



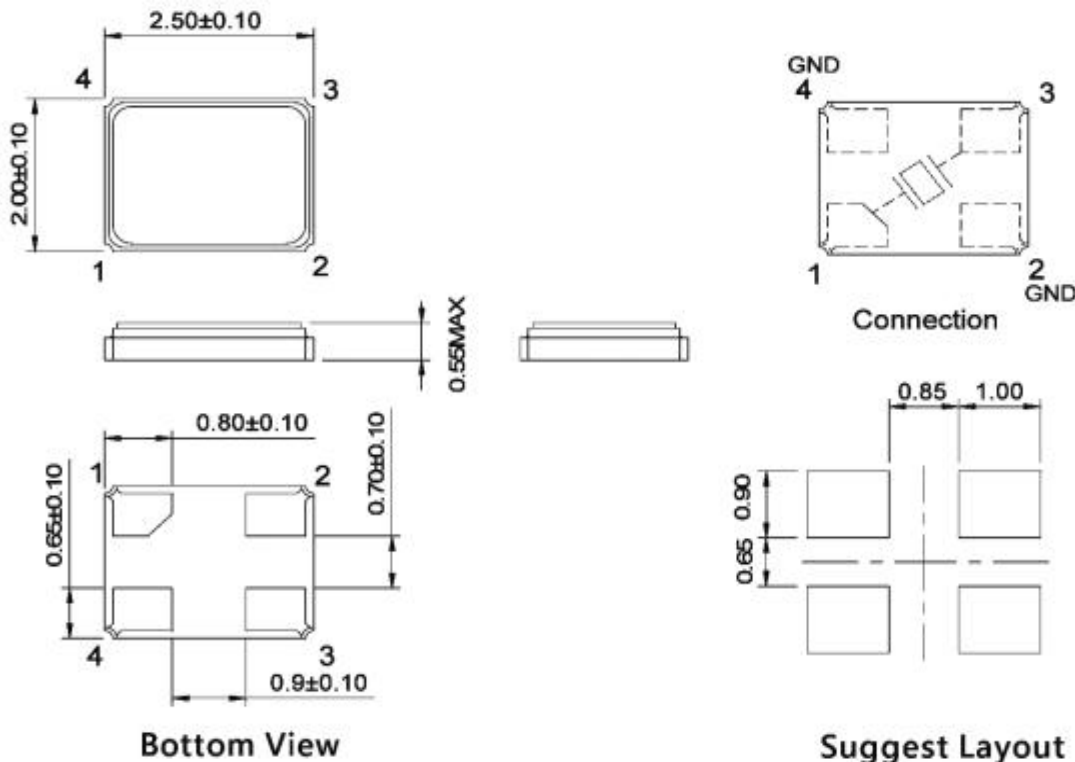
### Features

- High precision and high frequency stability;
- Excellent heat resistance and environmental characteristics;
- Applications in PDA, DSC, DVC, and PC;
- RoHS Compliant / Pb Free

### Crystals specifications

| ITEMS (项目)   | PARAMETER (规格说明)               |          |          |          |
|--|--------------------------------|----------|----------|----------|
| Frequency Range                                      | 12~13MHz                       | 14~24MHz | 24~30MHz | 30~66MHz |
| Equivalent Series Resistance (ESR)                   | 150ΩMax.                       | 100ΩMax. | 80ΩMax.  | 60ΩMax.  |
| Frequency Tolerance (at 25 °C)                       | ± 10 ppm, ± 30 ppm, or specify |          |          |          |
| Frequency Stability Over Operating Temperature Range | ± 10 ppm, ± 30 ppm, or specify |          |          |          |
| Operating Temperature Range                          | -10 ~ +70 °C, or specify       |          |          |          |
| Shunt Capacitance (C0)                               | 3 pF Max.                      |          |          |          |
| Drive Level  | 10 μW (100 μW Max.)            |          |          |          |
| Load Capacitance                                     | 8 pF, 10 pF, 12 pF, or specify |          |          |          |
| Aging (at 25 °C)                                     | ± 3 ppm / year Max.            |          |          |          |
| Storage Temperature Range                            | - 40 ~ + 85 °C                 |          |          |          |
| Packing Unit(包装单位)                                   | 3,000pcs/Reel                  |          |          |          |

### Dimensions



Units: mm

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