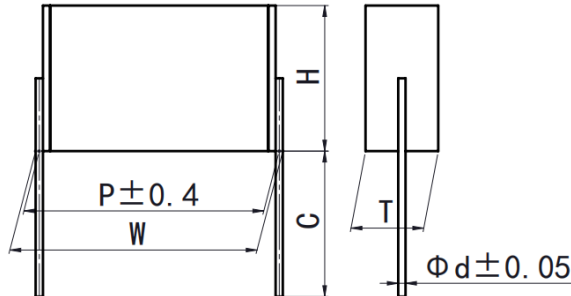


C92

无外封装金属化聚萘乙酯膜叠片式电容器

Metallized polyethylene naphthalate film capacitor(Stacked version,uncoated)

外形图 Outline Drawing



特点

- 高脉冲能力
- 高可靠性
- 高使用温度范围(-55°C ~ +150°C)

主要用途

- 广泛用于大功率紧凑型节能灯和电子照明(如汽车 HID 灯)
- 直流脉动和脉冲电路中(高温环境下)

Features

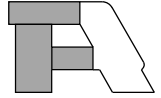
- High pulse strength
- High reliability
- Operating temperature:(-55°C ~ +150°C)

Typical Applications

- Widely used in high-power CFL and electric lighting (i.e. Automotive HID lamps)
- DC impulse and pulse circuits(High temperature condition)

技术要求 Specifications

| | | | | |
|---|---|-------------|-------|-------|
| 引用标准 Reference Standard | GB/T 7332 (IEC 60384-2) | | | |
| 气候类别 Climatic Category | 55/150/56 | | | |
| 额定温度 Rated Temperature | 125°C | | | |
| 工作温度 Operating Temperature Range | -55°C~150°C (+125°C to +150°C: decreasing factor 1.25% per °C for U _R) | | | |
| 额定电压 Rated Voltage | 250V, 400V, 630V, 1 000V | | | |
| 电容量范围 Capacitance Range | 0.0010μF~0.22μF | | | |
| 电容量偏差 Capacitance Tolerance | ±5%(J), ±10%(K), ±20%(M) | | | |
| 耐电压 Voltage Proof | 1.4U _R (5s) | | | |
| 损耗角正切 Dissipation Factor | ≤0.8% (20°C,1kHz) ≤1.5% (20°C,10kHz) | | | |
| 绝缘电阻 Insulation Resistance | ≥7 500MΩ(20°C, 100V, 1min) | | | |
| 最大脉冲爬升速率 Maximum Pulse Rise Time(dV/dt):若实际工作电压 U 比额定电压 U _R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为右表值乘以 U _R /U。 If the working voltage(U) is lower than the rated voltage(U _R),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U _R /U. | U _R (V) | dV/dt(V/μs) | | |
| | | | P=5.0 | P=7.5 |
| | 250 | 250 | 200 | 150 |
| | 400 | 300 | 275 | 175 |
| | 630 | 4 000 | 3 000 | 2 000 |
| 1 000 | 5 000 | 4 000 | 3 000 | |
| 储存条件 (Storage condition) | 温度不超过 35°C, 湿度不超过 75%RH,保存 6 个月。 超过 6 个月, 在 70°C±5°C烘箱内, 烘 24 个小时再使用。 Temperature:≤35°C, Humidity:≤75%RH, Storage time:≤6 months. If more than 6 months, please dry for 24 h at 70°C±5°C before use. | | | |



■ 产品编码说明 Part number system

■ 15 位产品代码如下:

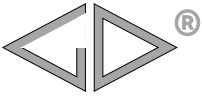
The 15 digits part number is formed as follow:

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

| | | | |
|-----------|-------------------------------------|----------------|---|
| 第 1~3 位 | 型号代码 | Digit 1 to 3 | Series code |
| | C92 | | C92 |
| 第 4~5 位 | 直流额定电压 | Digit 4 to 5 | D.C. rated voltage |
| | 2E=250V 2G=400V | | 2E=250V 2G=400V |
| | 2J=630V 3A=1000V | | 2J=630V 3A=1000V |
| 第 6~8 位 | 标称容量 | Digit 6 to 8 | Rated capacitance value |
| | 举例:103=10×10 ³ pF=0.01μF | | for example: 103=10×10 ³ pF=0.01μF |
| 第 9 位 | 容量偏差 | 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 |
| | 2=5.0mm 3=7.5mm 4=10.0mm | | 2=5.0mm 3=7.5mm 4=10.0mm |
| 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 |

■ 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 Code | 说明 explanation | 代码 Code | 说明 explanation | 代码 Code | 说明 explanation | 代码 Code | 说明 explanation |
| A | 弹带包装 ammo-pack | 2 | F=5.0mm | 0 | 表示直脚 straight | 1 | 产品在连续的两个载带孔之间 each cap.among two consecutive holes P3=12.7mm, H=18.5mm(For pitch=5.0/7.5mm) |
| | | 3 | F=7.5mm | | | 2 | 载带孔在产品的引线之间 each hole between two leads of a cap. P3=12.7mm, H=18.5mm(For pitch=10.0mm) |
| | | 4 | F=10.0mm | | | | |
| C | 直脚 straight lead “C” in the figure above | 代码 Code | 说明 explanation | 0 | | 0 | 引线长度偏差±0.5mm 或标准长度 Length tolerance±0.5mm Or standard length |
| | | 00 | 标准的引线长度(18mm~22mm) standard lead length | | | | |
| | | 45 | 引线长度 4.5mm lead length 4.5mm | | | | |



