



金属化丙烯膜箔式高压电容器---CBB81(PPS)系列

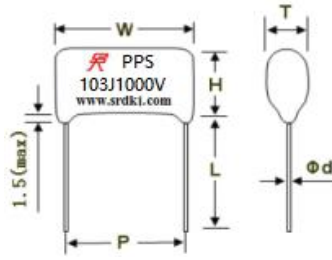
Metallized Polypropylene Film And Foil Capacitors---CBB81(PPS)series

引用标准 Reference standards

GB10188 (IEC384-13)

结构 Structure

介质: 聚丙烯膜
 电极: 金属真空蒸发层和铝箔
 封装: 阻燃粉末环氧树脂, 符合 UL94V-0



Dielectric: Polypropylene film

Electrode: Metal vacuum evaporation layer and aluminum foil

Encapsulation: inflame retardant power epoxy resin, conforming to UL94 V-0

典型应用 Typical Application

高频、直流、交流及脉冲大电流场合 如: 灯具、电源, 显示器及彩电行逆程线路等 电子整流器, 节能灯等
 high frequency, direct current, alternating current or large pulse current occasion

For example damp, power supply, display and colorful TV lines retrace circuits, electronic rectifier, energy-saving lamps etc

特点 Features

有良如自愈性能。高频损耗小, 温升高, 高冲击强度。内部串联结构, 电压高, 过电流大等

Small volume with good self-healing property, low dissipation at high frequency, low temperature rise

High impact strength. Internal series structure, high voltage, large current passage etc.

符合 RoHS 及 REACH 环保标准 Compliance with RoHS & REACH requirements.

电性能规范 Performance Specifications

| | | | | | | | |
|---|---|------|------|---|------|--------|--------|
| 气候类别 Climate category | 40/105/56 | | | | | | |
| 额定温度 Rated Temperature | 85°C | | | | | | |
| 工作温度范围 Operating Temperature range | -40°C--+105°C. (+85°C~+105°C): decreasing factor 1.5% per °C for R.V(DC) (+85°C~+105°C): 额定电压降额使用系数 1.5% per °C for R.V(DC) | | | | | | |
| 额定电压 Rated Voltage | 630VDC, 1000VDC, 1250VDC, 1600VDC, 2000VDC, 3000VDC | | | | | | |
| 容量误差 Capacitance Tolerance | J: ±5% | | | | | | |
| 容量范围 Capacitance Range | 0.001µF~22µF 测试条件 Test Condition: 20°C, 1KHz, 1Vrms | | | | | | |
| 耐电压 Withstand Voltage | 2.0U _R ,5S | | | 无击穿或飞弧 No breakdown or electric arcing | | | |
| 损耗角 Dissipation factor | ≤0.001 (1KHz) | | | 测试条件 Test Condition : 20°C 1Vrms | | | |
| 绝缘电阻或时间常数 Insulation Resistance | C _R ≤0.1µF IR≥30000MΩ C _R >0.1µF IR≥10000S | | | 测试条件 Test Condition : 20°C 100V 1 min | | | |
| 最大脉冲爬升速率 Max. Pulse Rise Time (dV / dt) | P=10 | P=15 | P=20 | P=22.2 | P=25 | P=27.5 | P=31.5 |
| | 1000 | 1500 | 1000 | 500 | 500 | 500 | 500 |



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电性能规范 Performance Specifications

| | | |
|--|---|---|
| 稳态湿热 Steady-state Damp-heat Test | 温度 Temp.: 40±2℃ 相对湿度 Humidity: 93%RH 持续时间 Duration Time: 56 Days | 无可见损伤, 标志清晰 no visible damage, clear mark 绝缘电阻 IR: ≥ 额定值的 50% IR: ≥ 50% of Rated value 容量变化 (相对初始值): Capacitance change (relative to the initial value): $\Delta C/C \leq \pm 5\%$ 损耗角增加 Dissipation factor: Rise ≤ 0.0020 (1KHz), $C_R > 1\mu F$ |
| 耐久性试验 Endurance Test | 温度 Temp.: +85℃, 电压 Voltage: 1.25 Times Rated Voltage 持续时间 Duration Time: 1000H | 绝缘电阻 Insulation Resistance IR: ≥ 额定值的 50% IR: ≥ 50% of rated value 损耗角增加: ≤ 0.0040 dissipation factor rise: ≤ 0.0040 容量变化 (相对初始值): $\Delta C/C \leq \pm 10\%$ Capacitance change (relative to the initial value): $\Delta C/C \leq \pm 10\%$ |

产品编码说明 Part No. Description:

18 位产品编码如下:

The Part No. is total 18 digits, details as follow:

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| P | P | S | 1 | 0 | 4 | J | 3 | C | 2 | 9 | 1 | 5 | 2 | 3 | 8 | * | * |

| | | |
|-------------|---------------------------------------|--|
| Digit 1-3 | 型号代码 Product series Code | PPS= CBB81 series |
| Digit 4-6 | 标称容量 Rated Capacitance Value | For example : 104 = $10 \times 10^4 \mu F = 0.1 \mu F$ |
| Digit 7 | 容量偏差 Capacitance Tolerance | J=±5% K=±10% |
| Digit 8-9 | 额定电压 Rated Voltage Code | 2J=630VDC 3A=1000VDC 3C=1600VDC 3D=2000VDC |
| Digit 10-15 | 外形尺寸 Dimensions Code | |
| Digit 16 | 线径代码 Line diameter code | 6=0.6 8=0.8 1=1.0 |
| Digit 17-18 | 成型或内部识别码 Forming Type or Internal Use | |



