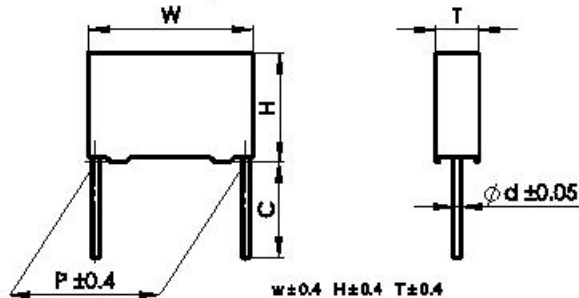


塑料外壳双面金属化聚丙烯膜电容器

Double sided metallized polypropylene film capacitor (Box-type)

■ 外形图 Outline Drawing



■ 特点

- 双面金属化聚丙烯膜
- 损耗小，内部温升小
- 负电容量温度系数
- 优异的阻燃性能

■ 主要用途

- 高压高频脉冲电路中
- 电子照明（汽车头灯、镇流器）

■ 技术要求 Specifications

■ Features

- Doublesided metallized polypropylene film
- Low loss and small inherent temperature rise
- Negative temperature coefficient of capacitance
- Excellent active and passive flame resistant abilities

■ Typical Applications

- Pulse applications with high. AC. voltage and HIGH current
- Electronic lighting(i.e. car headlamp and lighting ballast)

| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------|--------|
| 引用标准 Reference Standard | GB/T 14579(IEC 80384-17) | | | | |
| 气候类别 Climatic Category | 40/105/56 | | | | |
| 额定温度 Rated Temperature | 85℃ | | | | |
| 工作温度 Operating Temperature Range | -40℃ ~105℃ (+85℃ to +105℃: decreasing factor 1.25% per °C for U_R (dc)) (+75℃ to +105℃: decreasing factor 1.35% per °C for U_R (ac)) | | | | |
| 额定电压 Rated Voltage | 250Vac (630Vdc), 300Vac (800Vdc) 400Vac (1 000Vdc), 500Vac (1 800Vdc) 700Vac (2 000Vdc), 900Vac (2 500Vdc) | | | | |
| 电容量范围 Capacitance Range | 0.0010μF ~ 0.12μF | | | | |
| 电容量偏差 Capacitance Tolerance | ± 2%(G), ± 3%(H), ± 3.5%(C), ± 5%(J), ± 10%(K), ± 20%(M) | | | | |
| 耐电压 Voltage Proof | 1.6 U_R (5s) | | | | |
| 损耗角正切 Dissipation Factor | ≤ 10 × 10 ⁻⁴ (1kHz, 20℃) | | | | |
| 绝缘电阻 Insulation Resistance | ≥ 100 000MΩ (20℃, 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=10.0 | P=15.0 | P=22.5 | P=27.5 |
| | 250(630Vdc) | 3 000 | 1 100 | — | — |
| | 300(800Vdc) | — | 2 500 | 1 500 | — |
| | 400(1 000Vdc) | — | 3 500 | 2 100 | — |
| | 500(1 800Vdc) | — | 5 000 | 3 000 | 2 000 |
| | 700(2 000Vdc) | — | 8 000 | 5 000 | 2 200 |
| 900(2 500Vdc) | — | — | 7 000 | — | |



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 | 8 | 4 | | | | | | | | | | | | | | | |

