |                                       |
| 额定温度 Rated temperature                                         |                                    | 85℃                                                                                                           |                                     |                                       |
| 工作温度范围<br>Operating Temperature Range                          |                                    | –55℃ ~ +105℃<br>(+85℃ to +105℃: decreasing factor 1.25% per ℃ for U <sub>R</sub> )                            |                                     |                                       |
| 额定电压 Rated Voltage ( U <sub>R</sub> )                          |                                    | 275Vac, 50/60Hz                                                                                               | 300Vac, 50/60Hz                     |                                       |
| 最大连续直流电压<br>Maximum continuous DC voltage                      |                                    | 450Vdc                                                                                                        | 560Vdc                              |                                       |
| 电容量范围 Capacitance Range                                        |                                    | 0.033μF ~ 10.0μF                                                                                              | 0.022μF ~ 10.0μF                    |                                       |
| 耐电压 Voltage Proof                                              | 引线之间<br>Between Terminals:         | 860Vdc (2s)                                                                                                   | 1180Vdc (2s)                        |                                       |
|                                                                | 极壳之间<br>Between Terminals To Case: | 2 050Vac (1min)                                                                                               | 2 100Vac (1min)                     |                                       |
| 电容量偏差 Capacitance Tolerance                                    |                                    | ± 5%(J), ± 10%(K), ± 20%(M)                                                                                   |                                     |                                       |
| 绝缘电阻 Insulation Resistance                                     |                                    | R ≥ 30 000MΩ, C <sub>N</sub> ≤ 0.33μF<br>RC <sub>N</sub> ≥ 10 000s, C <sub>N</sub> > 0.33μF (20℃ ,100V, 1min) |                                     |                                       |
| 损耗角正切 Dissipation Factor                                       |                                    | 0.022μF ≤ C <sub>N</sub> ≤ 0.1μF                                                                              | ≤ 75 x 10 <sup>–4</sup> (1kHz,20℃ ) | ≤ 110 x 10 <sup>–4</sup> (10kHz,20℃ ) |
|                                                                |                                    | 0.10μF < C <sub>N</sub> ≤ 0.47μF                                                                              | ≤ 75 x 10 <sup>–4</sup> (1kHz,20℃ ) | ≤ 120 x 10 <sup>–4</sup> (10kHz,20℃ ) |
|                                                                |                                    | 0.47μF < C <sub>N</sub> ≤ 10.0μF                                                                              | ≤ 75 x 10 <sup>–4</sup> (1kHz,20℃ ) | ≤ 150 x 10 <sup>–4</sup> (10kHz,20℃ ) |

## 产品编码说明 Part number system

### ■ 18位产品代码如下:

The 18 digits part number is formed as follow:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| C | 2 | 9 |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |

|         |                                      |                |                                               |
|---------|--------------------------------------|----------------|-----------------------------------------------|
| 第1~3位   | 型号代码                                 | Digit 1 to 3   | Series code                                   |
|         | C29                                  |                | C29                                           |
| 第4~5位   | 交流额定电压                               | Digit 4 to 5   | AC rated voltage                              |
|         | P2=275V Q1=300V                      |                | P2=275V Q1=300V                               |
| 第6~8位   | 标称容量                                 | Digit 6 to 8   | Rated capacitance value                       |
|         | 举例: 104=10×10 <sup>4</sup> pF=0.10μF |                | For example: 104=10×10 <sup>4</sup> pf=0.10μF |
| 第9位     | 容量等级                                 | Digit 9        | Capacitance tolerance                         |
|         | J=±5%, K=±10%, M=±20%                |                | J=±5%, K=±10%, M=±20%                         |
| 第10位    | 引线脚距P                                | Digit 10       | Pitch                                         |
|         | 4=10.0mm 6=15.0mm                    |                | 4=10.0mm 6=15.0mm                             |
|         | 9=22.5mm B=27.5mm F=37.5mm           |                | 9=22.5mm B=27.5mm F=37.5mm                    |
| 第11位    | 内部特征码                                | Digit 11       | Internal use                                  |
| 第12~15位 | 引线加工和包装代码                            | Digit 12 to 15 | Lead form and packaging code                  |
| 第16~18位 | 内部特征码                                | Digit 16 to 18 | Internal use                                  |

