

CF75

## Product Data Sheet

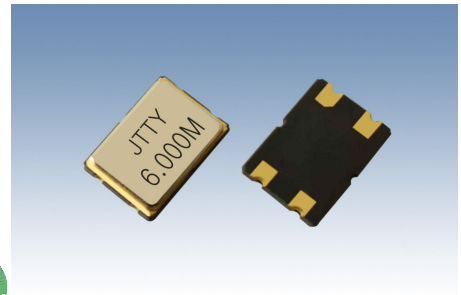
## Miniature SMD Ceramic Base Crystal(5.0×7.0mm)

## 产品特点 FEATURES

- 为CPU提供优秀的时钟信号  
Excellent Clock Signal Generator For CPUs
- 优秀的老化率  
Excellent Aging
- 可选用的频率范围广泛  
Wide Frequency Range Available
- 采用晶体切割技术  
Cut Crystal
- 成本较低  
Low Cost for Standard
- 可回流焊接  
Can reflow

## 应用范围 APPLICATION

- 应用于移动通信  
Application for mobile
- GSM
- PDC
- CDMA



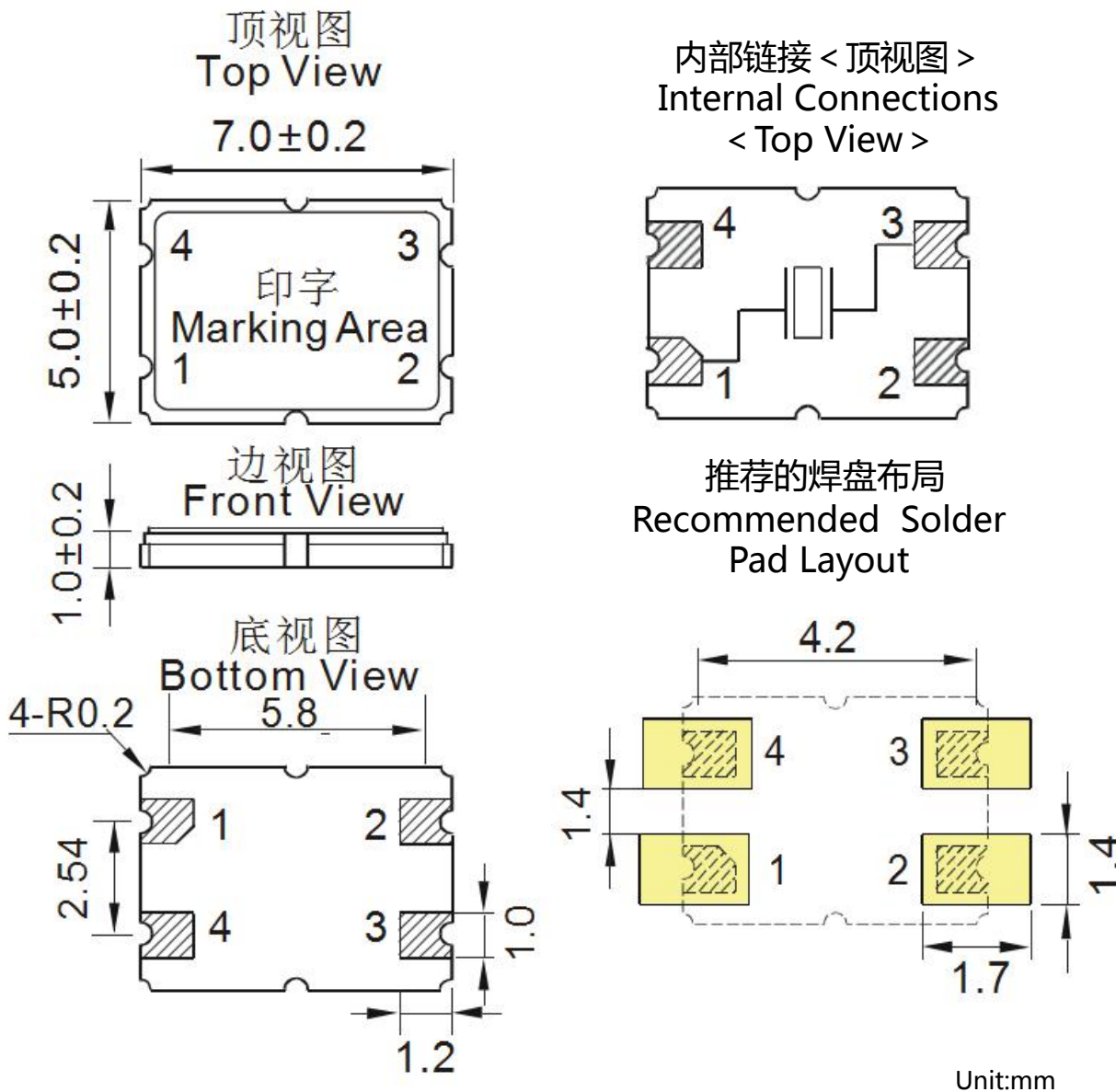
|                                       | 参数                              | Parameter  | 单位                    | 条件                         | 最小值         | 典型         | 最大值        | 备注      | Note                   |         |          |
|---------------------------------------|---------------------------------|--|-----------------------|----------------------------|-------------|------------|------------|---------|------------------------|---------|----------|
|                                       |                                 |  | Unit                  | Condition                  | Min         | Typ        | Max        |         |                        |         |          |
| 电气特性<br>Electrical                    | 频率范围                            | Frequency Range  | MHz                   |                            | 6           |            | 200        |         |                        |         |          |
|                                       | 标称频率                            | Nominal Frequency  | MHz                   |                            |             |            |            | 自定义     | Custom                 |         |          |
|                                       | 频率精度                            | Frequency Tolerance  | ppm                   | @25°C                      | ±5          |            | ±50        | 注 1     | Note 1                 |         |          |
|                                       | 频率稳定度                           | Frequency Stability  | ppm                   |                            | ±5          |            | ±100       | 注 2     | Note 2                 |         |          |
|                                       | 工作温度范围<br>Operating Temp. Range |  | °C                    |                            |             | -20 ~ +70  |            | 标准      | Standard               |         |          |
|                                       |                                 |  |                       |                            |             | -40 ~ +85  |            | 工业控制    | Extended               |         |          |
|                                       |                                 |  |                       |                            |             | -40 ~ +125 |            | 汽车      | Car                    |         |          |
|                                       |                                 |  |                       |                            |             | -55 ~ +125 |            | 汽车及军工   | Car&Military           |         |          |
|                                       | 存储温度                            | Storage Temp.Range   | °C                    |                            |             |            | -55 ~ +125 |         |                        |         |          |
|                                       | 静电容                             | Shunt Capacitance(C0)  | pF                    |                            |             |            | 5.0        |         |                        |         |          |
|                                       | 谐振电阻                            | Equival. SeriesResistance(ESR)   | Ω                     |                            |             |            |            | 见下面     | As ShowBelow           |         |          |
|                                       | 负载电容                            | Load Capacitance(CL)   | pF                    | 客户指定<br>Customer Specified |             | 6~50 & ∞   |            | 其他可选用   | OtherOptions Available |         |          |
|                                       | 激励功率                            | Drive Level  | μW                    |                            |             | 10         |            | 200     |                        |         |          |
