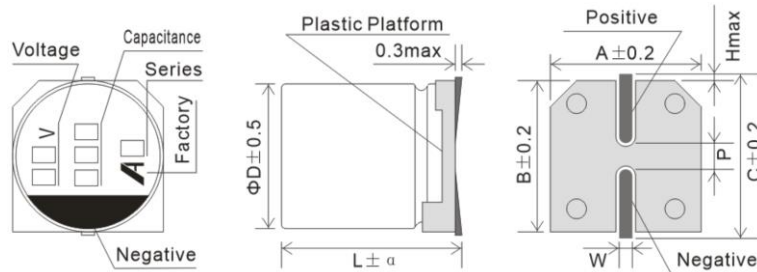


|                         |                                                          |           |
|-------------------------|----------------------------------------------------------|-----------|
| P/N:<br>GVT1J106M0606CN | <b>PRODUCT DATA SHEET</b><br><br>GVT, 63v, 10uF, 6.3x5.7 | Page: 1/2 |
|-------------------------|----------------------------------------------------------|-----------|

■ Description 产品描述:

Al-Ecap, 10uF, 63v,  $\pm 20\%$ , D6.3H5.7mm, 2000Hrs@105°C, -55~+105°C, SMD.

■ Dimension & Marking 印刷及尺寸:

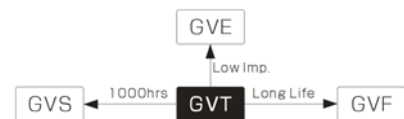


■ Features 特长/用途:

- 105°C, 2,000 hours assured 宽温长寿命
- Designed for surface mounting on high density PC board 适合高密度表面安装

■ Serie Expansion 系列拓展

| Items Case | A   | B   | C   | D   | P   | L   | α    | W       | H       |
|------------|-----|-----|-----|-----|-----|-----|------|---------|---------|
| Φ6.3x5.7   | 6.6 | 6.6 | 7.3 | 6.3 | 2.0 | 5.7 | ±0.5 | 0.5~0.8 | 0.5max. |

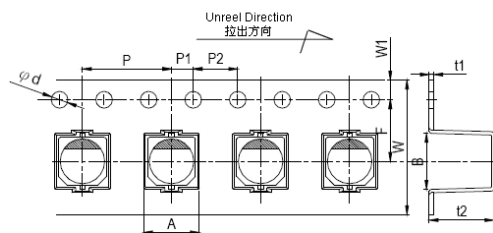


| Items 项目                                          | Performance 性能                           |                                                  |      |                                                  |
|---------------------------------------------------|------------------------------------------|--------------------------------------------------|------|--------------------------------------------------|
| Rated Voltage 额定电压(V <sub>R</sub> )               | 63 V                                     |                                                  |      |                                                  |
| Capacitance 额定容量(C <sub>R</sub> )                 | 10 uF (120Hz, 20°C)                      |                                                  |      |                                                  |
| Category Temperance Range 类别温度范围                  | -55°C ~ +105°C                           |                                                  |      |                                                  |
| Capacitance Tolerance 容量误差                        | -20% ~ +20% (120Hz, 20°C)                |                                                  |      |                                                  |
| Surge Voltage 浪涌电压(V <sub>S</sub> )               | 72.5 V <sub>DC</sub>                     |                                                  |      |                                                  |
| Leakage Current 泄漏电流(I <sub>LC</sub> )            | I <sub>LC</sub> ≤ 6.3 uA After 2 minutes |                                                  |      |                                                  |
| Dissipation Factor (Tanδ) 损失角正切值                  | ≤ 0.14 (120Hz, 20°C)                     |                                                  |      |                                                  |
| Ripple Current 纹波电流(I <sub>RC</sub> , rms)        | 24 mA (120Hz, 105°C)                     |                                                  |      |                                                  |
| Low Temperature Characteristics 温度特性(120Hz)       | Impedance ratio 阻抗比(Max.)                | Z <sub>(-25°C)</sub> / Z <sub>(+20°C)</sub>      | 2    |                                                  |
|                                                   |                                          | Z <sub>(-55°C)</sub> / Z <sub>(+20°C)</sub>      | 3    |                                                  |
| Endurance and Shelf Life 耐久性及高温无负荷特性              | Items 项目                                 | Endurance 耐久性                                    |      | Shelf Life Test 高温无负荷                            |
|                                                   | Test Time 测试时长                           | 2,000 Hrs at 105°C; V <sub>R</sub>               |      | 1,000 Hrs at 105°C                               |
|                                                   | Cap. Change 容量变化率                        | Within ±30% of initial Value ≤ 初始值的 ±30%         |      | Within ±30% of initial Value ≤ 初始值的 ±30%         |
|                                                   | Tanδ 损失角正切值                              | Less than 300% of specified Value ≤ 初始规格值的 ±300% |      | Less than 300% of specified Value ≤ 初始规格值的 ±300% |
|                                                   | Leakage Current 漏电流                      | Whitin specified Value ≤ 初始规格值                   |      | Whitin specified Value ≤ 初始规格值                   |
| Ripple Current and Frequency Multipliers 纹波电流频率系数 | Frequency (Hz)                           | 50, 60                                           | 120  | 1k                                               |
|                                                   | Multiplier                               | 0.70                                             | 1.00 | 1.30                                             |
| Standards 参考标准                                    | JIS C 5101-1, -18, IEC 60384-4           |                                                  |      |                                                  |
| Remarks 附注                                        | RoHS Compliance, Halogen-free            |                                                  |      |                                                  |

