

承 认 书

SPECIFICATION FOR APPROVAL

客户名称: Customer _____

货 名: Description SMD 2012 石英晶体谐振器

客户料号: Part No _____

物料编号: Code No S2100327121090

频 率: Frequency 32.768KHz

日 期: Date 2020-06-09

备 注: RoHS compliance with Directive (EU) 2015/863

| 制作(Prepare by) | 检查(Check by) | 批准 (Approve by) |
|----------------|--------------|-----------------|
| 江丹娜 | 甘瑛 | 张刚 |

| | |
|-----------------------------|--|
| 客户批准 Approve by customer | |
| 批准日期 Approval date | |

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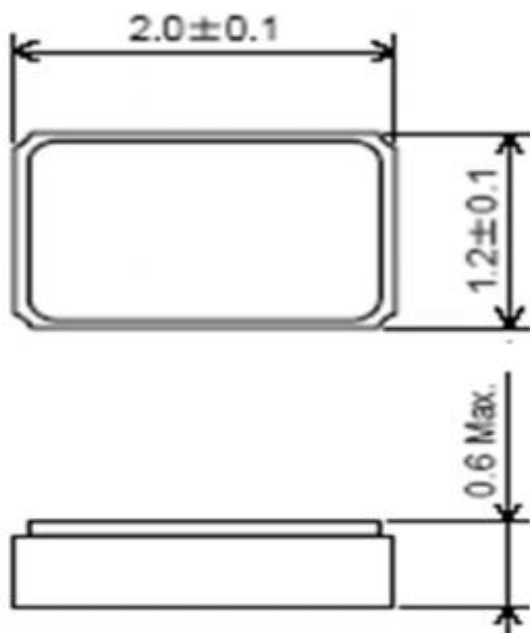
Fax: 86-755-83048280

1.ELECTRICAL SPECIFICATIONS

| | | |
|----|--------------------------------------|------------------------------|
| 1 | 规格型号 Holder Type | SMD2012 |
| 2 | 标称频率 Nominal Frequency | 32.768KHz |
| 3 | 负载电容 Load Capacitance | 12.5pF |
| 4 | 调整频差 Frequency Tolerance at 25°C | ±10ppm |
| 5 | 激励功率 Drive Level | 0.1uW |
| 6 | 等效电阻 Equivalent Series Resistance | 90KΩ Max |
| 7 | 峰值温度(频率)Peak Temperature (Frequency) | 25±5°C |
| 8 | 工作温度 Operating Temperature Range | -40~85°C |
| 9 | 贮存温度 Storage Temperature Range | -55~125°C |
| 10 | 温度频差 Temperature Frequency Stability | -0.04ppm/°C ² |
| 11 | 静电容 Shunt capacitance | 1.3pF |
| 12 | 动态电容 Motional Capacitance | 6.4fF |
| 13 | 绝缘阻抗 Insulation Resistance | 500MΩ/100V±15V _{DC} |
| 14 | 年老化率 Aging | ±3ppm/First year |

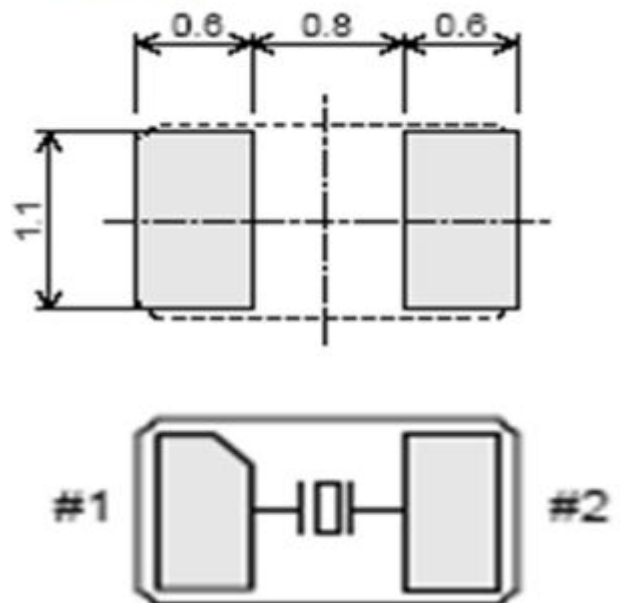
■ DIMENSIONS

(UNIT:mm)

