

CBB22

Metallized Polypropylene Film capacitors

## 金属化聚丙烯膜电容器

CBB22



## 产品特点.Characteristics

- 金属化聚丙烯膜材质;
- 无感卷绕结构;
- 阻燃环氧树脂粉末封装;
- 耐压高, 损耗( $\text{tg}\delta$ )小; 内部温升低
- Metallized polypropylene film dielectric
- Non-inductive winding structure
- Flame retardant epoxy resin powder encapsulation
- Resistance to high voltage, small  $\text{tg}\delta$ , low temperature rise

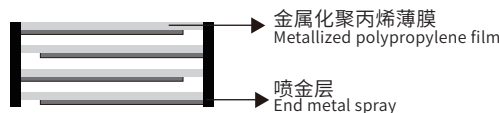
## 产品应用.Application

- 广泛应用于高频、直流、交流和脉冲电路中;
- 显示器的S校正电路中;
- Widely used in High Frequency, DC, AC, Pulse Circuits
- S-correction circuits of the display device

## 性能参数.Technical Data

|  |  |                           |      |      |      |
|--|--|---------------------------|------|------|------|
| ● 引用标准 Reference Standards                 | GB/T 10190(IEC 60384-16)   |                           |      |      |      |
| ● 气候类别 Climate Category                    | 40/085/21  |                           |      |      |      |
| ● 工作温度范围 Operating Temperature Range       | -40°C~85°C   |                           |      |      |      |
| ● 额定电压 Rated Voltage                       | 100VDC、250VDC、400VDC、630VDC  |                           |      |      |      |
| ● 电容量范围 Capacitance Range                  | 0.01 $\mu\text{F}$ ~20 $\mu\text{F}$   |                           |      |      |      |
| ● 电容量偏差 Capacity Tolerance                 | $\pm 5\%$ (J); $\pm 10\%$ (K); $\pm 20\%$ (M)                                |                           |      |      |      |
| ● 耐电压 Withstand Voltage                    | $V_{\text{tt}}$ : 1.6UN 5S (at 20 $\pm 5^\circ\text{C}$ )                    |                           |      |      |      |
| ● 损耗角正切 Dissipation Factor                 | $\text{tg}\delta \leq 0.0010$ (20°C, 1KHz)                                   |                           |      |      |      |
| ● 绝缘电阻 Insulation Resistance               | $C \leq 0.33\mu\text{F}$ $R \geq 100000\text{M}\Omega$ (at 20°C 100VDC 1Min) |                           |      |      |      |
|  | $C > 0.33\mu\text{F}$ $\text{RCN} \geq 30000\text{S}$ (at 20°C 100VDC 1Min)  |                           |      |      |      |
| ● 最大脉冲爬升速度 Maximum Pulse Rise Time (dV/dt) | $U_N$ (V)  | dV/dt (V/ $\mu\text{S}$ ) |      |      |      |
|  |  | P=7.5                     | P=10 | P=15 | P=20 |
|  | 100VDC   | 120                       | 110  | 100  | 70   |
|  | 250VDC   | 240                       | 220  | 200  | 120  |
|  | 400VDC   | ---                       | 330  | 300  | 180  |
| 630VDC                                     | ---  | 320                       | 400  | 240  |      |

