



产品规格承认书

Product Specification for Approval

客户名: 立创商城
Customer: _____

产品品名: CBB21型金属化聚丙烯膜电容器 (粉包型)
Description: CBB21 Series metallized polypropylene film capacitor (powder dipped) _____

规格型号: CBB21系列
Specifications: _____

圣融达料号: 见《产品尺寸及性能参数-圣融达料号》
Sincerity P/N: _____

客户料号: 见《产品尺寸及性能参数-客户料号》
Customer P/N: _____

产品品牌: 圣融达 (SRD)
Product Brands: _____

制作日期: 2022-11-21
Production Date: _____

| 客户承认 Customer's Approval | | | 圣融达承认 Sincerity Approval | | |
|-----------------------------|---------------|----------------|-----------------------------|---------------|---|
| 接收 Receive | 审核 Checked | 批准 Approved | 制作 Producer | 审核 Checked | 批准 Approved |
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修改记录

Change Record

| 序号 NO | 修改日期 Change Date | 修改内容 Change Content | 修改原因 Change Reason |
|----------|---------------------|------------------------|-----------------------|
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CBB21型金属化聚丙烯膜电容器（粉包型）

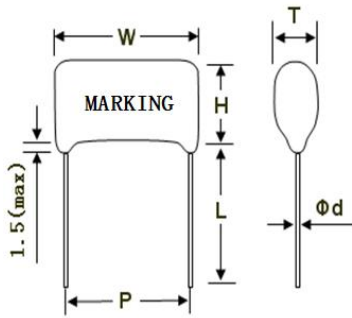
CBB21 series metallized polypropylene film capacitor (powder dipped)

1、产品特点及主要用途Product characteristics and application

采用环氧树脂真空浸封，阻燃粉末包封，适用于交流、直流和脉冲电路

Excellent flame retardant performance, flame retardant epoxy powder coating, Widely used in DC, AC and pulse circuit

2、外形图Outline Drawing

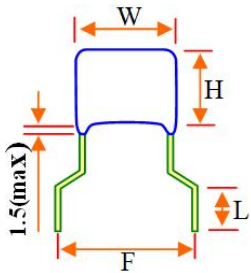


标志示例Marking Example

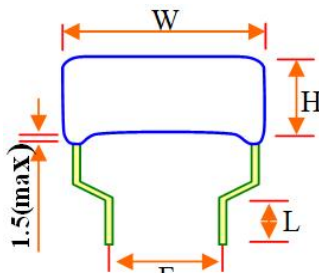


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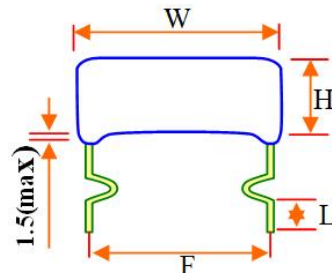
3、引线加工图形Lead forming shape (mm)



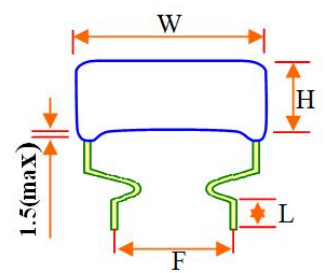
图号Drawing No.1



图号Drawing No.2



图号Drawing No.3



图号Drawing No.4

4、技术参数Specification

| | | |
|------------------------------------|--|--|
| 参照标准Reference Standard | GB/T 10190 | |
| 工作温度范围 Operation Temperature Range | -40°C~105°C (85~105°C decrease factory 1.25%U _R per °C for U _R) | |
| 额定电压 Rated Voltage | 100Vdc、250Vdc、400Vdc、450Vdc、630Vdc、1000Vdc | |
| 电容量范围 Capacitance Range | 0.001μF~10μF | |
| 电容量偏差Capacitance Tolerance | ±5%(J)、±10%(K)、±20%(M)(20°C, 1kHz) | |
| 耐电压 Voltage Proof | 引线之间Between Terminals | 1.6U _R (VDC) , 5s |
| 绝缘电阻Insulation Resistance | C _R ≤0.33μF, R≥25000 MΩ C _R >0.33μF, RC≥7500S (20°C, 1min) | U _R ≤500V, test voltage:100V, U _R >500V, test voltage:500V |
| 损耗角正切Dissipation Factor | tgδ≤0.0010(1kHz) | |

