

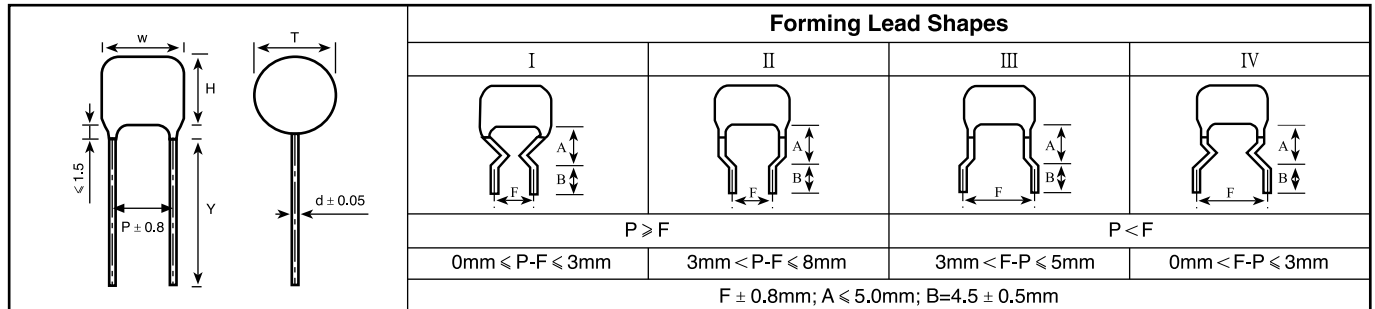


C31 (P)
CBB21 series

金属化聚丙烯膜精密电容器(浸渍型)

Metallized polypropylene film capacitor(dipped) for precision capacitor

■ 外形图 Outline Drawing



■ 特点

- 金属化聚丙烯膜介质
- 电容量温度系数小
- 电容量稳定性好

■ 主要用途

- 定时电路、LC滤波器、振荡电路等要求高频高稳定性的应用场合

■ Features

- Metallized polypropylene film
- Temperature coefficient of capacitance is small
- Good capacitance stability

■ Typical Applications

- Timing, LC-filter, oscillator circuits, applications with high frequencies and high stability, etc

■ 技术要求 Specifications

| | | |
|-----------------------------|-------------------------------------------------------------|-------------------------|
| 引用标准 Reference Standard | GB/T 10190 (IEC 60384-16) | |
| 气候类别 Climatic Category | 55/85/56 | |
| 额定温度 Rated Temperature | 85°C | |
| 额定电压 Rated Voltage | 63V, 100V | |
| 电容量范围 Capacitance Range | 1.0nF ~ 100nF | |
| 电容量偏差 Capacitance Tolerance | ± 1%(F), ± 1.25%(A), ± 1.5%(L), ± 2%(G), ± 2.5%(B), ± 3%(H) | |
| 耐电压 Voltage Proof | 1.6U _R (2s) | |
| 损耗角正切 Dissipation Factor | ≤ 8 × 10 ⁻⁴ | (1kHz, 20°C ± 5°C) |
| 绝缘电阻 Insulation Resistance | ≥ 100 000MΩ | (20°C ± 5°C, 10V, 1min) |

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 | 3 | 1 | | | | | | | | P | | | | | | | |

| | | | |
|---------|---------------------------------------|----------------|-------------------------------------------------|
| 第1~3位 | 型号代码 | Digit 1 to 3 | Series code |
| | C31(P)= CBB21精密电容 | | C31(P)= CBB21 for precision capacitor |
| 第4~5位 | 直流额定电压 | Digit 4 to 5 | D.C. rated voltage |
| | 1J=63V 2A=100V | | 1J=63V 2A=100V |
| 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 |
| | F= ± 1%, A= ± 1.25%, L= ± 1.5% | | F= ± 1%, A= ± 1.25%, L= ± 1.5% |
| | G= ± 2% B= ± 2.5%, H= ± 3% | | G= ± 2% B= ± 2.5%, H= ± 3% |
| 第10位 | 引线脚距P | Digit 10 | Pitch |
| | 2=5.0mm 3=7.5mm | | 2=5.0mm 3=7.5mm |
| 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 | 2 | F=5.0mm | 1 | 表示弯脚 kinked | A | 产品在连续的两个载带孔之间 each cap. between two consecutive holes P3=12.7mm,H=20.0mm (For pitch=7.5mm) |
| | | 3 | F=7.5mm | | | | (Detail parameter refer to pag 18) |
| F | 引线成型 lead kinked | 2 | F=5.0mm | 0 | B=4.5mm (the length of B) | 0 | B 的长度偏差 ±0.5mm B Length tolerance ±0.5mm |
| | | 3 | F=7.5mm | | | | |
| | | E | F=7.18mm | | | | |
| | | | | 2 | B=3.2mm | | |
| | | | | 5 | B=3.5mm | | |