| | | | |
|---------|--------------------------------------------------------------|----------------|--------------------------------------------------------------------------|
| 第1~3位 | 型号代码 C84= MMKP84 | Digit 1 to 3 | Series code C84= MMKP84 |
| 第4~5位 | 交流额定电压 E2=250V Q1=300V G2=400V H2=500V V1=700V X1=900V | Digit 4 to 5 | AC rated voltage E2=250V Q1=300V G2=400V H2=500V V1=700V X1=900V |
| 第6~8位 | 标称容量 举例: 103=10×10 ³ pF=0.01μF | Digit 6 to 8 | Rated capacitance value For example: 103=10×10 ³ pF=0.01μF |
| 第9位 | 容量偏差 G=±2%,H=±3%,J=±5% K=±10%,M=±20% | Digit 9 | Capacitance tolerance G=±2%,H=±3%,J=±5% K=±10%,M=±20% |
| 第10位 | 引线脚距P 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm | Digit 10 | Pitch 4=10.0mm 6=15.0mm 9=22.5mm B=27.5mm |
| 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 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 | 4 8 | F=10.0mm F=15.0mm | 0 | 表示直脚 straight | 5 | P3=25.4mm;H=18.5mm (For pitch=10/15mm) (Detail parameter refer to pag 17) |
| C | 直脚 straight lead "C" in the figure above | 代码 Code | 说明 explanation | | | 0 | 引线长度公差 ±0.5mm 或标准长度 Length tolerance ±0.5mm Or standard length |
| | | 00 | 标准的引线长度 (18mm~26mm) standard lead length | | | | |
| | | 45 | 引线长度 4.5mm lead length 4.5mm | | | | |

■ 外形尺寸 Dimensions (mm)

| 250Vac (630Vdc) | | | | | | |
|---------------------|------|------|------|------|-----|--------------------|
| C _N (μF) | W | H | T | P | d | Part number |
| 0.010 | 13.0 | 9.0 | 4.0 | 10.0 | 0.8 | C84E2103-40****+++ |
| 0.012 | 13.0 | 9.0 | 4.0 | 10.0 | 0.8 | C84E2123-40****+++ |
| 0.015 | 13.0 | 11.0 | 5.0 | 10.0 | 0.8 | C84E2153-40****+++ |
| 0.018 | 13.0 | 12.0 | 6.0 | 10.0 | 0.8 | C84E2183-40****+++ |
| 0.022 | 13.0 | 12.0 | 6.0 | 10.0 | 0.8 | C84E2223-40****+++ |
| 0.027 | 17.5 | 12.0 | 6.0 | 16.0 | 0.8 | C84E2273-80****+++ |
| 0.033 | 17.5 | 12.0 | 6.0 | 16.0 | 0.8 | C84E2333-80****+++ |
| 0.039 | 17.5 | 12.0 | 6.0 | 16.0 | 0.8 | C84E2393-80****+++ |
| 0.047 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84E2473-80****+++ |
| 0.056 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84E2563-80****+++ |
| 0.066 | 17.5 | 14.5 | 8.5 | 16.0 | 0.8 | C84E2663-80****+++ |
| 0.082 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84E2823-80****+++ |
| 0.10 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84E2104-80****+++ |

| 300Vac (800Vdc) | | | | | | |
|---------------------|------|------|------|------|-----|--------------------|
| C _N (μF) | W | H | T | P | d | Part number |
| 0.010 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84Q1103-80****+++ |
| 0.012 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84Q1123-80****+++ |
| 0.015 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84Q1153-80****+++ |
| 0.018 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84Q1183-80****+++ |
| 0.022 | 17.5 | 12.0 | 6.0 | 15.0 | 0.8 | C84Q1223-80****+++ |
| 0.027 | 17.5 | 12.0 | 6.0 | 15.0 | 0.8 | C84Q1273-80****+++ |
| 0.033 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84Q1333-80****+++ |
| 0.039 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84Q1393-80****+++ |
| 0.047 | 17.5 | 14.5 | 8.5 | 16.0 | 0.8 | C84Q1473-80****+++ |
| 0.056 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84Q1563-80****+++ |
| 0.066 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84Q1663-80****+++ |
| 0.082 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84Q1823-80****+++ |
| 0.098 | 26.5 | 15.0 | 7.0 | 22.5 | 0.8 | C84Q1983-80****+++ |
| 0.082 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C84Q1823-80****+++ |
| 0.10 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C84Q1104-80****+++ |