\* Please refer to "Precautions and Guidelines for Aluminum Electrolytic Capacitors" section in catalog for further details 详细信息请参阅目录中的“铝电解电容器注意事项和指南”

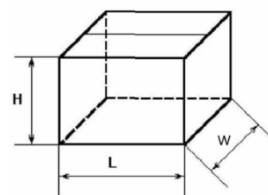
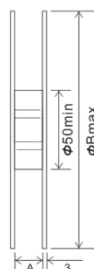
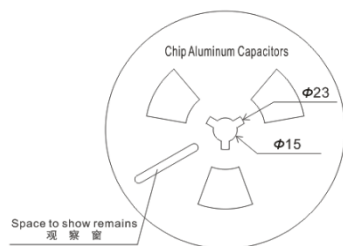
|                       |            |                                                                     |          |         |
|-----------------------|------------|---------------------------------------------------------------------|----------|---------|
| Publication Date 发行日期 | 2022-02-15 | <div>Approved 批准</div> <div>Checked 复核</div> <div>Designed 设计</div> | Lei Yang | Chao Yu |
| Revision Date 修订日期    |            |                                                                     |          |         |
| Version No.           | 1.0        |                                                                     |          |         |

■ Taping Specifications 编带规格:



| Case 尺寸      | W (mm) | W1 (mm) | F (mm) | P (mm) | P1 (mm) | P2 (mm) | A (mm) | B (mm) | t1 (mm) | t2 (mm) |
|--------------|--------|---------|--------|--------|---------|---------|--------|--------|---------|---------|
| Tolerance 误差 | ±0.3   | ±0.15   | ±0.1   | ±0.1   | ±0.1    | ±0.1    | ±0.2   | ±0.2   | ±0.1    | ±0.2    |
| Φ6.3x5.7     | 16     | 1.75    | 7.5    | 12     | 2       | 4       | 7      | 7      | 0.4     | 6.3     |

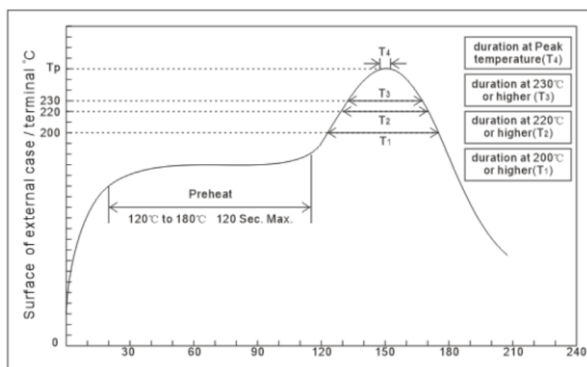
■ Park 包装:



| Case 产品尺寸 | Reel 卷装数量 | Box 盒装数量 | A±0.3(mm) | B±2(mm) | Box size 外箱尺寸(L*W*H) |
|-----------|-----------|----------|-----------|---------|----------------------|
| Φ6.3x5.7  | 1000      | 10000    | 18        | 330     | 395x235x395          |

■ Soldering Conditions 焊接条件:

1. The following conditions are recommended for air convection and infrared reflow soldering on the SMD products onto a glass epoxy circuit boards by cream solder. The temperatures shown are the surface temperature values on the top of the can and on the capacitor terminals. 当使用回流焊，在玻璃环氧树脂树脂基板上进行焊接的时候，产品顶部及端子部分温度，时间的推荐范围如下表所示。
2. Reflow should be performed twice or less 推荐回流次数不超过 2 次。
3. Please ensure that the capacitor became cold enough to the room temperature (5 to 35℃) before the second reflow. 请在第 1 次回流之后，必须确保电容器的温度已经完全冷却到室温(5~35℃)后方可进行第 2 次回流。



Note 备注:

1. Average ramp-up rate is 5°C/second max  
温度上升平均每秒钟最多 5℃；
2. Ramp-down rate is 6°C/second max  
温度下降平均每秒钟最多 6℃；
3. Time from 25°C to peak temperature is 6 minutes max.  
从 25℃上升到峰值温度的时间最多 6 分钟；

| Category 类别 | Time maintained above 200°C (T1)<br>200°C 以上时间 | Time maintained above 217°C (T2)<br>217°C 以上时间 (T2) | Time maintained above 230°C (T3)<br>230°C 以上时间 (T3) | Range of Peak 峰值范围 |           | Reflow number<br>回流焊次数 |
|-------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------|-----------|------------------------|
|             |                                                |                                                     |                                                     | Temp 温度            | Times 时间  |                        |
| Φ6.3        | 105sec.                                        | 90 sec.                                             | 60 sec.                                             | 260°C Max.         | 5sec Max. | 2 times or less        |