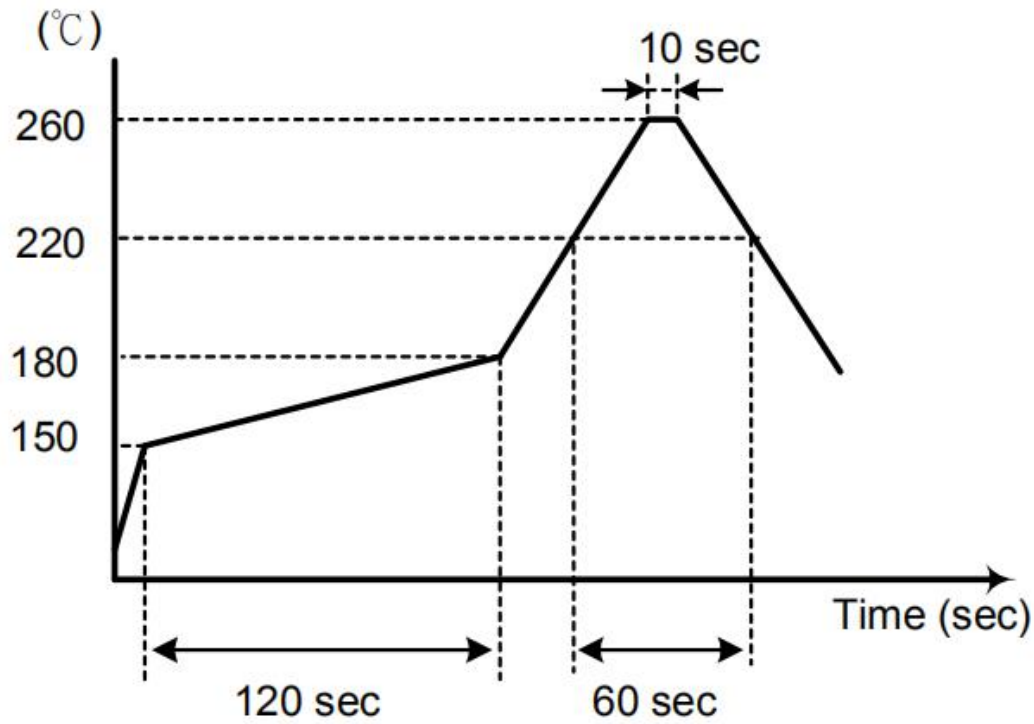


■ RECOMMENDED SOLDER PAD

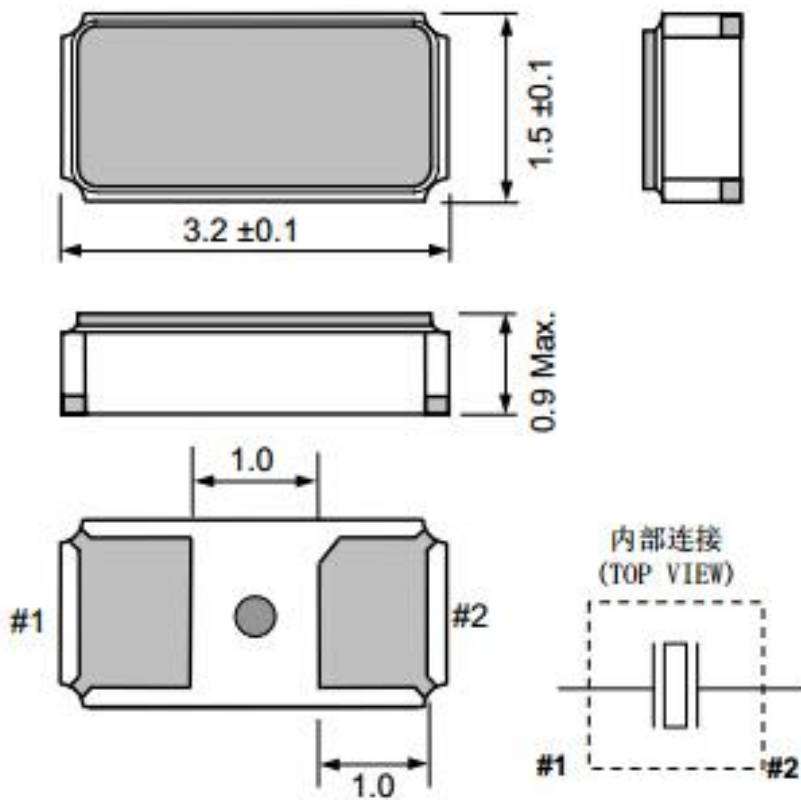
(UNIT:mm)



