

深圳市晶力源科技有限公司  
Shenzhen Jingliyuan Technology Co., Ltd.

产品规格书  
SPECIFICATION

|                     |                          |
|---------------------|--------------------------|
| CUSTOMER(客户):       |                          |
| PRODUCT TYPE(型号):   | SMD-7.0*5.0MM(7050)-4PIN |
| NOMINAL FREQ(频率):   | 50.000MHZ                |
| JLY P/N(料号):        | Y705050MNCCZ             |
| Brand(品牌):          | JLY晶力源                   |
| CUSTOMER P/N(客户料号): |                          |

| Client Opinion (客户意见) |                 |                  |                       |
|-----------------------|-----------------|------------------|-----------------------|
| Hardware PL<br>(工程)   | QPM/SQE<br>(品质) | Approval<br>(核准) | Recognition<br>(承认日期) |
|                       |                 |                  |                       |

| Provider (供应商) |               |                  |                        |
|----------------|---------------|------------------|------------------------|
| Drawn<br>(制作)  | Check<br>(审核) | Approval<br>(核准) | Submitted Date<br>(日期) |
| 刘来凤            | 徐超            | 李元               | 2026-1-05              |

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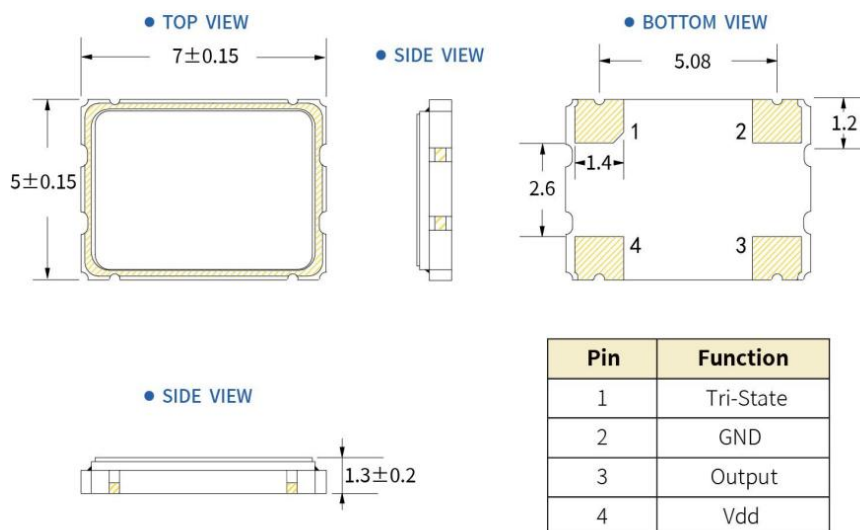
# 深圳市晶力源科技有限公司

## Shenzhen Jingliyuan Technology Co., Ltd.

### ● 参数规格 (Electrical Specifications)

| NO | 项目<br>Item                | 代码<br>Symbol                     | 电气特性规格     |            |            |             | 备注<br>Notes      |
|----|---------------------------|----------------------------------|------------|------------|------------|-------------|------------------|
|    |                           |                                  | 下限<br>Min. | 中心<br>Typ. | 上限<br>Max. | 单位<br>Units |                  |
| 1  | 频率范围Frequency Range       | F0                               | 50.000     |            |            | MHz         |                  |
| 2  | 电压VddSupply Voltage       | Vdd                              | 1.8~3.3    |            |            | V           | ±10%             |
| 3  | 频率稳定性Frequency Stability  | TC                               | -20        |            | 20         | ppm         |                  |
| 4  | 输出负载Output Load           | CMOS                             | 15         |            |            | PF          |                  |
| 5  | 工作温度Operating Temperature | T <sub>use</sub>                 | -40        |            | 85         | °C          |                  |
| 6  | 储存温度Storage Temperature   | T <sub>stg</sub>                 | -55        |            | 125        | °C          |                  |
| 7  | 输出电流Input Current         | I <sub>cc</sub>                  | 10         |            |            | mA          |                  |
| 8  | 上升/下降时间Rise /Fall Time    | Tr/Tf                            |            |            | 4          | ns          |                  |
| 9  | 启动时间Start-up Time         | T <sub>str</sub>                 |            |            | 3          | ms          |                  |
| 10 | 占空比Duty Cycle             | SYM                              | 45         |            | 55         | %           | 50%Vdd           |
| 11 | 输出电压高High output voltage  | Voh                              | 0.9Vdd     |            |            | V           |                  |
| 12 | 输出电压低Low output voltage   | Vol                              |            |            | 0.1Vdd     | V           |                  |
| 13 | 三态Tri-state               | Enable(High Voltage or Floating) |            |            | 0.7Vdd     | V           |                  |
|    |                           | Disahle(Low Voltage or GND)      |            |            | 0.3Vdd     | V           |                  |
| 14 | 老化Aging                   | f <sub>age</sub>                 | -3         | -          | 3          | ppm         | 1st.Year at 25°C |