5、产品代码及编写说明: Part number code rules

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

| | | | |
|------------------------|--------------------------------------|--|----------------------------------|
| 第1~3位Digit 1 to 3 | 电容器型号代码Series code | 第4~6位Digit 4 to 6 | 标称容量代码 Rated capacitance code |
| MPP=CBB21 | | ABC=AB×10 ^C pF Example104=10×10 ⁴ pF=0.1μF | |
| 第7位Digit 7 | 容量偏差代码 Capacitance tolerance code | 第8~9位Digit 8 to 9 | 额定电压代码 Rated voltage code |
| J=±5%, K=±10%, M=±20% | | 2G=400V, 2W=450V, 2J=630V, 3A=1000V | |
| 第10~15位Digit 10 to 15 | 外形尺寸代码Dimension code | 第16位Digit 16 | 线径代码 Line diameter code |
| 第17~18位Digit 15 7to 18 | 特殊码Special code | | |

6、产品尺寸及性能参数: Product Dimension and Characteristic Data

| 圣融达料号 | 客户料号 | 额定电压 | 标称容量 Cap | 容量偏差 Tolerance | 外形尺寸(mm) Dimension(mm) | | | | | |
|--------------------|--------------------|---------------|-------------|-------------------|---------------------------|-------|-------|--------|---------|--------|
| | | | | | W max | T max | H max | P ±0.5 | d ±0.05 | L ±0.5 |
| SRD P/N | Customer P/N | Rated Voltage | | | | | | | | |
| MPP152J3B130509500 | MPP152J3B1305095LC | 1250VDC | 0.0015μF | J±5% | 13 | 6.5 | 9.5 | 10 | 0.5 | 3.5 |
| 备注: | 棕红色 | | | | | | | | | |

7、品质保证(产品出厂检查) 试验: Quality ensuring test (before shipment):

| 检查项目(每批) Inspection item (each batch) | 技术要求 | 检查水平IL | 接收质量限AQL |
|--|--|-----------------|----------|
| | | GB 2828一次正常抽样方案 | |
| 外观检查 Appearance inspection | a. 无毛刺、气孔、气泡、露白。 b. 引线无长漆、无氧化、无弯曲。 c. 标识清晰端正居中、无断字等。 A.No burrs, stomata, bubbles, whiteness. B.The lead has no long lacquer, no oxidation, no bending, C.The logo is clearly centered, no broken words, etc. | II | 1.0 |
| 外形尺寸 Dimensions | 按本文件第6条Refer to item 6 | | |
| 容量 Capacitance | 按本文件第4条Refer to item 4 | II | 0.25* |
| 损耗角正切 Dissipation Factor | | | |
| 耐电压 Dielectric strength | | | |
| 绝缘电阻 Insulation resistance | | | |
| 可焊性 Solder ability | 按本文件第8.1条Refer to item8.1 | S-3 | 1.0 |

*: 耐电压不允许失效Voltage proof failure is not allowed

8、试验方法及性能 Test Method And Performance

| No. | 项目 project | 性能要求 Performance requirements | 试验方法 (GB/T 10190) experiment method |
|-----|------------------------------------|--|---|
| 8.1 | 可焊性 Solder ability | 上锡面积90%以上 More than 90% of the tin area | 方法1 method 1 焊料温度 Solder temperature: 245±5°C 浸渍时间 Immersion time: 2.0±0.5s |
| 8.2 | 初始测量 Initial measurement | 电容量 capacitance 损耗角正切 DF: $C_R \leq 1\mu F$, Test frequency: 10kHz $C_R > 1\mu F$, Test frequency: 1kHz | |
| | 引出端强度 Terminal strength | 外观无可见损伤 There shall be no visible damage | 拉力试验 Ual: 拉力: 0.5< ϕ d≤0.8mm: 10N, d>0.8mm: 20N 弯曲试验 Ub: 每个方向上进行二次弯曲 Tensile test Ual: Tension: 0.5< ϕ d≤0.8mm; 10N, d>0.8mm: 20N Bend: test Ub: secondary bending in each direction |
| | 耐焊接热 Resistance to solder heat | | 方法1A: 260±5°C, 5s method 1A : 260±5°C, 5s |
| | 最后测量 Final measurement | 外观无可见损伤 There shall be no visible damage 电容量变化: $\Delta C/C \leq \pm 3\%$ 损耗角正切增加: $C_R \leq 1\mu F \leq 0.004$ (10kHz) $C_R > 1\mu F \leq 0.004$ (1kHz) Capacitance: $\Delta C/C \leq \pm 3\%$ (relative to the initial value) Increase of $\text{tg}\delta$: $C_R \leq 1\mu F \Delta \text{tg}\delta \leq 0.004$ (10kHz) $C_R > 1\mu F \Delta \text{tg}\delta \leq 0.004$ (1kHz) | |
| 8.3 | 初始测量 Initial measurement | 电容量 capacitance 损耗角正切 DF: $C_R \leq 1\mu F$, Test frequency: 10kHz $C_R > 1\mu F$, Test frequency: 1kHz | |
| | 温度快速变化 Rapid temperature change | 外观无可见损伤 There shall be no visible damage | $T_A = -40^\circ C$, $T_B = +105^\circ C$ 5次循环, 持续时间: t=30min 5 cycles, duration: t=30min |
| | 振动 vibration | 外观无可见损伤 There shall be no visible damage | 振幅 0.75mm 或 加速度 98m/s ² (取严酷度较小者), 频率 10~500Hz 三个方向, 每个方向 2h, 共 6h Amplitude 0.75mm or acceleration 98m/s ² (slightly less severe), frequency 10~500Hz three sides Direction, 2h in each direction, total 6h |
| | 碰撞 Bump | | 4000次, 加速度 400 m/s ² , 脉冲持续时间: 6ms 4000 times, acceleration 400 m / s ² , Pulse duration: 6ms |
| | 最后测量 Final measurement | 外观无可见损伤 There shall be no visible damage 电容量变化: $\Delta C/C \leq \pm 3\%$ 损耗角正切增加: $C_R \leq 1\mu F \leq 0.004$ (10kHz) $C_R > 1\mu F \leq 0.004$ (1kHz) 绝缘电阻 IR: ≥额定值的50% Capacitance: $\Delta C/C \leq \pm 3\%$ (relative to the initial value) Increase of $\text{tg}\delta$: $C_R \leq 1\mu F \Delta \text{tg}\delta \leq 0.004$ (10kHz) $C_R > 1\mu F \Delta \text{tg}\delta \leq 0.004$ (1kHz) I.R.: ≥50% of the rated value | |

