

凯越翔实业

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# 深圳市凯越翔实业

## 石英谐振器规格书

|           |                |
|-----------|----------------|
| 产品名称:     | 石英晶振谐振器        |
| 产品型号:     | 3225/40.000MHZ |
| 产品参数:     | 15PF/±10ppm    |
| 原厂型号:     | K3A400001510   |
| 尺寸图:      | P. 2 3         |
| 凯越翔实业技术部: | 董宗全            |

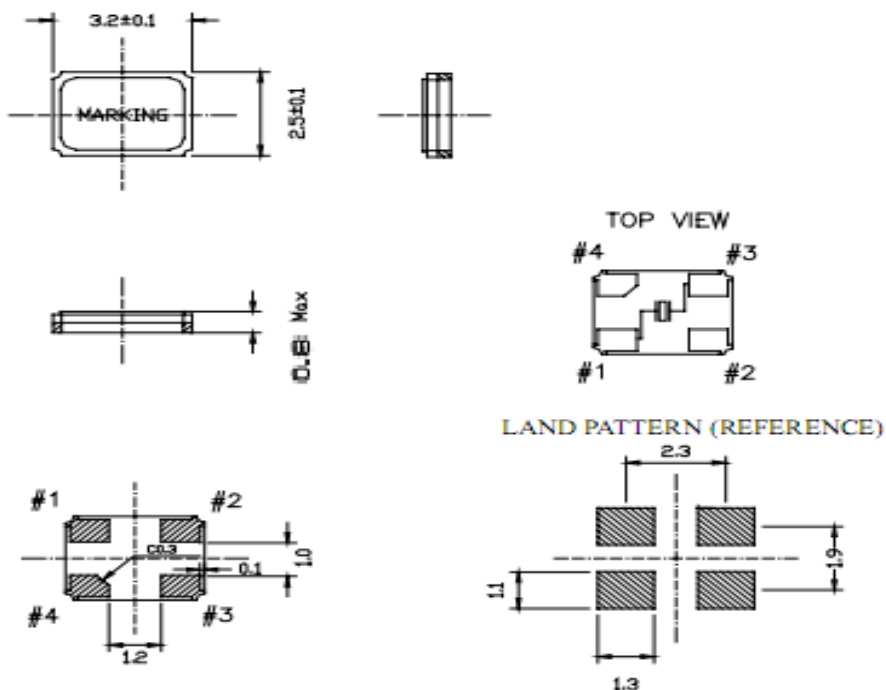
## 客户确认印栏

|        |       |
|--------|-------|
| 客户确认印栏 |       |
| 认证印章   | 负责人印章 |
| 年 月 日  | 年 月 日 |

工厂地址: 深圳市宝安区观澜人民路蔡发工业城一栋四层 TEL: 0755-89315823 89315866 FAX: 0755-89315223  
官网: [www.kaiyuexiang.com](http://www.kaiyuexiang.com)



- |  |                            |
|--|----------------------------|
| 1. Frequency:                                  | <b>40.000 MHZ</b>          |
| 2. Holder Type:                                | SMD3.2*2.5                 |
| 3. Frequency Tolerance:                        | <b>±10ppm at 25°C ±3°C</b> |
| 4. Equivalent Series Resistance:               | <b>40 Ω Max</b>            |
| 5. Storage Temperature Range:                  | -40°C ~ +85°C              |
| 6. Operating Temperature Range:                | -40°C ~ +85°C              |
| 7. Frequency Characteristics Over Temperature: | ±10ppm -40°C ~ +85°C       |
| 8. Load Capacitance (CL):                      | 15 PF                      |
| 9. Drive Level:                                | 100 μ W Max                |
| 10. Shunt Capacitance:                         | 3PF MAX                    |
| 11. Insulation Resistance:                     | ≥500M Ω Min at 100 V       |
| 12. Mode Of Oscillation:                       | Fundamental                |
| 13. Aging:                                     | 3ppm/Year                  |
| Marking description:                           | K40.00 MHZ                 |
| 14. Dimensions(mm):                            |                            |



## 16. Structure Illustration



| PART NAME |       | MATERIAL | PART NAME |           | MATERIAL    |
|-----------|-------|----------|-----------|-----------|-------------|
| 1.        | BASE  | CERAMIC  | 4.        | ELECTRODE | Metal       |
| 2.        | LID   | Co       | 5.        | ADHESMES  | SILVER GLUE |
| 3.        | BLANK | QUARTZ   |           |           |             |

