

(RoHS)

产 品 规 格 书

SPECIFICATION FOR APPROVAL

客户名称

Customer Name:

产品名称

Product Name:

贴片石英晶体谐振器

产品型号:

Product Type:

SMD 3225 (4PIN)

标称频率

Nominal Freq:

50.000000MHz

产品编号

Part Coding

7325-5000A0910-00

规格书编号:

Specification P/N:

XTY0292-7119

客户料号:

Customer P/N:

C389930

日期:

Date:

2019-06-27

客户承认

Approved By Customer:

签章

Signature:

日期

Date:



深圳市新天源电子有限公司

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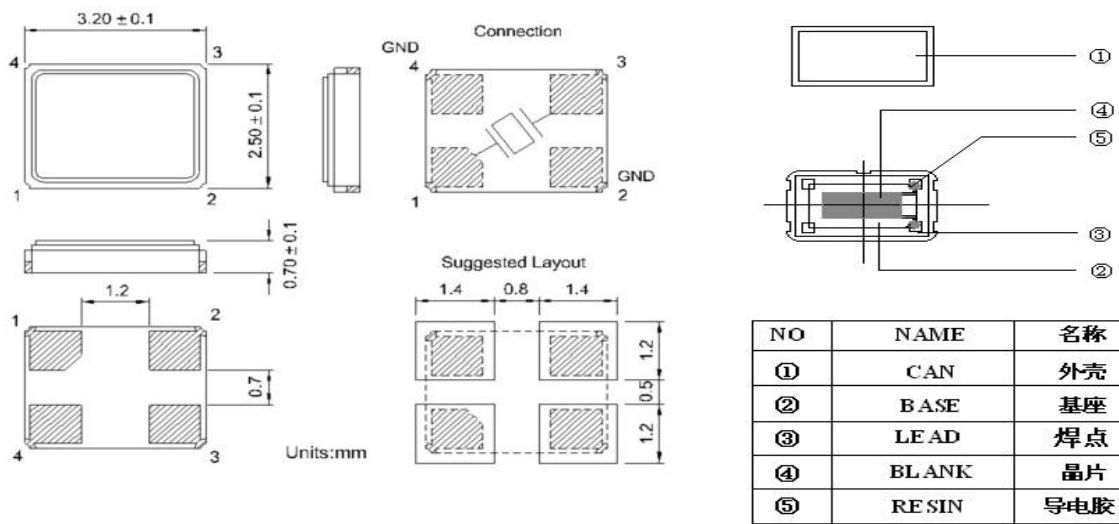
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|-----------------------------------------------------------------------|----------------------------------------------------------|-------------------------|
| <p>深圳市新天源电子有限公司</p> <p>Shenzhen Xintianyuan Electronics Co., Ltd.</p> | <p>石英晶体谐振器规格书</p> <p>Specification of Quartz Crystal</p> | <p>NO: XTY0292-7119</p> |
| | <p>无源 SMD3225 4pin</p> | <p>Date: 2019/06/27</p> |
| <p>一、石英晶体规格参数</p> <p>Quartz Crystal Specification Parameters</p> | | |
| <p>1、产品型号</p> <p>Holder Type</p> | <p>SMD 3225 (4pin)</p> | |
| <p>2、标称频率</p> <p>Nominal Frequency</p> | <p>50.000000MHz</p> | |
| <p>3、振动模式：</p> <p>Mode of Oscillation</p> | <p>Fundamental</p> | |
| <p>4、调整频差</p> <p>Frequency Tolerance at 25°C ±2°C</p> | <p>±10ppm at 25°C ±2°C</p> | |
| <p>5、等效电阻</p> <p>Equivalent Resistance(ESR)</p> | <p>≤40 Ω</p> | |
| <p>6、负载电容</p> <p>Load Capacitance(CL)</p> | <p>9pF</p> | |
| <p>7、温度频差</p> <p>Temperature Characteristics</p> | <p>±20ppm</p> | |
| <p>8、工作温度范围</p> <p>Operating Temperature range</p> | <p>-40~+85°C</p> | |
| <p>9、储存温度范围</p> <p>Storage Temperature range</p> | <p>-55~+125°C</p> | |
| <p>10、激励功率</p> <p>Drive Level</p> | <p>100uW</p> | |
| <p>11、静态电容</p> <p>Shunt Capacitance (C0)</p> | <p><4.0pF</p> | |
| <p>12、绝缘电阻</p> <p>Insulation Resistance</p> | <p>≥500MΩ (DC100V ±15V)</p> | |
| <p>13、测试仪器</p> <p>Measure Instrument</p> | <p>250B</p> | |
| <p>14、年老化率</p> <p>Aging Rate a Year</p> | <p>≤±3ppm/年</p> | |

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二、石英晶体尺寸、结构

Quartz Crystal Dimensions And Structure



三、石英晶体印字

Quartz Crystal Marking



印字: Marking

XTY: 新天源

Y为年(year): 8:2018; 9:2019...