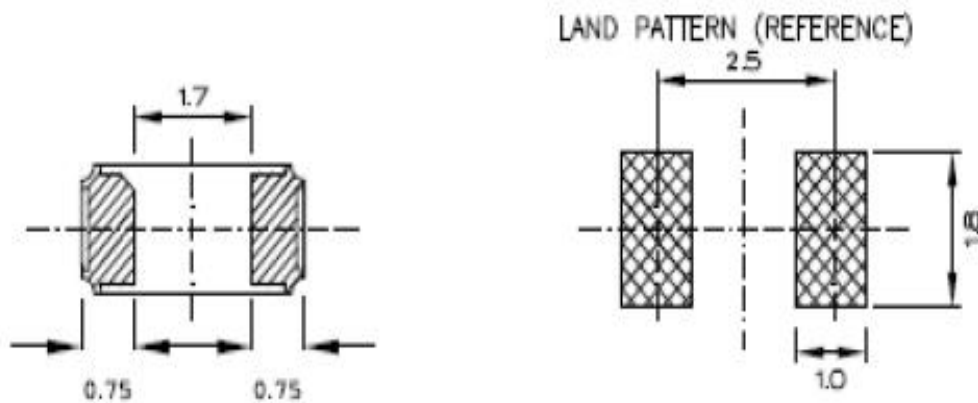
■ SUGGESTED REFLOW PROFILE:



