



## 深圳市凯越翔电子有限公司

### 石英谐振器规格书

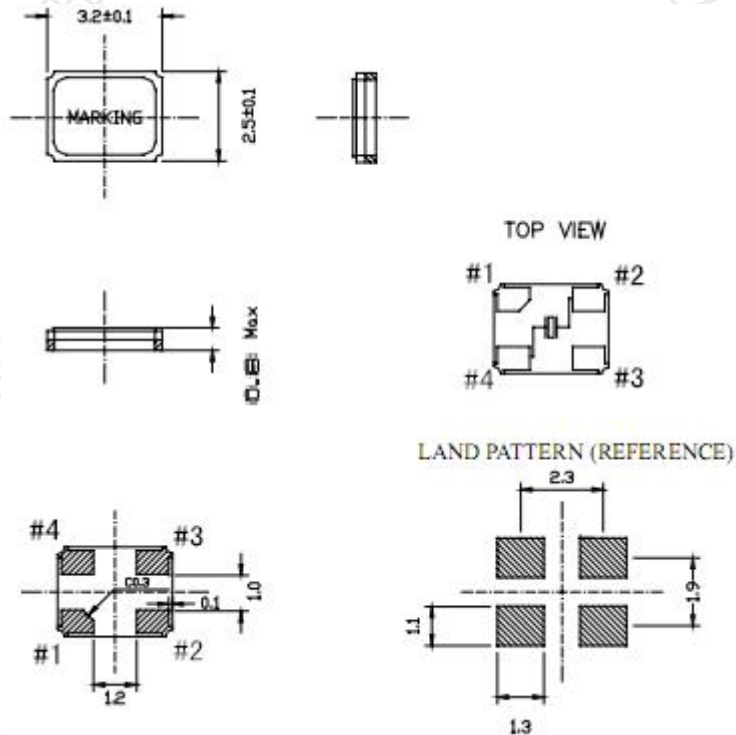
|         |                |
|---------|----------------|
| 产品名称:   | 石英晶振谐振器        |
| 产品型号:   | 3225/12.000MHZ |
| 产品参数:   | 9PF/±10ppm     |
| 原厂型号:   | K3A120000910   |
| 凯越翔技术部: | 董宗全            |

### 客户确认印栏

|       |       |
|-------|-------|
| 认证印章  | 负责人印章 |
| 年 月 日 | 年 月 日 |

本规格章程连同本页合共 6 页

- |  |   |
|--|---|
| 1. Frequency:                                  | 12.000 MHZ  |
| 2. Holder Type:                                | SMD3.2*2.5  |
| 3. Frequency Tolerance:                        | $\pm 10\text{ppm}$ at $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$  |
| 4. Equivalent Series Resistance:               | 80 $\Omega$ Max   |
| 5. Storage Temperature Range:                  | $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$                    |
| 6. Operating Temperature Range:                | $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$                    |
| 7. Frequency Characteristics Over Temperatnre: | $\pm 20\text{ppm}$ $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ |
| 8. Load Capacitance (CL):                      | 9 PF  |
| 9. Drive Level:                                | 100 $\mu$ W   |
| 10. Shunt Capacitance:                         | 5PF MAX   |
| 11. Insulation Resistance:                     | $\geq 500\text{M}\Omega$ Min at 100 V                             |
| 12. Mode Of Oscillation:                       | Fundamental   |
| 13. Aging:                                     | $\pm 3\text{ppm}/\text{Year}$                                     |
| Marking description:                           | KYX12.000   |
| 14. Dimensiors(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 transverseb 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: +/-10ppm<br>(2). Rr: +/-10 Ω |
| 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: +/-10 Ω |
| Damp heat, constant<br>恒定湿热    | The unit shall be stored at a temperature of 40°C ±2°C with 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. 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<br>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 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   |                                       |