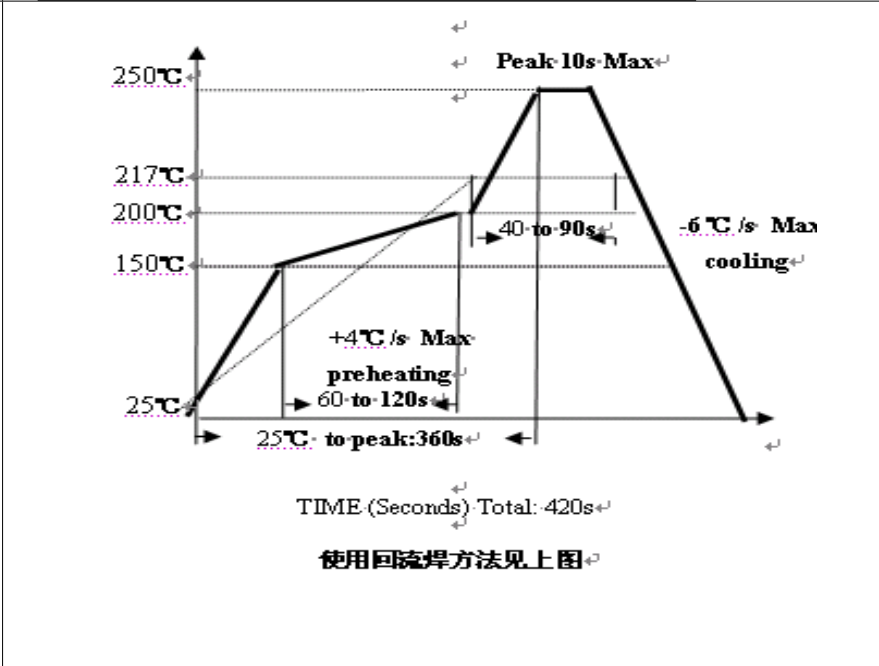
Reliability Testing 可靠性测试项目介绍

| 项目                          | 验条件及要求   | 要求                                    |
|-----------------------------|--|---------------------------------------|
| Vibration<br>振动             | Endurance condition by a frequency sweep shall be made. The entire frequency range from 10HZ to 50HZ and return to 10HZ, shall be transverse in 1min. Amplitude(total excursion):1.5mm this motion shall be applied for a period of 2h each of 3 mutually perpendicular axes(a total of 6h)<br>振动频率: 从 10HZ 到 55HZ,再回到 10HZ 1 倍频程/min 幅度为 1.5mm 3 个相互垂直的方向各 2 小时 | (1). FL: +/-5ppm<br>(2). Rr: +/-15%   |
| Drop<br>跌落                  | Form 70cm height 3 times on 3cm hard wooden floor<br>从 70cm 高处跌落到 3cm 厚的硬质木板上, 重复 3 次  |                                       |
| Shock<br>冲击                 | Peak acceleration:981m/s <sup>2</sup> duration of the pulse :6ms three successive shocks shall be applied in both direction of 3 mutually perpendicular axes(a total of 18 shocks)<br>加速度: 981m/s <sup>2</sup> 时间: 6ms 作用在 3 个相互垂直的方向  | (1). FL: +/-10ppm<br>(2). Rr: +/-80 Ω |
| Damp heat, constant<br>恒定湿热 | The unit shall be stored at a temperature of 40°C±2°Cwith relative humidity of 90%to95% for 48h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made.<br>在温度: 40°C±2°C、湿度: 90%to95%条件下存放 48 小时, 然后在标准大气压下放置 1~2 小时后测试   |                                       |
| Cold<br>低温存储                | The unit shall be stored at a temperature of-40°C±5°C for 48h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made.<br>在-40°C±5°C下存放 48 小时, 然后在标准大气压下放置 1~2 小时后测试   |                                       |
| Dry heat<br>高温存储            | The unit shall be stored at a temperature of 100°C±5°C for 24h, then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made.<br>100°C±5°C下存放 24 小时, 然后在标准大气压下放置 1~2 小时后测试   |                                       |
| Aging<br>老化                 | The unit shall be stored at a temperature of 85°C±5°C for 7d then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made.<br>85°C±5°C下放置 7 天, 然后在标准大气压下放置 1~2 小时后测试   |                                       |
| Temperature cycling<br>温度循环 | The unit shall be subjected to 5 successive change of temperature cycles, each as show in table below,then it shall be subjected to standard atmospheric conditions for 1~2h after which measurement shall be made<br>在下表给定温度和时间参数的条件下循环 5 次, 标准大气压下放置 1~2 小时后测试   |                                       |