■ Table 1 引线加工和包装代码 lead form and packaging code

| 第 12 位 Digit 12 |                                                   | 第 13 位 Digit 13 |                                               | 第 14 位 Digit 14 |                   | 第 15 位 Digit 15 |                                                                                   |
|-----------------|---------------------------------------------------|-----------------|-----------------------------------------------|-----------------|-------------------|-----------------|-----------------------------------------------------------------------------------|
| 代码<br>Code      | 说明<br>explanation                                 | 代码<br>Code      | 说明<br>explanation                             | 代码<br>Code      | 说明<br>explanation | 代码<br>Code      | 说明<br>explanation                                                                 |
| A               | 弹带包装<br>ammo-pack                                 | 6               | F=15.0mm                                      | 0               | 表示直脚<br>straight  | 5               | P3=25.4mm, H=18.5mm (For pitch=10.0/15.0mm)<br>(Detail parameter refer to pag 17) |
| C               | 直脚<br>straight lead<br>“C” in the<br>figure above | 代码<br>Code      | 说明 explanation                                |                 |                   | 0               | 引线长度偏差 ±0.5mm<br>或标准长度<br>Length tolerance ±0.5mm<br>Or standard length           |
|                 |                                                   | 00              | 标准的引线长度 (18mm ~ 26mm)<br>standard lead length |                 |                   |                 |                                                                                   |
|                 |                                                   | 45              | 引线长度 4.5mm<br>lead length 4.5mm               |                 |                   |                 |                                                                                   |



C29

## ■ 外形尺寸 Dimensions ( mm )

| 275Vac                 |      |      |      |      |     |                    |
|------------------------|------|------|------|------|-----|--------------------|
| C <sub>N</sub><br>(μF) | W    | H    | T    | P    | d   | Part number        |
| 0.033                  | 13.0 | 9.0  | 4.0  | 10.0 | 0.6 | C29P2333-40****+++ |
| 0.039                  | 13.0 | 9.0  | 4.0  | 10.0 | 0.6 | C29P2393-40****+++ |
| 0.047                  | 13.0 | 11.0 | 5.0  | 10.0 | 0.6 | C29P2473-40****+++ |
| 0.056                  | 13.0 | 11.0 | 5.0  | 10.0 | 0.6 | C29P2563-40****+++ |
| 0.068                  | 13.0 | 11.0 | 5.0  | 10.0 | 0.6 | C29P2683-40****+++ |
| 0.082                  | 13.0 | 12.0 | 6.0  | 10.0 | 0.6 | C29P2823-40****+++ |
| 0.10                   | 13.0 | 12.0 | 6.0  | 10.0 | 0.6 | C29P2104-40****+++ |
| 0.10                   | 17.5 | 11.0 | 5.0  | 15.0 | 0.6 | C29P2104-60****+++ |
| 0.12                   | 17.5 | 11.0 | 5.0  | 15.0 | 0.6 | C29P2124-60****+++ |
| 0.15M                  | 17.5 | 11.0 | 5.0  | 15.0 | 0.6 | C29P2154M60****+++ |
| 0.15                   | 17.5 | 12.0 | 6.0  | 15.0 | 0.6 | C29P2154-60****+++ |
| 0.18                   | 17.5 | 12.0 | 6.0  | 15.0 | 0.6 | C29P2184-60****+++ |
| 0.22                   | 17.5 | 13.5 | 7.5  | 15.0 | 0.6 | C29P2224-60****+++ |