| 400Vac (1 000Vdc) | | | | | | |
|---------------------|------|------|------|------|-----|--------------------|
| C _N (μF) | W | H | T | P | d | Part number |
| 0.0056 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84G2562-80****+++ |
| 0.0066 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84G2662-80****+++ |
| 0.0082 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84G2822-80****+++ |
| 0.010 | 17.5 | 12.0 | 6.0 | 15.0 | 0.8 | C84G2103-80****+++ |
| 0.012 | 17.5 | 12.0 | 6.0 | 15.0 | 0.8 | C84G2123-80****+++ |
| 0.015 | 17.5 | 13.5 | 7.5 | 15.0 | 0.8 | C84G2153-80****+++ |
| 0.018 | 17.5 | 13.5 | 7.5 | 15.0 | 0.8 | C84G2183-80****+++ |
| 0.022 | 17.5 | 14.5 | 8.5 | 15.0 | 0.8 | C84G2223-80****+++ |
| 0.027 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C84G2273-80****+++ |
| 0.033 | 17.5 | 16.0 | 10.0 | 15.0 | 0.8 | C84G2333-80****+++ |
| 0.039 | 26.5 | 15.0 | 7.0 | 22.5 | 0.8 | C84G2393-80****+++ |
| 0.047 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C84G2473-80****+++ |
| 0.056 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C84G2563-80****+++ |
| 0.066 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84G2663-80****+++ |
| 0.082 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84G2823-80****+++ |
| 0.10 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C84G2104-80****+++ |

| 500Vac (1 600Vdc) | | | | | | |
|---------------------|------|------|------|------|-----|--------------------|
| C _N (μF) | W | H | T | P | d | Part number |
| 0.0010 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2102-80****+++ |
| 0.0012 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2122-80****+++ |
| 0.0015 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2152-80****+++ |
| 0.0018 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2182-80****+++ |
| 0.0022 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2222-80****+++ |
| 0.0027 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2272-80****+++ |
| 0.0033 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2322-80****+++ |
| 0.0039 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2382-80****+++ |
| 0.0047 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2472-80****+++ |
| 0.0056 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84H2562-80****+++ |
| 0.0066 | 17.5 | 12.0 | 6.0 | 16.0 | 0.8 | C84H2662-80****+++ |
| 0.0082 | 17.5 | 12.0 | 6.0 | 16.0 | 0.8 | C84H2822-80****+++ |
| 0.010 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84H2103-80****+++ |
| 0.012 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84H2123-80****+++ |
| 0.015 | 17.5 | 14.5 | 8.5 | 16.0 | 0.8 | C84H2153-80****+++ |
| 0.018 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84H2183-80****+++ |
| 0.022 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84H2223-80****+++ |
| 0.018 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84H2183-80****+++ |
| 0.022 | 26.5 | 15.0 | 7.0 | 22.5 | 0.8 | C84H2223-80****+++ |
| 0.027 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C84H2273-80****+++ |
| 0.033 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C84H2333-80****+++ |
| 0.039 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84H2393-80****+++ |
| 0.047 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84H2473-80****+++ |
| 0.056 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C84H2563-80****+++ |
| 0.066 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C84H2663-80****+++ |
| 0.082 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C84H2823-80****+++ |
| 0.10 | 32.0 | 23.0 | 13.0 | 27.5 | 0.8 | C84H2104-80****+++ |

