

# 承 认 书

## SPECIFICATIONS FOR APPROVAL

客户名称:  
Customer: \_\_\_\_\_

产品名称: 石英晶体谐振器  
Description: CRYSTAL RESONATOR

产品型号: 5032 10M 20PF 10PPM 4P  
SPECIES \_\_\_\_\_

标称频率: 10.000MHz  
FREQUENC \_\_\_\_\_

料 号:  
MATERIAL CODE SST-5032/10.000M20PF10PPM4P

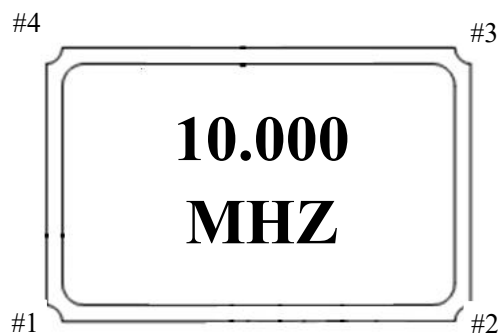
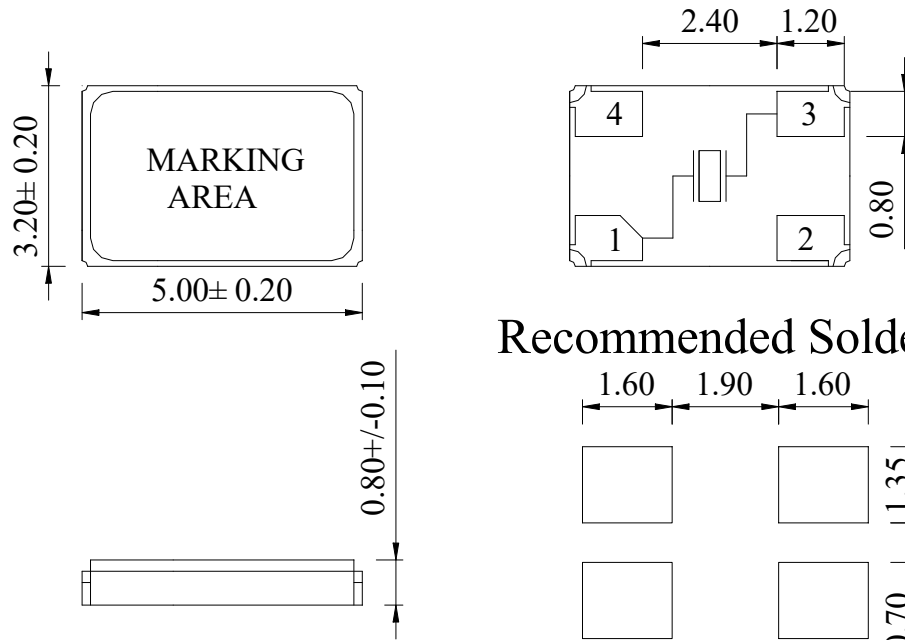
| 供应商确认          |                         |                      |  | 客户确认           |                         |                         |                                     |
|----------------|-------------------------|----------------------|--|----------------|-------------------------|-------------------------|-------------------------------------|
| 品管部<br>QC Dept | 工程部<br>Engineer<br>Dept | 业务部<br>Trade<br>Dept | <input checked="" type="checkbox"/><br>合格 PASS | 品管部<br>QC Dept | 工程部<br>Engineer<br>Dept | 采购部<br>Purchase<br>Dept | <input type="checkbox"/><br>合格 PASS |
| 莫<br>平<br>会    | 梁<br>雄                  | 陈<br>晓<br>群          | <input type="checkbox"/><br>不合格 NG             |                |                         |                         | <input type="checkbox"/><br>不合格 NG  |

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电话: 0830-8172777、0830-8106299 传真: 0830-8106266