|  | <table border="1"> <thead> <tr> <th></th> <th>Temperature<br/>温度</th> <th>Duration<br/>放置时间</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-40°C ± 3°C</td> <td>30min (30 分钟)</td> </tr> <tr> <td>2</td> <td>Standard atmospheric conditions<br/>标准大气压</td> <td>Within 30s<br/>30 秒内</td> </tr> <tr> <td>3</td> <td>100°C ± 3°C</td> <td>30min (30 分钟)</td> </tr> <tr> <td>4</td> <td>Standard atmospheric conditions<br/>标准大气压</td> <td>Within 30s<br/>30 秒内</td> </tr> </tbody> </table> |                     | 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 |  |
|--|---|---------------------|-------------------|------------------|---|-------------|---------------|---|--|---------------------|---|-------------|---------------|---|--|---------------------|--|
|  | 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 |                   |                  |   |             |               |   |  |                     |   |             |               |   |  |                     |  |
| <p>Resistance to soldering heat<br/>耐焊接热</p> | <p>250°C<br/>217°C<br/>200°C<br/>150°C<br/>25°C</p> <p>Peak 10s Max<br/>+4°C/s Max preheating<br/>60 to 120s<br/>40 to 90s<br/>-6°C/s Max cooling<br/>25°C to peak: 360s</p> <p>TIME (Seconds) Total: 420s</p> <p>使用回流焊方法见上图</p>  |                     |                   |                  |   |             |               |   |  |                     |   |             |               |   |  |                     |  |

■ PACKING

1. CARRIER TYPE



2. REEL : 3000 PCS



|    |     |    |     |    |     |
|----|-----|----|-----|----|-----|
| 拟制 | 成望生 | 审核 | 董宗全 | 批准 | 谢为亮 |
|----|-----|----|-----|----|-----|

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Crystals](#) category:*

*Click to view products by [KYY](#) manufacturer:*

Other Similar products are found below :

[CX3225GB25000M0PPSZ1](#) [718-13.2-1](#) [7A-40.000MAAE-T](#) [FL2000085](#) [99-BU](#) [9B-15.360MBBK-B](#) [9C-7.680MBBK-T](#) [H10S-12.000-18-EXT-TR](#) [ABC2-6.000MHZ-D4Z-T](#) [ABLS-20.000MHZ-D2-T](#) [ABS071-32.768KHZ-6-T](#) [R38-32.768-12.5-5PPM-NPB](#) [BTD1062E05A-513](#) [21U15A-21.4MHZ](#) [RTX-781DF1-S-20.950](#) [LFXTAL066198Cutt](#) [9C-14.31818MBBK-T](#) [A-11.000MHZ-27](#) [ABL-27.000MHZ-B4Y-T](#) [ABM11-132-24.000MHZ-T3](#) [ABM3B1-25.000MHZ-D2Y-T](#) [SPT2A-.032768B](#) [SPT2A.032768G](#) [SSPT7F-9PF20-R](#) [LFXTAL065253Cutt](#) [LFXTAL066431Cutt](#) [XT9S20ANA14M7456](#) [XT9SNLANA16M](#) [7A-24.576MBBK-T](#) [7B-30.000MBBK-T](#) [MMCC2R32.7680KHZ](#) [7A-14.31818MBBK-T](#) [6504-202-1501](#) [6526-202-1501](#) [ABLS-12.000MHZ-B2Y-T](#) [7A-10.000MBBK-T](#) [SG636PCE-20.000MC](#) [3404](#) [E1SAA18-25.000M TR](#) [CM315D32768EZFT](#) [C1E-24.000-7-2020-R](#) [C1E-19.200-12-1530-X-R](#) [C1E-16.000-12-1530-X-R](#) [ABM11-16.000MHZ-9-B1U-T](#) [FL5000014](#) [EUCA18-3.1872M](#) [FX0800015](#) [425F35E027M0000](#) [FP0800018](#) [MS3V-T1R-32.768kHz-7pF-20PPM-TA-QC-Au](#)