|                                       | 老化率                             | Aging Per Year   | ppm                   | @25°C                      |             |            |            | ±2.0    |                        |         |          |
| 绝缘电阻                                  | Insulation Reststance           | MΩ   | 在100V直流电<br>At 100VDC |                            | 500         |            |            |         |                        |         |          |
| 温度稳定性<br>Temperature Stability        | 频率范围                            | Frequency Range  |                       | 震动模式                       | Mode        | 最大串联谐振电阻   |            |         | ESR(Ω)Max              |         |          |
|                                       | 6.000~16.000                    |  |                       | 基频振荡                       | Fundamental |            |            |         | 80                     |         |          |
|                                       | 16.000~30.000                   |  |                       | 基频振荡                       | Fundamental |            |            |         | 40                     |         |          |
|                                       | 30.000~45.000                   |  |                       | 基频振荡                       | Fundamenta  |            |            |         | 30                     |         |          |
|                                       | 45.000~200.000                  |  |                       | 基频振荡                       | Fundamenta  |            |            |         | 50                     |         |          |
| 环境和机械<br>Environmental And Mechanical | 温度范围稳定性                         | Stability Temp.Ranges  |                       | 典型的温度特性                    | ±5 ppm      | ±10 ppm    | ±15 ppm    | ±20 ppm | ±25 ppm                | ±50 ppm | ±100 ppm |
|                                       | -20°C to +70°C                  |  |                       |                            | Y           | Y          | Y          | Y       | Y                      | Y       | Y        |
|                                       | -40°C to +85°C                  |  |                       |                            |             | Y          | Y          | Y       | Y                      | Y       | Y        |
|                                       | -40°C to +125°C                 |  |                       |                            |             |            |            |         | Y                      | Y       | Y        |
|                                       | -55°C to +125°C                 |  |                       |                            |             |            |            |         | Y                      | Y       | Y        |
| 机械冲击                                  | Mechanical Shock                | 100g, 6ms,产生半正弦波脉冲, (3个方向, X,Y,Z)*<br>100q for 6ms,half Sinewave pulse,3 Shocks in each of 3 axes*       |                       |                            |             |            |            |         |                        |         |          |
| 密封                                    | Hermetic Seal                   | 标准大气压下, 氦气泄漏速度小于 5×10 <sup>-8</sup> ccm/s<br>Leak rate less than 5×10 <sup>-8</sup> atm. ccm/s of helium |                       |                            |             |            |            |         |                        |         |          |
| 焊接条件                                  | Soldering Conditions            | 260°C, 最长时间为10s<br>260°C, for 10s max  |                       |                            |             |            |            |         |                        |         |          |
| 温度循环                                  | Temperature Cycle               | -55°C 到 +125°C,10-100 周期.<br>-55°C to +125°C,10-100 Cycles.  |                       |                            |             |            |            |         |                        |         |          |

备注:

1. 可选 ±5ppm ~ ±50ppm 范围内的公差
2. 稳定性取决于温度范围,从 ±5ppm ~ ±100ppm.
3. 所有规格如有更改,恕不另行通知.
4. \*为定制产品

Notes:

1. Available to meet ±5ppm to ±50ppm tolerances.
2. Stability depends on temp ranges, from ±5ppm to ±100ppm.
3. All specifications are subject to change without notice.
- 4.\*Customized products



所有尺寸是典型的，另有规定除外

All dimensions are typical unless otherwise specified