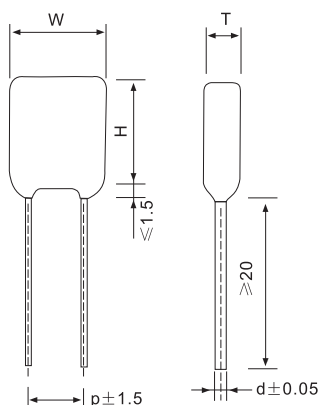
## 结构图.Construction Diagram



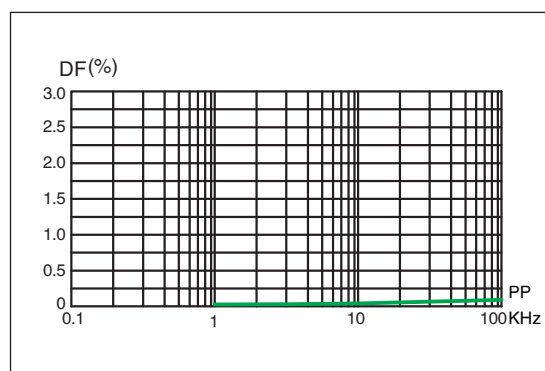
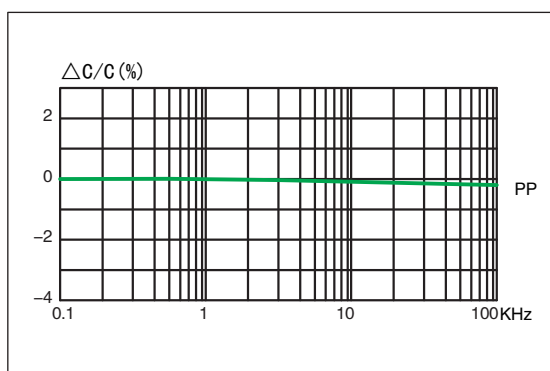
## CBB22

## Metallized Polypropylene Film capacitors

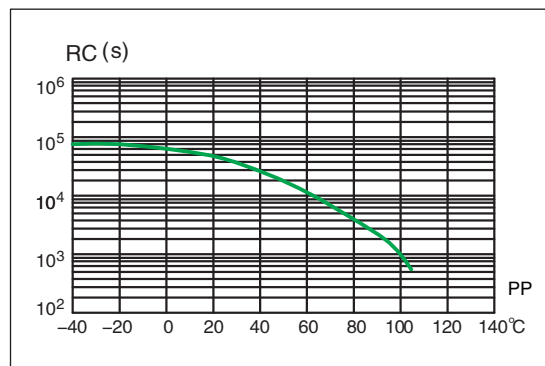
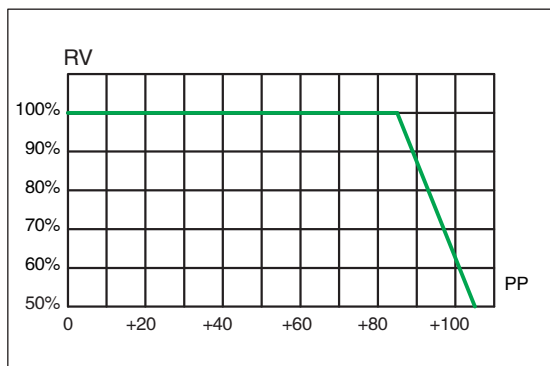
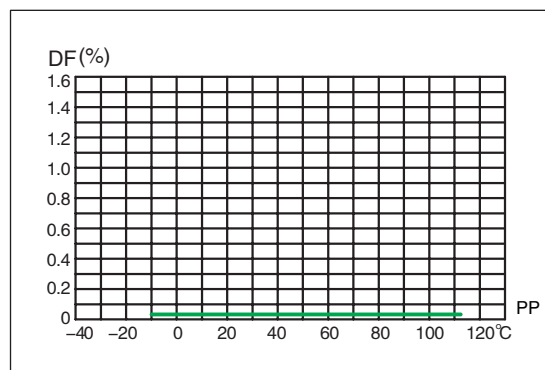
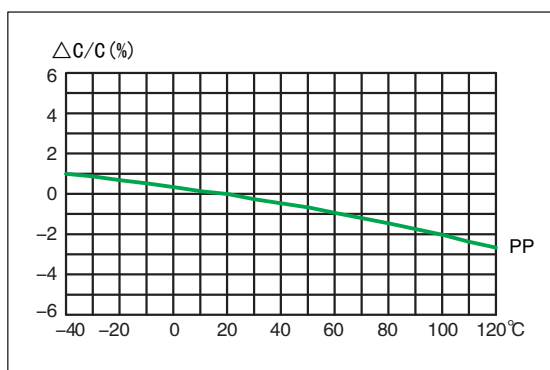
### 产品外形.Product Shape