C92

■ 外形尺寸 Dimensions(mm)

| 250Vdc | | | | | | |
|------------------------|----------|----------|----------|-----|-----|-----------------|
| C _N (μF) | W max | H max | T max | P | d | Part number |
| 0.0010 | 6.5 | 3.3 | 2.0 | 5.0 | 0.6 | C922E102-20**** |
| 0.0027 | 6.5 | 4.6 | 2.2 | 5.0 | 0.6 | C922E272-20**** |
| 0.0047 | 6.5 | 3.3 | 2.0 | 5.0 | 0.6 | C922E472-20**** |
| 0.0068 | 6.5 | 3.4 | 2.0 | 5.0 | 0.6 | C922E682-20**** |
| 0.010 | 6.5 | 3.9 | 2.0 | 5.0 | 0.6 | C922E103-20**** |
| 0.027 | 6.5 | 4.4 | 2.3 | 5.0 | 0.6 | C922E273-20**** |
| 0.047 | 6.5 | 5.0 | 3.0 | 5.0 | 0.6 | C922E473-20**** |
| 0.068 | 6.5 | 5.3 | 3.7 | 5.0 | 0.6 | C922E683-20**** |
| 0.10 | 9.0 | 6.2 | 3.2 | 7.5 | 0.6 | C922E104-30**** |

| 400Vdc | | | | | | |
|------------------------|----------|----------|----------|------|-----|-----------------|
| C _N (μF) | W max | H max | T max | P | d | Part number |
| 0.01 | 6.5 | 4.0 | 2.2 | 5.0 | 0.6 | C922G103-20**** |
| 0.027 | 6.5 | 5.3 | 3.4 | 5.0 | 0.6 | C922G273-20**** |
| 0.047 | 6.5 | 6.9 | 4.2 | 5.0 | 0.6 | C922G473-20**** |
| 0.068 | 9.0 | 6.5 | 4.2 | 7.5 | 0.6 | C922G683-30**** |
| 0.1 | 9.0 | 7.6 | 5.0 | 7.5 | 0.6 | C922G104-30**** |
| 0.15 | 11.5 | 7.3 | 5.4 | 10.0 | 0.6 | C922G154-40**** |
| 0.22 | 11.5 | 9.2 | 6.2 | 10.0 | 0.6 | C922G224-40**** |

| 630Vdc | | | | | | |
|------------------------|----------|----------|----------|------|-----|-----------------|
| C _N (μF) | W max | H max | T max | P | d | Part number |
| 0.0068 | 9.0 | 5.3 | 3.5 | 7.5 | 0.6 | C922J682-30**** |
| 0.01 | 9.0 | 6.9 | 3.8 | 7.5 | 0.6 | C922J103-30**** |
| 0.015 | 11.5 | 5.6 | 3.2 | 10.0 | 0.6 | C922J153-40**** |
| 0.027 | 11.5 | 7.3 | 4.0 | 10.0 | 0.6 | C922J273-40**** |
| 0.047 | 11.5 | 8.6 | 5.4 | 10.0 | 0.6 | C922J473-40**** |

| 1 000Vdc | | | | | | |
|------------------------|----------|----------|----------|------|-----|-----------------|
| C _N (μF) | W max | H max | T max | P | d | Part number |
| 0.0022 | 9.0 | 4.8 | 3.0 | 7.5 | 0.6 | C923A222-30**** |
| 0.0033 | 9.0 | 5.5 | 3.6 | 7.5 | 0.6 | C923A332-30**** |
| 0.0056 | 9.0 | 6.6 | 4.7 | 7.5 | 0.6 | C923A562-30**** |
| 0.0082 | 9.0 | 7.6 | 5.7 | 7.5 | 0.6 | C923A822-30**** |
| 0.010 | 11.5 | 5.4 | 3.7 | 10.0 | 0.6 | C923A103-40**** |
| 0.027 | 11.5 | 8.4 | 5.6 | 10.0 | 0.6 | C923A273-40**** |
| 0.047 | 11.5 | 11.7 | 6.8 | 10.0 | 0.6 | C923A473-40**** |
| 0.068 | 11.5 | 13.8 | 8.0 | 10.0 | 0.6 | C923A683-40**** |
| 0.070 | 11.5 | 14.0 | 8.1 | 10.0 | 0.6 | C923A703-40**** |
| 0.080 | 11.5 | 15.1 | 8.8 | 10.0 | 0.6 | C923A803-40**** |

备注 Note: 1. “-” 表示容量偏差。 “-” =capacitance tolerance code. M=±20%, K=±10%, J=±5%.
 2. “****” 表示引线加工和包装代码(见表 1)。 “****” =lead form and packing code(refer to table 1).