



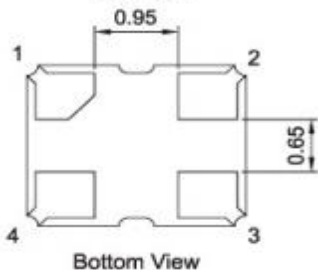
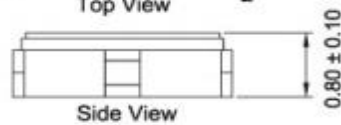
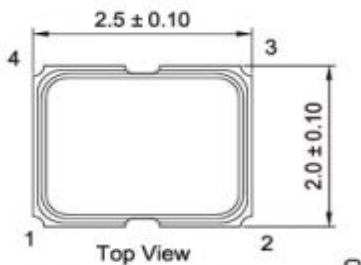
### Features

- Extremely small SMD seam sealed clock oscillator unit;
- Tri-State function available;
- Low current consumption;
- Small supply voltage shift;
- Main application :Application for smart phone, sip module, variety of compact portable consumer products;
- RoHS Compliant / Pb Free.

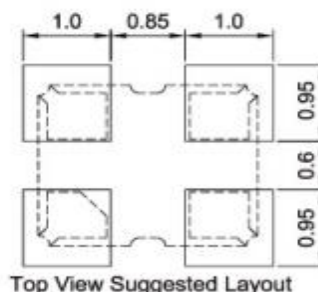
### Crystals specifications

| ITEMS (项目)                              |                      | PARAMETER (规格说明) 022           |
|---|----------------------|--------------------------------|
| Output Type(输出模式)                       |                      | CMOS                           |
| Output Load(输出负载条件)                     |                      | 15 pF , or specify             |
| Oscillation Mode(振荡模式)                  |                      | Fundamental                    |
| Supply Voltage(电源电压)                    |                      | 1.8±10%V ; 2.5±10%V ; 3.3±10%V |
| Frequency Range(输出频率范围)                 |                      | 4 ~ 54MHz                      |
| Frequency Stability                     |                      | ± 25 ppm , ± 50 ppm            |
| Operating Temperature Range(工作温度)       |                      | - 10 ~ + 70 ℃ , - 40 ~ + 85 ℃  |
| Storage Temperature Range(储存温度)         |                      | - 55 ~ + 125 ℃                 |
| Oscillating voltage(振荡电压)               | Voltage Vol ( Max. ) | 10 % VCC Max.                  |
|   | Voltage Voh ( Min. ) | 90 % VCC Min                   |
| Rise ( Tr ) / Fall ( Tf ) Time: 上升/下降时间 |                      | 5 ns Max.                      |
| Current Consumption ( 功耗 )              |                      | 5 mA Max.                      |
| Symmetry(占空比)                           |                      | 40 ~ 60 %                      |
| Start-up Time(振荡启动时间)                   |                      | 5 ms Max.                      |
| Phase Jitter ( 12 KHz ~ 20 MHz )        |                      | 1 ps Max.                      |
| Aging ( at 25 ℃ )频率老化                   |                      | ± 3 ppm / year Max.            |
| Packing Unit(包装单位)                      |                      | 3, 000pcs/Reel                 |

### Dimensions



**PAD FUNCTION:**  
 1: ENABLE CONTROL  
 2: GND  
 3: OUT  
 4: VDD



Units: mm