### ● OUTLINE DIMENSIONS(UNIT:mm) 外形尺寸 (单位: mm)



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### ● RELIABILITY SPECIFICATIONS (信赖度试验)

| No | Test Item (测试项目)                                  | Test Conditions (测试条件)                                                                                                                                                                                                             | Reference (参考)                      |
|----|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1  | High Temperature High Humidity Storage (高温、高湿、储存) | Temperature: 85°C±3°C<br>温度: 85°C±3°C<br>Relative Humidity: 85%RH<br>相对湿度: 85%RH<br>Time: 96 Hours<br>时间: 96小时                                                                                                                     | JIS C5023                           |
| 2  | High Temperature Storage (高温储存)                   | Temperature: 125°C±3°C<br>温度: 125°C±3°C<br>Time: 96 Hours<br>时间: 96小时                                                                                                                                                              | MIL-STD-883E Method 1005.8          |
| 3  | Low Temperature Storage (低温储存)                    | Temperature: -55°C±3°C<br>温度: -55°C±3°C<br>Time: 96Hours<br>时间: 96小时                                                                                                                                                               | MIL-STD-883E Method 1013            |
| 4  | Thermal Shock (温度冲击)                              | Temperature1: -55°C±5°C<br>温度1: -55°C±5°C<br>Temperature2: 85°C±5°C<br>温度2: 85°C±5°C<br>Temperature change between T1 and T2 5 min<br>T1和T2温度在5分钟内改变<br>10cycles maintain T1 and T2 for 30 minutes each mone cycle<br>每次循环30分钟共10次 | MIL-STD-202F Method 107 Condition A |
| 5  | RESISTANCE TO SOLDER HEAT (耐焊接热)                  | Solder Temperature: 260°C±5°C<br>焊槽温度: 260°C±5°C<br>Time: 10±1 Seconds<br>时间: 10±1秒                                                                                                                                                | MIL-STD-202F Method 210E            |
| 6  | Solderability(可焊性)                                | The solder pot temperature is 245±5°C, dwell time 5±0.5sec<br>245±5°C焊锡槽浸润5±0.5秒                                                                                                                                                   | J-STD-002B                          |
| 7  | Drop Test (落下试验)                                  | 3 Times Free Fall from 75cm height table to 3cm thickness hard wood board<br>从75cm高度3次跌落到3cm厚硬质木板上                                                                                                                                 | JIS C6701                           |
| 8  | MECHANICAL SHOCK (机械冲击)                           | Half sine wave, 1000 G<br>半正弦波, 加速度1000G<br>3 Times for all 3 directions<br>X、Y、Z 三个相互垂直方向各三次                                                                                                                                      | MIL-STD-202F Method 213B            |
| 9  | Vibration (机械振动)                                  | Frequency Range: 10Hz~55Hz<br>频率范围: 10Hz~55Hz<br>Amplitude: 0.75mm<br>振幅: 0.75mm<br>2 Hours in each direction, total 6 Hours<br>X、Y、Z 三个相互垂直方向各振动2小时                                                                               | MIL-STD-883E Method 2007.3          |
| 10 | Leakage Test (气密性)                                | Take measurements with a helium Leakage detector<br>氦质检漏<br>Leakage Rate ≤ 1×10 <sup>-3</sup> Pa cm <sup>3</sup> /s<br>漏率 ≤ 1×10 <sup>-3</sup> Pa cm <sup>3</sup> /s                                                               | MIL-STD-883E                        |

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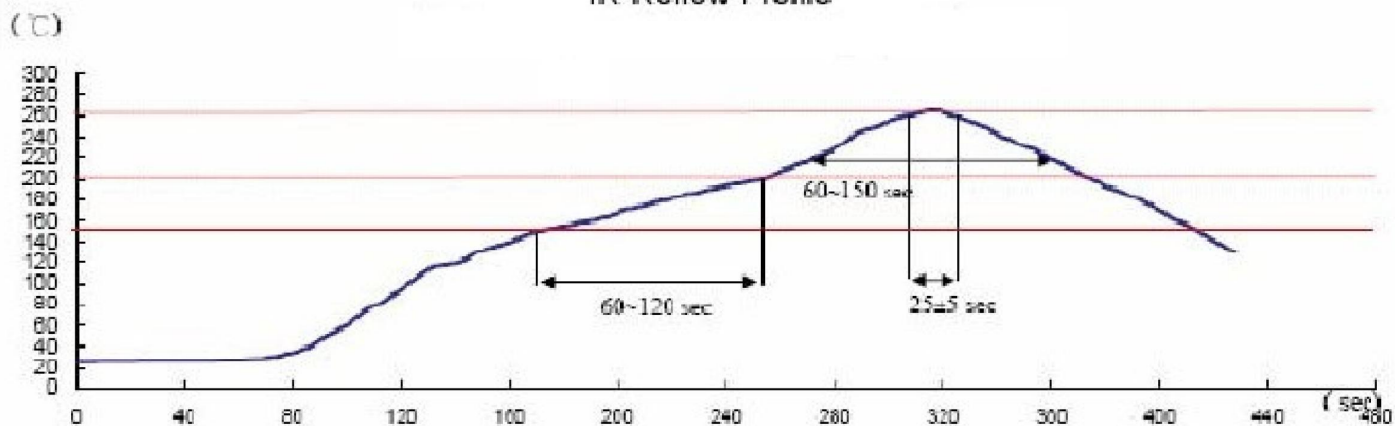
### ● SUGGESTED REFLOW PROFILE (回流焊曲线图)