M为月(Month): A:1; B:2...

P为负载 CL:20: 20pF

FF. FFFM为频率Frequency: 27.000M

例8C20: 8为2018年, C为3月, 20为20pF;

年、月、负载代码:

| | | | | | | | | | | | | |
|----|------|------|------|------|------|------|------|------|------|------|------|--------|
| 年 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| 代码 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 月 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 代码 | A | B | C | D | E | F | G | H | I | J | K | L |
| 负载 | 9pF | 10pF | 11pF | 12pF | 13pF | 14pF | 15pF | 16pF | 17pF | 18pF | 19pF | SERIES |
| 代码 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | S |

| | | |
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四、包装要求
Packaging

1. 编带
Tape



| Type | W | E | F | T | P | P0 | P2 | D0 | D1 | A0 | KO | B0 |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| SMD 3225 | 8.00 | 1.75 | 3.50 | 0.25 | 4.00 | 4.00 | 2.00 | ø1.5 | ø1.0 | 2.75 | 0.95 | 3.50 |

Unit: mm

2. 轮
Reel



| Type | A | B | C | D | N | W1 | T1 |
|----------|------|-----|-----|-------|-----|-----|-----|
| SMD 3225 | ø178 | 2.5 | ø13 | ø22.2 | ø60 | 8.5 | 1.0 |

Unit: mm

| | | |
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五、石英晶体可靠性
Reliability Test

| NO. | 测试项目 Test Item | 可靠性条件 Testing Condition | 判定标准 Determinant Criteria |
|-----|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1. | 跌落 Dropping Test | 从75cm高度跌落到30mm厚硬木板上, 跌落三次 Drop the resonators from 75cm height to 30mm thick hardwood board, 3times. | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) |
| 2. | 振动 Vibration | 频率 Frequency:10~60Hz; 幅度 Amplitude:0.75mm; 周期 Cycle time:10-55-10Hz: 1min; 振动方向 Direction:X, Y, Z; 振动时间 Duration: 每个方向2小时 2 h/direction. | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) |
| 3. | 高温 Heat Resistance | 温度Temperature: $125^\circ\text{C} \pm 10^\circ\text{C}$ 时间Time: 720 ± 24 Hours | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) |
| 4. | 低温 Cold Resistance | 温度Temperature: $-40^\circ\text{C} \pm 10^\circ\text{C}$ 时间Time: 720 ± 24 Hours | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) |
| 5. | 回流焊 (2次) Reflow (2times) |  <p>回流焊Reflow $260^\circ\text{C} \pm 5^\circ\text{C} \leq 10\text{s}$</p> | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) |
| 6. | 耐焊接热 Resistance To Soldering Heat | 焊接温度Soldering Heat: $320^\circ\text{C} \pm 10^\circ\text{C}$ 测试时间Test Time: $3.5\text{s} \pm 0.5\text{s}$; | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) |
| 7. | 气密性 Leakage | 用氦质谱仪进行检测, 试验气体: He; 真空度: $1 \times 10^{-3}\text{Pa}$; Helium mass-mass-spectrometer detector, and vacuum and reach $1 \times 10^{-3}\text{Pa}$; | $\leq 1 \times 10^{-8}\text{atm} \cdot \text{cc/S}$ |
| 8. | 高温高湿 Constant Temperature and Humidity | 在温度 $60^\circ\text{C} \pm 5^\circ\text{C}$, 湿度90%~99%, 储存720小时, 取出2小时后测试; Stored at $60^\circ\text{C} \pm 5^\circ\text{C}$, Humidity 90%~99% For a period of minimum 720hours. Then $25^\circ\text{C} \pm 3^\circ\text{C}$ and 2 hours before testing | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) Appearance OK |
| 9. | 温度冲击 Temperature Shock | 低温Low $-40^\circ\text{C} \pm 2^\circ\text{C}$ (120min) \leftrightarrow 高温High $85^\circ\text{C} \pm 2^\circ\text{C}$ (120min); 循环10次; For 10 cycles | $\Delta FL \leq \pm 5\text{ppm}$ $\Delta RS \leq \pm 10\%$ or $5\ \Omega$ (whichever is larger) |

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