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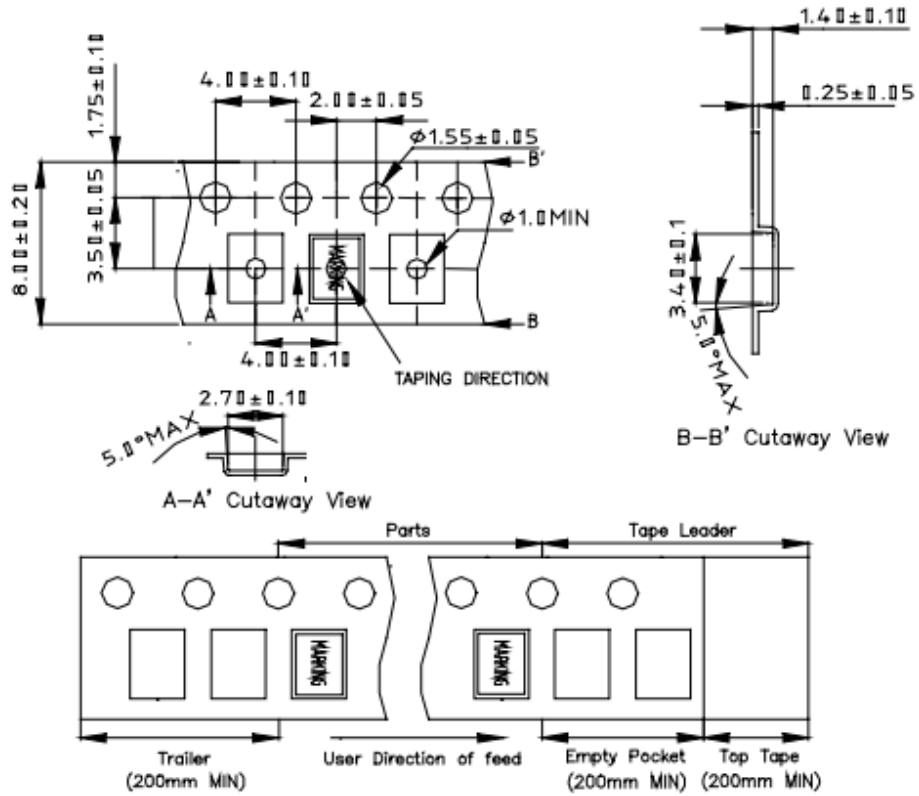
|   | Temperature<br>温度                        | Duration<br>放置时间   |
|---|--|--------------------|
| 1 | -40°C ± 3°C                              | 30min (30分钟)       |
| 2 | Standard atmospheric conditions<br>标准大气压 | Within 30s<br>30秒内 |
| 3 | 100°C ± 3°C                              | 30min (30分钟)       |
| 4 | Standard atmospheric conditions<br>标准大气压 | Within 30s<br>30秒内 |

Resistance to soldering heat  
耐焊接热

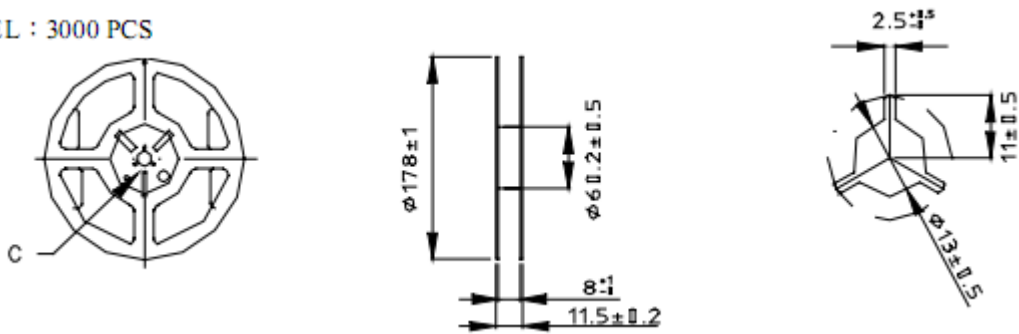


■ PACKING

1. CARRIER TYPE



2. REEL : 3000 PCS



|    |     |    |     |    |     |
|----|-----|----|-----|----|-----|
| 拟制 | 成望生 | 审核 | 董宗全 | 批准 | 赵庸桓 |
|----|-----|----|-----|----|-----|