| 700Vac (2 000Vdc) | | | | | | |
|---------------------|------|------|------|------|-----|--------------------|
| C _N (μF) | W | H | T | P | d | Part number |
| 0.00051 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84V1511-80****+++ |
| 0.00066 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84V1661-80****+++ |
| 0.0010 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84V1102-80****+++ |
| 0.0012 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84V1122-80****+++ |
| 0.0015 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84V1152-80****+++ |
| 0.0018 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84V1182-80****+++ |
| 0.0022 | 17.5 | 11.0 | 5.0 | 15.0 | 0.8 | C84V1222-80****+++ |
| 0.0027 | 17.5 | 12.0 | 6.0 | 16.0 | 0.8 | C84V1272-80****+++ |
| 0.0033 | 17.5 | 12.0 | 6.0 | 16.0 | 0.8 | C84V1322-80****+++ |
| 0.0039 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84V1392-80****+++ |
| 0.0047 | 17.5 | 13.5 | 7.5 | 16.0 | 0.8 | C84V1472-80****+++ |
| 0.0056 | 17.5 | 14.5 | 8.5 | 16.0 | 0.8 | C84V1562-80****+++ |
| 0.0066 | 17.5 | 14.5 | 8.5 | 16.0 | 0.8 | C84V1662-80****+++ |
| 0.0082 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84V1822-80****+++ |
| 0.010 | 17.5 | 16.0 | 10.0 | 16.0 | 0.8 | C84V1103-80****+++ |
| 0.0066 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84V1662-80****+++ |
| 0.0082 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84V1822-80****+++ |
| 0.010 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84V1103-80****+++ |
| 0.012 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C84V1123-80****+++ |
| 0.015 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C84V1153-80****+++ |
| 0.018 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84V1183-80****+++ |
| 0.022 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84V1223-80****+++ |
| 0.027 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C84V1273-80****+++ |
| 0.033 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C84V1323-80****+++ |
| 0.018 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C84V1183-80****+++ |
| 0.022 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C84V1223-80****+++ |
| 0.027 | 32.0 | 18.0 | 9.0 | 27.5 | 0.8 | C84V1273-80****+++ |
| 0.033 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C84V1323-80****+++ |
| 0.039 | 32.0 | 20.0 | 11.0 | 27.5 | 0.8 | C84V1393-80****+++ |
| 0.047 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C84V1473-80****+++ |
| 0.056 | 32.0 | 22.0 | 13.0 | 27.5 | 0.8 | C84V1563-80****+++ |
| 0.066 | 32.0 | 24.5 | 15.0 | 27.5 | 0.8 | C84V1663-80****+++ |
| 0.082 | 32.0 | 23.0 | 14.0 | 27.5 | 0.8 | C84V1823-80****+++ |
| 0.10 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C84V1104-80****+++ |
| 0.12 | 32.0 | 33.0 | 18.0 | 27.5 | 0.8 | C84V1124-80****+++ |

| 900Vac (2 500Vdc) | | | | | | |
|---------------------|------|------|------|------|-----|--------------------|
| C _N (μF) | W | H | T | P | d | Part number |
| 0.0010 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84X1102-80****+++ |
| 0.0012 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84X1122-80****+++ |
| 0.0015 | 26.5 | 16.0 | 8.0 | 22.5 | 0.8 | C84X1152-80****+++ |
| 0.0018 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84X1182-80****+++ |
| 0.0022 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84X1222-80****+++ |
| 0.0027 | 26.5 | 16.0 | 8.0 | 22.5 | 0.8 | C84X1272-80****+++ |
| 0.0033 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84X1322-80****+++ |
| 0.0039 | 26.5 | 16.0 | 8.0 | 22.5 | 0.8 | C84X1392-80****+++ |
| 0.0047 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84X1472-80****+++ |
| 0.0056 | 26.5 | 15.0 | 8.0 | 22.5 | 0.8 | C84X1562-80****+++ |
| 0.0066 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C84X1662-80****+++ |
| 0.0082 | 26.5 | 16.0 | 7.0 | 22.5 | 0.8 | C84X1822-80****+++ |
| 0.010 | 26.5 | 17.0 | 8.5 | 22.5 | 0.8 | C84X1103-80****+++ |
| 0.012 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84X1123-80****+++ |
| 0.015 | 26.5 | 18.5 | 10.0 | 22.5 | 0.8 | C84X1153-80****+++ |
| 0.018 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C84X1183-80****+++ |
| 0.022 | 26.5 | 22.0 | 12.0 | 22.5 | 0.8 | C84X1223-80****+++ |

备注: 1. "-" 表示容量偏差。 "-" =capacitance tolerance code, M=±20%,K=±10%,J=±5%,H=±3%,G=±2%
2. "****" 表示引线加工和包装代码(见table 1)。 "****" =lead form and packing code (refer to table 1)