**GENERAL SPECIFICATIONS (电气特性) :**

| No. | Parameters                  | Symb.            | Electrical Specification |      |      |       | Notes                                    |
|-----|-----------------------------|------------------|--------------------------|------|------|-------|--|
|     |                             |                  | Min.                     | Typ. | Max. | Units |  |
| 1   | Nominal Frequency           | F0               | 10.000000                |      |      | MHz   |  |
| 2   | Overtone order              |                  | Fundamental              |      |      |       |  |
| 3   | Frequency Tolerance         | $\Delta F/F0$    | -10                      | -    | +10  | ppm   | at 25°C±3°C                              |
| 4   | Operating Temperature Range | T <sub>OPR</sub> | -40                      | -    | +85  | °C    |  |
| 5   | Frequency Stability         | TC               | -30                      | -    | +30  | ppm   | The reference temperature shall be +25°C |
| 6   | Storage Temperature         | T <sub>STG</sub> | -55                      | -    | +150 | °C    |  |
| 7   | Load capacitance            | CL               | -                        | 20   | -    | pF    |  |
| 8   | Equivalent resistance       | ESR              | -                        | -    | 60   | Ω     |  |
| 9   | Level of drive              | DL               | -                        | 100  | 300  | μW    |  |
| 10  | Insulation Resistance       |                  | 500                      | -    | -    | MΩ    | DC100V ±15V.                             |
| 11  | Shunt Capacitance           | C0               | -                        | -    | 7    | pF    |  |
| 12  | Aging Per Year              | Fa               | -3                       | -    | +3   | ppm   | First Year                               |
| 13  | Package type                | 5032 seam 4PAD   |                          |      |      |       |  |

**DIMENSIONS SPECIFICATIONS (外形尺寸)**



Tape Dimensions(unit : mm)



| A    | B   | C   | D   | E    | F   |
|------|-----|-----|-----|------|-----|
| 1.50 | 4.0 | 8.0 | 5.5 | 12.0 | 1.5 |

Reel Dimensions(unit: mm)



| G   | H    | I    | J    | K   | L    | M   |
|-----|------|------|------|-----|------|-----|
| 2.5 | 13.5 | 21.6 | 60.0 | 178 | 13.5 | 1.6 |

\*1000pcs/Reel

| No. | Test Item                               | Test Conditions  | Spec Code |
|-----|---|--|-----------|
| 1   | High Temperature Storage                | Temperature: 125°C ± 5°C<br>Time: 1000 ± 12 Hours  | A         |
| 2   | Temperature Cycle                       | Temperature 1: -55°C ± 5°C<br>Temperature 2: 125°C ± 5°C<br>Temperature change between T1 and T2 at soonest<br>Run 1000 cycles, maintain T1 and T2 30 minutes each in one cycle  | A         |
| 3   | High Temperature, High Humidity Storage | Temperature: 85°C ± 5°C<br>Relative Humidity: 80%--85%<br>Time: 250Hours ± 24 Hours  | A         |
| 4   | Steam Aging                             | Temperature: 97°C ± 5°C; Time: 24 Hours<br>260°C solder pot to check solderability   | A         |
| 5   | Solderability                           | Pre-heat temperature: +150 ± 10°C<br>Pre-heat time: 60~120s<br>When the temperature of the specimen is reached at +215 ± 3°C, it shall be left for 30 ± 1sec.<br>Peak temperature 240 ± 5°C<br>Material: Pb-free (Sn-3.0Ag-0.5Cu)<br>Flux: Rosin resin methyl alcohol solvent (1: 4) | B         |
| 6   | Aging                                   | Temperature: 85°C ± 5°C; Time: 250 ± 12Hours   | A         |
| 7   | Drop Test                               | Preparation: Test pieces should be fixed on the dummy load with 200g weight.<br>Condition: Height 1.5m onto concrete<br>Drop times :10 times in 6 mutually perpendicular axes  | A         |
| 8   | Vibration                               | Frequency Range: 10Hz~2000Hz<br>Amplitude: 1.5mm or 20G<br>4Hours in each direction, total 12Hours   | A         |
| 9   | Reflow resistance                       | Pre-heat temperature : +150~180°C<br>Pre-heat time: 90±30s<br>Heat temperature : more than +230°C<br>Heat time: 30s ±10s<br>Peak temperature : +260±5°C<br>Peak time: less than 10s  | A         |

| Specification code | Specification   |
|--------------------|---|
| A                  | $\Delta f/f \leq \pm 3 \text{ ppm}$<br>$\Delta CI/CI \leq \pm 15 \% \text{ or } 5 \Omega$ make use larger value |
| B                  | The electrodes should be covered by a new solder at least 90% of immersed area.                                 |

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