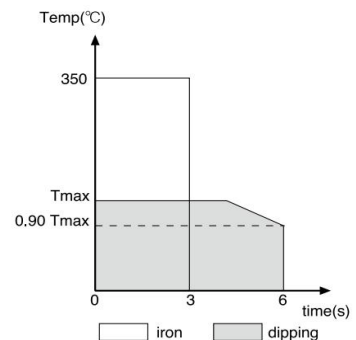
| NO. | 项目 project | 性能要求 Performance requirements | | 试验方法 (GB/T 10190) Test method |
|-----|-----------------------------------|---|---|---|
| 8.4 | 气候顺序 climate sequence | 初始测量 Initial measurement | 按8.2或8.3的最终测量 Refer to item 10.2 and 10.3 final measurement | |
| | | 干热Dry heat | | +105°C, 16h |
| | | 循环湿热 Damp heat, Cyclic | | 试验Db,严酷度b, 第一次循环 Test Db, severity b, First cycle |
| | | 寒冷cold | | -40°C, 2h |
| | | 循环湿热 Damp heat, Cyclic | | 试验Db,严酷度b, 剩余循环 Test Db, severity b, the other cycles, |
| 8.4 | 最后测量 Final measurement | 外观无可见损伤, 标志清晰, 电容量变化: $\Delta C/C \leq 5\%$, 损耗角正切增加: $C_R \leq 1\mu F \leq 0.005$ (10kHz) $C_R > 1\mu F \leq 0.005$ (1kHz) 耐电压: U_R , 1min无击穿或飞弧, 绝缘电阻 IR: \geq 额定值的50% There shall be no visible damage, legible marking $\Delta C/C \leq 5\%$ (relative to the initial value) Increase of $tg\delta$: $C_R \leq 1\mu F \Delta tg\delta \leq 0.005$ (10kHz) $C_R > 1\mu F \Delta tg\delta \leq 0.005$ (1kHz) Voltage proof: Applying U_R , 1min no breakdown and flashover I.R.: $\geq 50\%$ of the rated value | | |
| 8.5 | 稳态湿热 Damp heat steady state | 外观无可见损伤, 标志清晰, 电容量变化: $\Delta C/C \leq 5\%$, 损耗角正切增加: $\Delta tg\delta \leq 0.002$ (1kHz), 耐电压: U_R , 1min无击穿或飞弧, 绝缘电阻 IR: \geq 额定值的50% There shall be no visible damage, legible marking $\Delta C/C \leq 5\%$ (relative to the initial value) Increase of $tg\delta$: $\Delta tg\delta \leq 0.002$ (1kHz) Voltage proof: Applying U_R , 1min no breakdown and flashover I.R.: $\geq 50\%$ of the rated value | | 温度: $40 \pm 2^\circ C$ 湿度: $93 (+2/-3) \% RH$ 持续时间: 21天 Temperature: $40 \pm 2^\circ C$ Humidity: $93 (+2/-3) \% rh$ Duration: 21 days |
| 8.6 | 耐久性 Endurance | 外观无可见损伤, 标志清晰, 电容量变化: $\Delta C/C \leq 5\%$, 损耗角正切增加: $C_R \leq 1\mu F \leq 0.004$ (10kHz) $C_R > 1\mu F \leq 0.004$ (1kHz) 绝缘电阻 IR: \geq 额定值的50% There shall be no visible damage, legible marking $\Delta C/C \leq 5\%$ (relative to the initial value) Increase of $tg\delta$: $C_R \leq 1\mu F \Delta tg\delta \leq 0.004$ (10kHz) $C_R > 1\mu F \Delta tg\delta \leq 0.004$ (1kHz) no breakdown and flashover I.R.: $\geq 50\%$ of the rated value | | +105°C, $1.25U_R$, 1000h |