### 频率特性.Temperature Characteristics



### 温度特性.Frequency Characteristics



## CBB22

## Metallized Polypropylene Film capacitors

参数表.Article Table

R 系列

| Capacity<br>( $\mu$ F) | 尺寸标注<br>Size mark | 250V |      |      |      |     | 400V |      |      |      |     | 630V |      |      |      |     |
|------------------------|-------------------|------|------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|
|                        |                   | Wmax | Tmax | Hmax | P    | d   | Wmax | Tmax | Hmax | P    | d   | Wmax | Tmax | Hmax | P    | d   |
| 0.0100                 | R                 |      |      |      |      |     | 13.0 | 4.5  | 8.5  | 10.0 | 0.6 | 13.0 | 5.0  | 9.0  | 10.0 | 0.6 |
| 0.0150                 | R                 |      |      |      |      |     | 13.0 | 5.5  | 9.5  | 10.0 | 0.6 | 13.0 | 5.5  | 9.5  | 10.0 | 0.6 |
| 0.0220                 | R                 |      |      |      |      |     | 13.0 | 6.5  | 10.5 | 10.0 | 0.6 | 13.0 | 6.5  | 10.5 | 10.0 | 0.6 |
| 0.0330                 | R                 |      |      |      |      |     | 13.0 | 5.0  | 9.0  | 10.0 | 0.6 | 13.0 | 5.0  | 10.0 | 10.0 | 0.6 |
| 0.0470                 | R                 | 10.0 | 4.5  | 8.5  | 7.5  | 0.5 | 13.0 | 4.5  | 8.5  | 10.0 | 0.6 | 13.0 | 6.0  | 10.0 | 10.0 | 0.6 |
| 0.0680                 | R                 | 10.0 | 5.0  | 9.0  | 7.5  | 0.5 | 13.0 | 5.0  | 9.0  | 10.0 | 0.6 | 13.0 | 7.0  | 11.0 | 10.0 | 0.6 |
| 0.0820                 | R                 | 13.0 | 5.0  | 9.0  | 10.0 | 0.6 | 13.0 | 5.5  | 9.5  | 10.0 | 0.6 |      |      |      |      |     |
| 0.1000                 | R                 | 13.0 | 5.5  | 9.5  | 10.0 | 0.6 | 13.0 | 6.0  | 10.0 | 10.0 | 0.6 | 13.0 | 8.0  | 12.5 | 10.0 | 0.8 |
| 0.1500                 | R                 | 13.0 | 6.0  | 10.0 | 10.0 | 0.6 | 13.0 | 7.5  | 11.5 | 10.0 | 0.6 | 18.0 | 6.0  | 12.5 | 15.0 | 0.6 |
| 0.2200                 | R                 | 13.0 | 7.5  | 11.5 | 10.0 | 0.6 | 18.0 | 6.5  | 11.5 | 15.0 | 0.8 | 18.0 | 8.0  | 13.0 | 15.0 | 0.8 |
| 0.3300                 | R                 | 18.0 | 5.5  | 9.5  | 15.0 | 0.6 | 18.0 | 8.0  | 13.0 | 15.0 | 0.8 | 18.0 | 9.5  | 14.0 | 15.0 | 0.8 |
| 0.4700                 | R                 | 18.0 | 6.5  | 11.5 | 15.0 | 0.8 | 18.0 | 8.5  | 12.5 | 15.0 | 0.8 | 23.0 | 9.0  | 15.5 | 20.0 | 0.8 |
| 0.6800                 | R                 | 18.0 | 7.5  | 12.0 | 15.0 | 0.8 | 23.0 | 8.0  | 13.0 | 20.0 | 0.8 | 23.0 | 11.0 | 17.0 | 20.0 | 0.8 |
| 0.8200                 | R                 | 18.0 | 8.5  | 13.0 | 15.0 | 0.8 | 23.0 | 8.5  | 15.0 | 20.0 | 0.8 | 23.0 | 12.0 | 18.5 | 20.0 | 0.8 |
| 1.0000                 | R                 | 23.0 | 7.5  | 12.5 | 20.0 | 0.8 | 23.0 | 9.0  | 15.5 | 20.0 | 0.8 | 23.0 | 13.0 | 19.5 | 20.0 | 0.8 |
| 1.2000                 | R                 | 23.0 | 8.0  | 14.0 | 20.0 | 0.8 | 23.0 | 10.0 | 16.5 | 20.0 | 0.8 | 30.5 | 12.0 | 18.0 | 27.0 | 0.8 |
| 1.5000                 | R                 | 23.0 | 9.5  | 14.0 | 20.0 | 0.8 | 23.0 | 11.5 | 18.0 | 20.0 | 0.8 | 30.5 | 13.5 | 19.5 | 27.0 | 0.8 |
| 2.2000                 | R                 | 23.0 | 11.0 | 17.0 | 20.0 | 0.8 | 30.5 | 11.5 | 17.5 | 27.0 | 0.8 | 30.5 | 16.5 | 22.5 | 27.0 | 0.8 |
| 3.3000                 | R                 | 30.5 | 11.0 | 17.5 | 27.0 | 0.8 | 30.5 | 14.0 | 20.5 | 27.0 | 0.8 | 34.5 | 19.0 | 25.5 | 31.0 | 0.8 |
| 4.7000                 | R                 | 30.5 | 13.5 | 20.0 | 27.0 | 0.8 | 30.5 | 17.5 | 24.0 | 27.0 | 0.8 | 34.5 | 23.0 | 29.0 | 31.0 | 0.8 |
| 10.0000                | R                 | 30.5 | 20.0 | 26.0 | 27.0 | 0.8 |      |      |      |      |     |      |      |      |      |     |