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■ 外形尺寸 Dimensions (mm)

| 63Vdc/100Vdc [#] | | | | | | |
|---------------------------|------------------|------------------|------------------|-----|-----|--------------------|
| C _N (μF) | W _{max} | H _{max} | T _{max} | P | d | Part number |
| | | Crimped lead | | | | |
| 0.0010 | 7.5 | 11.0 | 6.5 | 5.0 | 0.5 | C311J102-2P****+++ |
| 0.0015 | 7.5 | 11.0 | 6.5 | 5.0 | 0.5 | C311J152-2P****+++ |
| 0.0022 | 7.5 | 11.0 | 6.5 | 5.0 | 0.5 | C311J222-2P****+++ |
| 0.0027 | 7.5 | 11.0 | 6.5 | 5.0 | 0.5 | C311J272-2P****+++ |
| 0.0033 | 7.5 | 11.0 | 6.5 | 5.0 | 0.5 | C311J332-2P****+++ |
| 0.0039 | 7.5 | 11.0 | 6.5 | 5.0 | 0.5 | C311J392-2P****+++ |
| 0.0047 | 7.50 | 11.5 | 7.0 | 5.0 | 0.5 | C311J472-2P****+++ |
| 0.0068 | 7.50 | 10.8 | 6.3 | 5.0 | 0.5 | C311J682-2P****+++ |
| 0.0082 | 7.50 | 11.0 | 6.5 | 5.0 | 0.5 | C311J822-2P****+++ |
| 0.010 | 7.50 | 11.1 | 6.6 | 5.0 | 0.5 | C311J103-2P****+++ |
| 0.022 | 7.50 | 10.9 | 6.4 | 5.0 | 0.5 | C311J223-2P****+++ |
| 0.0068 | 10.0 | 11.2 | 6.7 | 7.5 | 0.5 | C311J682-3P****+++ |
| 0.0082 | 10.0 | 11.5 | 7.0 | 7.5 | 0.5 | C311J822-3P****+++ |
| 0.010 | 10.0 | 11.9 | 7.4 | 7.5 | 0.5 | C311J103-3P****+++ |
| 0.012 | 10.0 | 11.7 | 7.2 | 7.5 | 0.5 | C311J123-3P****+++ |
| 0.015 | 10.0 | 11.5 | 7.0 | 7.5 | 0.5 | C311J153-3P****+++ |
| 0.022 | 10.0 | 11.1 | 6.6 | 7.5 | 0.5 | C311J223-3P****+++ |
| 0.033 | 10.0 | 11.0 | 6.5 | 7.5 | 0.5 | C311J333-3P****+++ |
| 0.047 | 10.0 | 11.6 | 7.1 | 7.5 | 0.5 | C311J473-3P****+++ |
| 0.056 | 10.0 | 11.6 | 7.1 | 7.5 | 0.5 | C311J563-3P****+++ |
| 0.068 | 10.0 | 11.9 | 7.4 | 7.5 | 0.5 | C311J683-3P****+++ |
| 0.082 | 10.0 | 11.3 | 6.8 | 7.5 | 0.5 | C311J823-3P****+++ |
| 0.10 | 10.0 | 11.7 | 7.2 | 7.5 | 0.6 | C311J104-3P****+++ |

备注: 1. “-”表示容量偏差。 “-” =capacitance tolerance code. F= ± 1%, A= ± 1.25%, L= ± 1.5%, G= ± 2% B= ± 2.5%, H= ± 3%

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

3. “#”当额定电压为100Vdc时,第4~5位是2A。“#” when the rated voltage is 100Vdc,the digit 4~5 is 2A.