2. Dimensions

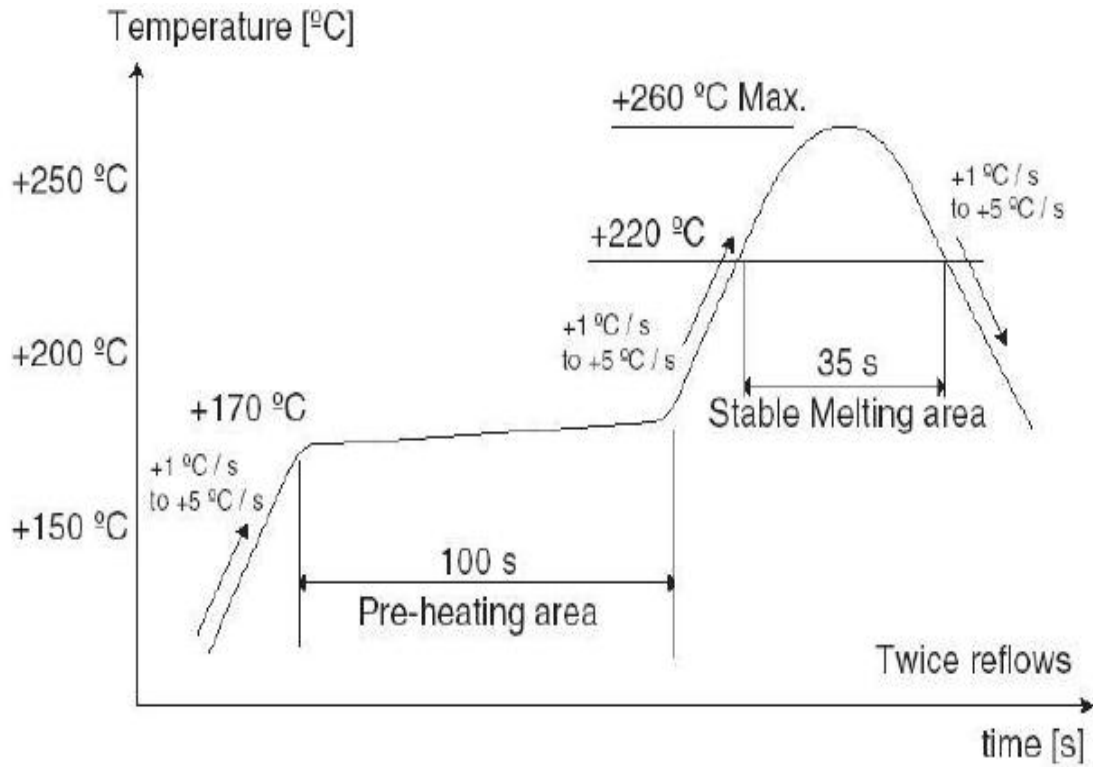


3.Recommended soldering pattern

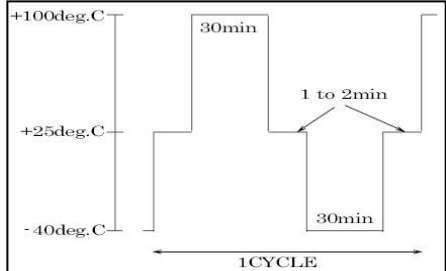


4. Recommended Reflow Profile

Per heating temperature: +170°C
Peak temperature must not exceed =260°C
And the duration of over +220°C should be 35s

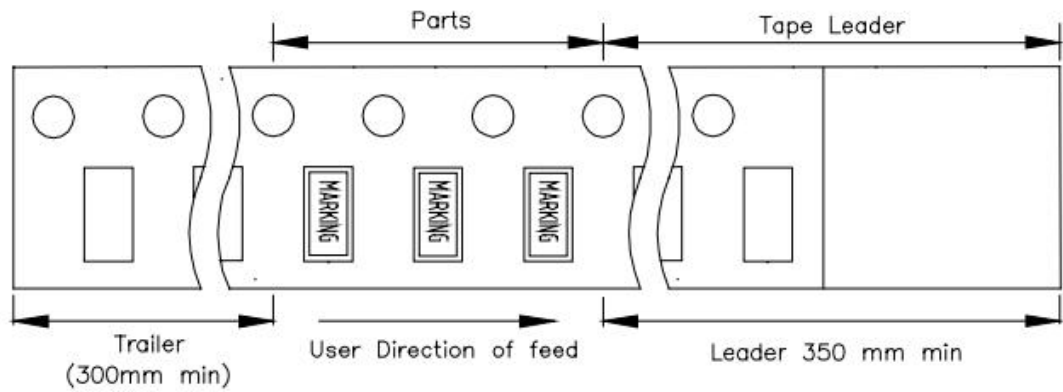
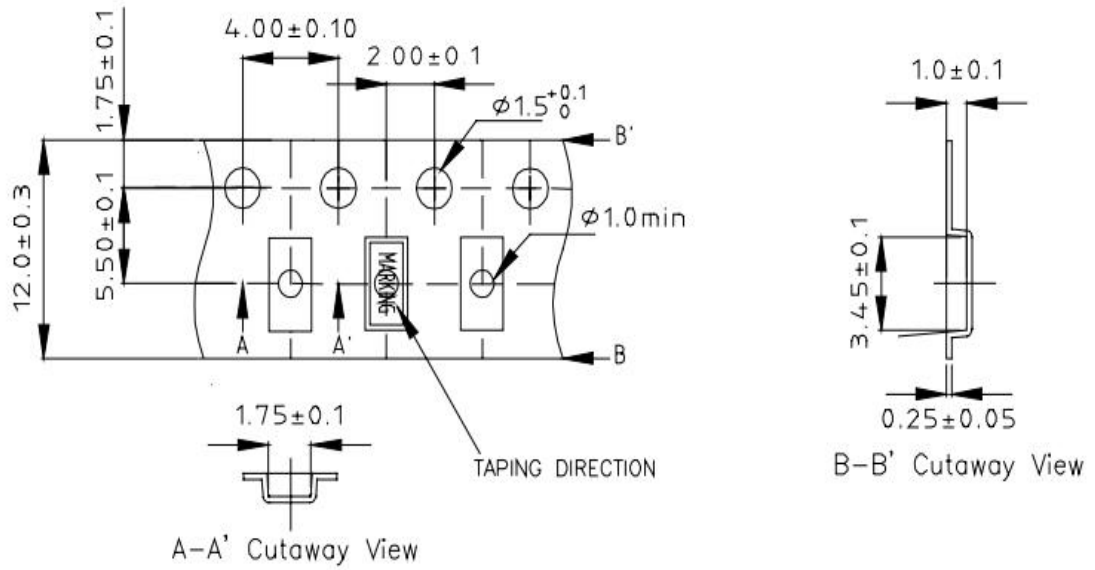