| Capacity<br>( $\mu$ F) | 尺寸标注<br>Size mark | 250V |      |      |   |   | 400V |      |      |      |     | 630V |      |      |      |     |
|------------------------|-------------------|------|------|------|---|---|------|------|------|------|-----|------|------|------|------|-----|
|                        |                   | Wmax | Tmax | Hmax | P | d | Wmax | Tmax | Hmax | P    | d   | Wmax | Tmax | Hmax | P    | d   |
| 0.0470                 | U                 |      |      |      |   |   |      |      |      |      |     | 11.5 | 4.0  | 8.0  | 10.0 | 0.6 |
| 0.1000                 | U                 |      |      |      |   |   | 13.0 | 4.5  | 9.0  | 10.0 | 0.6 | 13.0 | 6.0  | 10.0 | 10.0 | 0.6 |
| 0.1500                 | U                 |      |      |      |   |   | 13.0 | 6.5  | 10.5 | 10.0 | 0.6 | 13.0 | 7.5  | 12.0 | 10.0 | 0.6 |
| 0.2200                 | U                 |      |      |      |   |   | 13.0 | 7.5  | 11.5 | 10.0 | 0.6 | 18.0 | 6.5  | 11.5 | 15.0 | 0.8 |
| 0.3300                 | U                 |      |      |      |   |   | 18.0 | 7.0  | 11.0 | 15.0 | 0.8 | 18.0 | 8.0  | 13.0 | 15.0 | 0.8 |
| 0.4700                 | U                 |      |      |      |   |   | 18.0 | 6.5  | 11.0 | 15.0 | 0.6 | 18.0 | 9.0  | 15.5 | 15.0 | 0.8 |
| 0.6800                 | U                 |      |      |      |   |   | 18.0 | 7.5  | 12.5 | 15.0 | 0.6 | 23.0 | 9.0  | 15.5 | 20.0 | 0.8 |
| 0.8200                 | U                 |      |      |      |   |   | 23.0 | 7.5  | 12.0 | 20.0 | 0.6 | 23.0 | 10.0 | 16.5 | 20.0 | 0.8 |
| 1.0000                 | U                 |      |      |      |   |   | 23.0 | 7.5  | 12.5 | 20.0 | 0.8 | 30.5 | 10.0 | 16.0 | 27.0 | 0.8 |
| 1.2000                 | U                 |      |      |      |   |   | 23.0 | 8.5  | 13.5 | 20.0 | 0.8 | 30.5 | 10.0 | 16.5 | 27.0 | 0.8 |
| 1.5000                 | U                 |      |      |      |   |   | 23.0 | 8.5  | 15.0 | 20.0 | 0.8 | 30.5 | 12.0 | 17.0 | 27.0 | 0.8 |
| 2.2000                 | U                 |      |      |      |   |   | 30.5 | 9.0  | 15.5 | 27.0 | 0.8 | 30.5 | 14.0 | 20.5 | 27.0 | 0.8 |
| 3.3000                 | U                 |      |      |      |   |   | 30.5 | 12.5 | 19.0 | 27.0 | 0.8 | 34.5 | 16.0 | 22.5 | 31.0 | 0.8 |
| 4.7000                 | U                 |      |      |      |   |   |      |      |      |      |     | 34.5 | 19.5 | 26.0 | 31.0 | 0.8 |

以上表格/图形仅供参考, 以实物为准。 The above table / graphics are for reference only, subject to the actual product (unit: mm)

特别说明:

U系列产品较R系列产品的体积略小, 产品性能达到GB/T 10190(IEC 60384-16)的标准

Remark:

The U series has a smaller volume than the R series products, and its product performance reaches GB/T 10190 (IEC 60384-16) standard.