| 0.27                   | 17.5 | 13.5 | 7.5  | 15.0 | 0.6 | C29P2274-60****+++ |
| 0.33                   | 17.5 | 14.5 | 8.5  | 15.0 | 0.6 | C29P2334-60****+++ |
| 0.39M                  | 17.5 | 14.5 | 8.5  | 15.0 | 0.6 | C29P2394M60****+++ |
| 0.39                   | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C29P2394-60****+++ |
| 0.47                   | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C29P2474-60****+++ |
| 0.27                   | 26.5 | 15.0 | 6.0  | 22.5 | 0.8 | C29P2274-90****+++ |
| 0.33                   | 26.5 | 15.0 | 6.0  | 22.5 | 0.8 | C29P2334-90****+++ |
| 0.39                   | 26.5 | 15.0 | 6.0  | 22.5 | 0.8 | C29P2394-90****+++ |
| 0.47M                  | 26.5 | 15.0 | 6.0  | 22.5 | 0.8 | C29P2474M90****+++ |
| 0.47                   | 26.5 | 16.0 | 7.0  | 22.5 | 0.8 | C29P2474-90****+++ |
| 0.56                   | 26.5 | 16.0 | 7.0  | 22.5 | 0.8 | C29P2564-90****+++ |
| 0.68                   | 26.5 | 17.0 | 8.5  | 22.5 | 0.8 | C29P2684-90****+++ |
| 0.82                   | 26.5 | 17.0 | 8.5  | 22.5 | 0.8 | C29P2824-90****+++ |
| 1.0                    | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C29P2105-90****+++ |
| 1.2                    | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C29P2125-90****+++ |
| 1.5M                   | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C29P2155M90****+++ |
| 1.5                    | 26.5 | 23.0 | 13.5 | 22.5 | 0.8 | C29P2155-90****+++ |
| 1.8                    | 26.5 | 23.0 | 13.5 | 22.5 | 0.8 | C29P2185-90****+++ |
| 2.2                    | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C29P2225-90****+++ |
| 0.82                   | 32.0 | 18.0 | 9.0  | 27.5 | 0.8 | C29P2824-B0****+++ |
| 1.0                    | 32.0 | 18.0 | 9.0  | 27.5 | 0.8 | C29P2105-B0****+++ |
| 1.2                    | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C29P2125-B0****+++ |
| 1.5                    | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C29P2155-B0****+++ |
| 1.8                    | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C29P2185-B0****+++ |
| 2.2M                   | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C29P2225MB0****+++ |
| 2.2                    | 32.0 | 25.0 | 13.0 | 27.5 | 0.8 | C29P2225-B0****+++ |
| 3.3                    | 32.0 | 30.0 | 16.0 | 27.5 | 0.8 | C29P2335-B0****+++ |
| 3.9                    | 32.0 | 32.0 | 18.0 | 27.5 | 0.8 | C29P2395-B0****+++ |
| 4.7                    | 32.0 | 32.0 | 18.0 | 27.5 | 0.8 | C29P2475-B0****+++ |
| 2.2                    | 41.0 | 22.0 | 11.0 | 37.5 | 1.0 | C29P2225-F0****+++ |
| 2.7                    | 41.0 | 24.0 | 13.0 | 37.5 | 1.0 | C29P2275-F0****+++ |
| 3.3                    | 42.0 | 28.0 | 14.0 | 37.5 | 1.0 | C29P2335-F0****+++ |
| 3.9                    | 42.0 | 28.0 | 14.0 | 37.5 | 1.0 | C29P2395-F0****+++ |
| 4.7                    | 41.0 | 30.0 | 16.0 | 37.5 | 1.0 | C29P2475-F0****+++ |
| 5.6                    | 41.0 | 32.0 | 17.0 | 37.5 | 1.0 | C29P2565-F0****+++ |
| 6.8                    | 41.0 | 33.5 | 18.5 | 37.5 | 1.0 | C29P2685-F0****+++ |
| 8.2                    | 41.0 | 37.0 | 22.0 | 37.5 | 1.0 | C29P2825-F0****+++ |
| 10                     | 41.0 | 41.0 | 26.0 | 37.5 | 1.0 | C29P2106-F0****+++ |