5. Reliability specifications

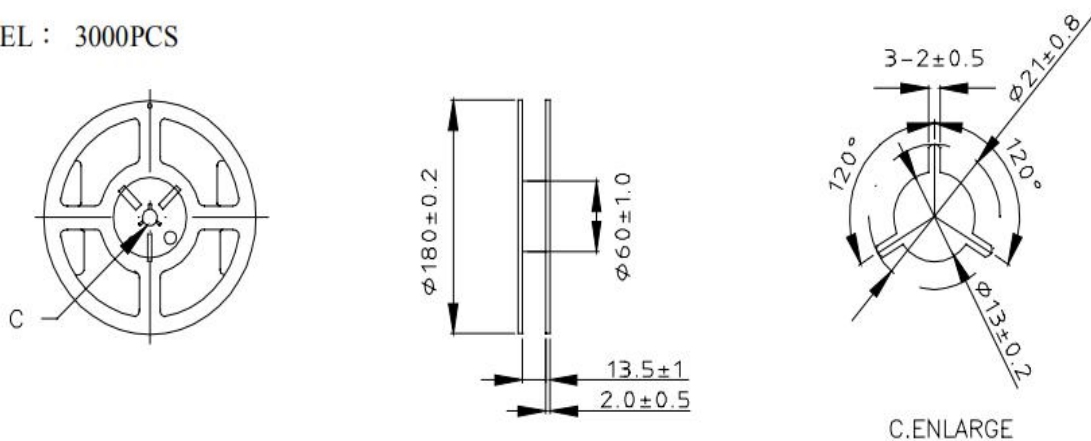
| Test Items | Test Method and Condition | Requirements |
|-------------------|---|---|
| Vibration | (1)Vibration Frequency 10 to 55Hz (2)Vibration Amplitude 1.5mm (3) Cycle Time 1-2min(10-55-10Hz) (4)Direction X.Y.Z (5)Duration 2h/each direction | Frequency Change:±10ppm Max. Resistance Change:±15% or 5kohm Max. |
| Shock | 3 Times free drop from 75cm height to hard wooden board of thickness more than 30mm | Frequency Change:±10ppm Max. Resistance Change:±15% or 5kohm Max. |
| Hermetic seal | Helium leak detector Checked:before the molded crystal units | less than 1×10^{-7} mbar.l/sec. |
| Solder ability | Dip the leads of crystal units into the solution (7-10%) of rosin 3±0.5s,then dip it into the tank 5-10s. Temperature of solder melted tank is 245°C ±5°C | The dipped surface of the leads should be at least 95% covered with continuous new solder coating |
| High temperature | 240 hours at +85°C ± 2°C After 1-2hours past at room temperature from following | Frequency Change:±10ppm Max. Resistance Change:±25% or 10kohm Max. |
| Low temperature | 240 hours at -20°C ±2°C After 1-2hours past at room temperature from following test. | Frequency Change:±10ppm Max. Resistance Change:±15% or 5kohm Max. |
| Humidity | 240 hours at +40°C ±2°C,relative humidity 90-95% After 1-2hours past at room temperature from following | Frequency Change:±10ppm Max. Resistance Change:±25% or 10kohm Max. |
| Temperature cycle | After supplying the following temperature cycle(50cycles)  | Frequency Change:±10ppm Max. Resistance Change:±25% or 10kohm Max. |

6、Packaging standard

1. CARRIER TYPE



2. REEL : 3000PCS



单击下面可查看定价，库存，交付和生命周期等信息

[>>JGHC\(晶光华\)](#)