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料号明细及尺寸 Part No. List and Dimensions

| U_R:1000Vdc | | | | | | | |
|------------------------------|--------------|---------------------------|-------------------|------|------|-------|---------|
| 成品编码 Part No. | 系列 Series | 容量 Capacitance (μF) | 尺寸 Dimension (mm) | | | | |
| | | | Wmax | Tmax | Hmax | P±0.5 | Φd±0.05 |
| PPS104J3A2608158LC | PPS | 0.1 | 25 | 8 | 15 | 22.5 | 0.8 |
| PPS104J3A2612198LC | PPS | 0.1 | 25 | 12 | 19.5 | 22.5 | 0.8 |
| PPS332J3A1307126LC | PPS | 0.0033 | 13 | 6 | 11 | 10.0 | 0.6 |
| PPS473J3A1913208LC | PPS | 0.047 | 18 | 11.5 | 19 | 15.0 | 0.8 |
| U_R:1250Vdc | | | | | | | |
| 成品编码 Part No. | 系列 Series | 容量 Capacitance (μF) | 尺寸 Dimension (mm) | | | | |
| | | | Wmax | Tmax | Hmax | P±0.5 | Φd±0.05 |
| PPS102J3B1909148LC | PPS | 0.001 | 18 | 9.5 | 14.5 | 15.0 | 0.8 |
| PPS104J3B2914218LC | PPS | 0.1 | 28 | 12 | 19 | 25.0 | 0.8 |
| PPS153J3B1908138LC | PPS | 0.015 | 18 | 7.5 | 12.5 | 15.0 | 0.8 |
| PPS154J3B2914208LC | PPS | 0.15 | 28 | 12.5 | 18 | 25.0 | 0.8 |
| PPS203J3B2408148LC | PPS | 0.02 | 23 | 7.5 | 13.5 | 20.0 | 0.8 |
| PPS224J3B2922278LC | PPS | 0.2 | 28 | 18 | 26 | 25.0 | 0.8 |
| PPS472J3B1309136LC | PPS | 0.0047 | 13 | 5.5 | 9.5 | 10.0 | 0.6 |
| PPS562J3B1307136LC | PPS | 0.0056 | 13 | 6 | 12 | 10.0 | 0.6 |
| U_R:1600Vdc | | | | | | | |
| 成品编码 Part No. | 系列 Series | 容量 Capacitance (μF) | 尺寸 Dimension (mm) | | | | |
| | | | Wmax | Tmax | Hmax | P±0.5 | Φd±0.05 |
| PPS103J3C1908158LC | PPS | 0.01 | 18 | 8 | 14.5 | 15.0 | 0.8 |
| PPS104J3C2914218LC | PPS | 0.1 | 28 | 12.5 | 19.5 | 25.0 | 0.8 |
| PPS203J3C2911178LC | PPS | 0.02 | 28 | 9.5 | 16.5 | 25.0 | 0.8 |
| PPS822K3C2408158LC | PPS | 0.0082 | 23 | 8 | 15 | 20.0 | 0.8 |
| U_R:2000Vdc | | | | | | | |
| 成品编码 Part No. | 系列 Series | 容量 Capacitance (μF) | 尺寸 Dimension (mm) | | | | |
| | | | Wmax | Tmax | Hmax | P±0.5 | Φd±0.05 |
| PPS151K3D1905106LC | PPS | 0.00015 | 18 | 7.0 | 10.5 | 15.0 | 0.6 |
| PPS223J3D2409148LC | PPS | 0.022 | 23 | 9 | 14 | 20.0 | 0.8 |
| PPS332J3D2408148LC | PPS | 0.0033 | 23 | 8 | 13.5 | 20.0 | 0.8 |
| PPS472J3D2410158LC | PPS | 0.0047 | 23 | 8.5 | 15 | 20.0 | 0.8 |
| PPS562J3D2407138LC | PPS | 0.0056 | 23 | 8 | 12.5 | 20.0 | 0.8 |
| PPS822J3D1911188LC | PPS | 0.0082 | 18 | 9.5 | 16.5 | 15.0 | 0.8 |
| U_R:2500Vdc | | | | | | | |
| 成品编码 Part No. | 系列 Series | 容量 Capacitance (μF) | 尺寸 Dimension (mm) | | | | |
| | | | Wmax | Tmax | Hmax | P±0.5 | Φd±0.05 |
| PPS102J3E1909148LC | PPS | 0.001 | 18 | 10 | 15 | 15.0 | 0.8 |
| PPS103J3E3509168LC | PPS | 0.01 | 34 | 10 | 17 | 31.5 | 0.8 |



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■ 料号明细及尺寸 Part No. List and Dimensions

| U _R :3000Vdc | | | | | | | |
|-------------------------|--------------|---------------------------------|-------------------|------|------|-------------|---------------------|
| 成品编码 Part No. | 系列 Series | 容量 Capacitance (μ F) | 尺寸 Dimension (mm) | | | | |
| | | | Wmax | Tmax | Hmax | P \pm 0.5 | Φ d \pm 0.05 |
| PPS682J3F2415228LC | PPS | 0.0068 | 24 | 15 | 22 | 20.0 | 0.8 |

Note: We can customize the capacitors according to customers special requirements.

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