| 300Vac                 |      |      |      |      |     |                    |
|------------------------|------|------|------|------|-----|--------------------|
| C <sub>N</sub><br>(μF) | W    | H    | T    | P    | d   | Part number        |
| 0.022                  | 13.0 | 9.0  | 4.0  | 10.0 | 0.6 | C29Q1223-40****+++ |
| 0.027                  | 13.0 | 11.0 | 5.0  | 10.0 | 0.6 | C29Q1273-40****+++ |
| 0.033                  | 13.0 | 11.0 | 5.0  | 10.0 | 0.6 | C29Q1333-40****+++ |
| 0.039                  | 13.0 | 11.0 | 5.0  | 10.0 | 0.6 | C29Q1393-40****+++ |
| 0.047                  | 13.0 | 11.0 | 5.0  | 10.0 | 0.6 | C29Q1473-40****+++ |
| 0.056                  | 13.0 | 12.0 | 6.0  | 10.0 | 0.6 | C29Q1563-40****+++ |
| 0.068                  | 13.0 | 12.0 | 6.0  | 10.0 | 0.6 | C29Q1683-40****+++ |
| 0.068                  | 17.5 | 11.0 | 5.0  | 15.0 | 0.6 | C29Q1683-60****+++ |
| 0.082                  | 17.5 | 11.0 | 5.0  | 15.0 | 0.6 | C29Q1823-60****+++ |
| 0.10                   | 17.5 | 12.0 | 6.0  | 15.0 | 0.6 | C29Q1104-60****+++ |
| 0.15                   | 17.5 | 13.5 | 7.5  | 15.0 | 0.6 | C29Q1154-60****+++ |
| 0.22                   | 17.5 | 14.0 | 8.0  | 15.0 | 0.6 | C29Q1224-60****+++ |
| 0.27                   | 17.5 | 14.5 | 8.5  | 15.0 | 0.8 | C29Q1274-60****+++ |
| 0.33                   | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C29Q1334-60****+++ |
| 0.39                   | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C29Q1394-60****+++ |
| 0.47M                  | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C29Q1474M60****+++ |
| 0.47                   | 17.5 | 19.0 | 11.0 | 15.0 | 0.8 | C29Q1474-60****+++ |
| 0.15                   | 26.5 | 15.0 | 6.0  | 22.5 | 0.8 | C29Q1154-90****+++ |
| 0.22                   | 26.5 | 15.0 | 6.0  | 22.5 | 0.8 | C29Q1224-90****+++ |
| 0.33                   | 26.5 | 16.0 | 7.0  | 22.5 | 0.8 | C29Q1334-90****+++ |
| 0.39                   | 26.5 | 16.0 | 7.0  | 22.5 | 0.8 | C29Q1394-90****+++ |
| 0.47                   | 26.5 | 17.0 | 8.5  | 22.5 | 0.8 | C29Q1474-90****+++ |
| 0.56                   | 26.5 | 17.0 | 8.5  | 22.5 | 0.8 | C29Q1564-90****+++ |
| 0.68                   | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C29Q1684-90****+++ |
| 0.82                   | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C29Q1824-90****+++ |
| 1.0                    | 26.5 | 20.0 | 11.0 | 22.5 | 0.8 | C29Q1105-90****+++ |
| 1.5                    | 26.5 | 23.0 | 13.5 | 22.5 | 0.8 | C29Q1155-90****+++ |
| 1.8                    | 26.5 | 24.5 | 15.5 | 22.5 | 0.8 | C29Q1185-90****+++ |
| 2.2                    | 26.5 | 29.5 | 14.5 | 22.5 | 0.8 | C29Q1225-90****+++ |
| 0.47                   | 32.0 | 18.0 | 9.0  | 27.5 | 0.8 | C29Q1474-B0****+++ |
| 0.56                   | 32.0 | 18.0 | 9.0  | 27.5 | 0.8 | C29Q1564-B0****+++ |
| 0.68                   | 32.0 | 18.0 | 9.0  | 27.5 | 0.8 | C29Q1684-B0****+++ |
| 0.82                   | 32.0 | 18.0 | 9.0  | 27.5 | 0.8 | C29Q1824-B0****+++ |
| 1.0                    | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C29Q1105-B0****+++ |
| 1.5                    | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C29Q1155-B0****+++ |
| 2.2                    | 32.0 | 28.0 | 14.0 | 27.5 | 0.8 | C29Q1225-B0****+++ |
| 3.3                    | 32.0 | 30.0 | 16.0 | 27.5 | 0.8 | C29Q1335-B0****+++ |
| 3.9                    | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C29Q1395-B0****+++ |
| 4.7M                   | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C29Q1475MB0****+++ |
| 4.7                    | 32.0 | 37.0 | 22.0 | 27.5 | 0.8 | C29Q1475-B0****+++ |
| 1.0                    | 41.0 | 22.0 | 11.0 | 37.5 | 1.0 | C29Q1105-F0****+++ |
| 1.5                    | 41.0 | 22.0 | 11.0 | 37.5 | 1.0 | C29Q1155-F0****+++ |
| 2.2                    | 41.0 | 24.0 | 13.0 | 37.5 | 1.0 | C29Q1225-F0****+++ |
| 3.3                    | 42.0 | 28.0 | 14.0 | 37.5 | 1.0 | C29Q1335-F0****+++ |
| 3.9                    | 41.0 | 30.0 | 16.0 | 37.5 | 1.0 | C29Q1395-F0****+++ |
| 4.7                    | 41.0 | 32.0 | 17.0 | 37.5 | 1.0 | C29Q1475-F0****+++ |
| 5.6                    | 41.0 | 33.5 | 18.5 | 37.5 | 1.0 | C29Q1565-F0****+++ |
| 6.8                    | 41.0 | 37.0 | 22.0 | 37.5 | 1.0 | C29Q1685-F0****+++ |
| 8.2                    | 41.5 | 37.5 | 27.5 | 37.5 | 1.0 | C29Q1825-F0****+++ |
| 10                     | 41.0 | 43.0 | 28.0 | 37.5 | 1.0 | C29Q1106-F0****+++ |

备注: 1. “-”表示容量偏差。 “-”=capacitance tolerance code, J=±5%,K=±10%,M=±20%

2. “\*\*\*\*”表示引线加工和包装代码(见table 1)。“\*\*\*\*”=lead dimensions and packing mode code (refer to table 1)