Total time:200sec.Max. (总时间: 200秒 最大)

Solder melting point:220℃ (熔点220℃)

| Profiles Feature (特性)                         |              | Pb-Free Assembly |
|-----------------------------------------------|--------------|------------------|
| Average Ramp-up Rate(Ts max to Tp)            | 平均升温速度       | 3℃/second Max    |
| Preheat                                       | 预热           |                  |
| ■ Temperature Min (Ts min)                    | 最低温度         | 125℃             |
| ■ Temperature Max (Ts max)                    | 最高温度         | 200℃             |
| ■ Time (ts min to ts max)                     | 从最低到最高时间     | (60~180) seconds |
| Time maintained above                         | 维持上述时间       |                  |
| ■ Temperature(T1)                             | 温度           | 217℃             |
| ■ Time(tp)                                    | 时间           | (60~150) seconds |
| Peak/Classification Temperature(Tp)           | 最高点温度        | 260℃             |
| Time within 5℃ of actual Peak Temperature(tp) | 高温维持时间       | (20~40) seconds  |
| Ramp-down rate                                | 降温速度         | 6℃/second max    |
| Time 25℃ to Peak Temperature                  | 从25℃到最高温度的时间 | 8 minutes max    |
| Suggest reflow times                          | 建议 reflow次数  | 3 Times max      |

IR-Reflow Profile

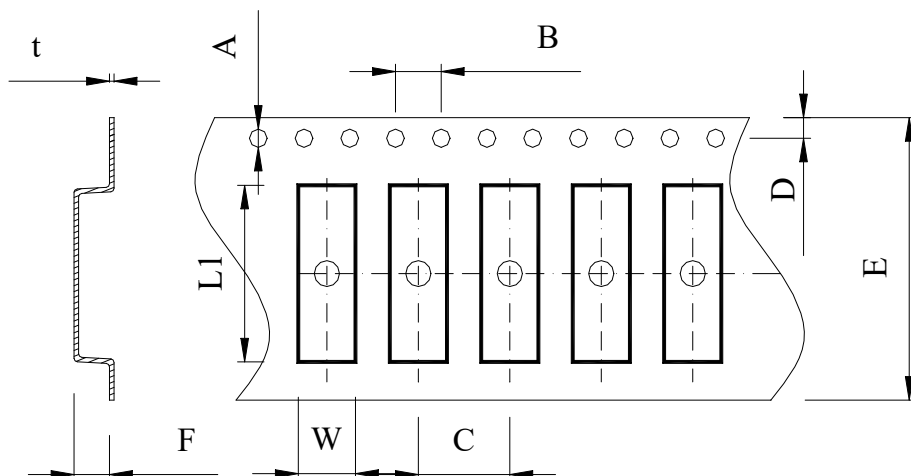


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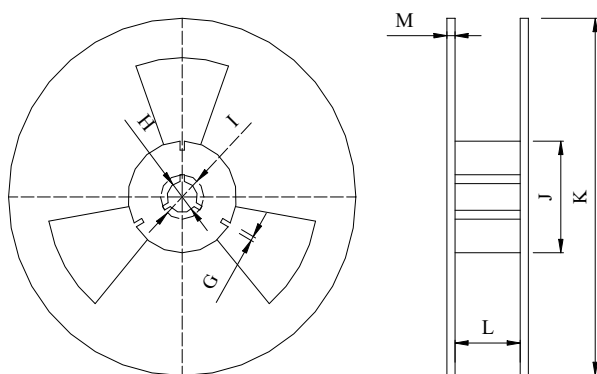
● PACKAGE

*Tape Dimensions(unit : mm)*



|     |     |     |      |     |     |     |     |     |
|-----|-----|-----|------|-----|-----|-----|-----|-----|
| A   | B   | C   | D    | E   | F   | L1  | W   | T   |
| 1.5 | 4.0 | 4.0 | 1.75 | 8.0 | 1.0 | 3.6 | 2.9 | 0.3 |

● *Reel Dimensions (unit: mm)*



|     |      |      |      |       |     |     |
|-----|------|------|------|-------|-----|-----|
| G   | H    | I    | J    | K     | L   | M   |
| 2.5 | 13.5 | 21.6 | 60.0 | 180.0 | 9.5 | 1.6 |

\*3000pcs/Reel

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