| NO. | 项目 project | 性能要求 Performance requirements | 试验方法 (GB/T 10190) Test method |
|-----|--|---|--|
| 8.7 | 随温度而定的特性 Temperature characteristic | 在b, d, f点进行电容量测量: 在下限类别温度-40°C时的特性: $0 \leq (C_b - C_d) / C_d \leq +3\%$ 在上限类别温度105°C时的特性: $-4.0\% \leq (C_f - C_d) / C_d \leq 0$ 在f点上测量绝缘电阻: $IR \geq 2500M\Omega$ $C_R \leq 0.33\mu F$ $IR \geq 750s$ $C_R > 0.33\mu F$ Measuring capacitance at test point b, d, f: Characteristic at lower category temperature -40°C: $0 \leq (C_b - C_d) / C_d \leq +3\%$ Characteristic at upper category temperature +105°C: $-4.0\% \leq (C_f - C_d) / C_d \leq 0$ I.R. (test at point f): $IR \geq 2500M\Omega$ $C_R \leq 0.33\mu F$ $IR \geq 750s$ $C_R > 0.33\mu F$ | 静态法, 电容器依次保持在下述 每个温度: a.(20±2) °C, b.(-40±3) °C, d.(20±2) °C, f.(105±2) °C, g.(20±2) °C Static method: The Capacitors should be kept at the following temperature in turn: a(20±2) °C, b(-40±3) °C, d(20±2) °C, f(105±2) °C, g(20±2) °C |
| 8.8 | 充电和放电 Charging and discharging | 电容量变化: $\Delta C / C \leq 5\%$, 损耗角正切增加: $C_R \leq 1\mu F$ ≤ 0.005 (10kHz) $C_R > 1\mu F$ ≤ 0.005 (1kHz) $\Delta C / C \leq 10\%$ (relative to the initial value) Increase of $tg\delta$: $C_R \leq 1\mu F$ $\Delta tg\delta \leq 0.005$ (10kHz) $C_R > 1\mu F$ $\Delta tg\delta \leq 0.005$ (1kHz) | Ref.item4.13 次数: 10000次 充电持续时间: 0.5S 放电持续时间: 0.5S 充电电压为额定电压 充电电阻: 220/CR (Ω) 或20Ω (取较大者) CR为标称电容量 (μF) Number of times: 10,000 times Charging duration: 0.5s Discharge duration: 0.5s Charging voltage is rated voltage Charging resistance: 220/cr(Ω) or 20Ω (whichever is greater) Cr is the nominal capacitance (μF) |

9、波峰焊接 (最大焊接温度) Peak Welding (Maximum Welding Temperature)

9.1焊接条件请按照右侧的焊接图表: Welding conditions should follow the welding chart on the right side:

| | 最高温度Tmax | 时间Time |
|--------|-------------------------|-------------|
| 预热 | 最高温度 $\leq 130^\circ C$ | $\leq 1min$ |
| 焊接锡炉温度 | $260 \pm 5^\circ C$ | $5 \pm 1s$ |



9.2如需焊接两次, 第二次焊接必须等到电容器恢复到常温。

If twice welding is required, the second welding must wait until the capacitor is restored to normal temperature.

9.3插件产品仅适合使用波峰焊接 Plug-in products are only suitable for wave soldering

10、包装及运输要求 Packaging and transportation requirements

电容器以纸箱包装, 应避免雨雪的直接淋浇和机械损伤, 并保存在-10°C~+40°C温度下, 相对湿度75%以下, 应避免温度剧烈变化, 阳光直射和腐蚀性气体, 存放期不超出12个月。 Capacitors are packaged in Corrugated box, should be stored at temperatures ranging from - 10 to + 40 C, with relative humidity below 75%, drastic temperature changes, direct sunlight and corrosive gases should be avoided. Storage period should not exceed 12 months

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[F850AG102M300C](#) [MTC55L4](#) [MTC56L4](#) [730P205X9400](#) [DEIE2470JAAN00](#) [PA104L30](#)