



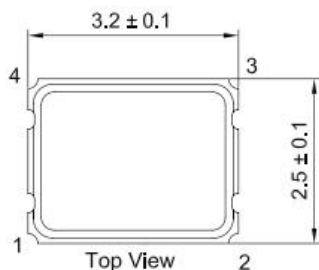
### Features

- Mainstream miniature oscillator package;
- Supply voltage range : 1.8 V ~ 3.3 V;
- Tri-State function available;
- High stability, low jitter, low power consumption;
- Main application :Optimal solution for home security devices, power saving application, and low frequency specification circuit design looking for a smaller package;
- RoHS Compliant / Pb Free.

### Crystals specifications

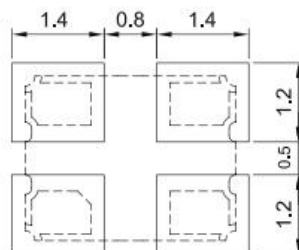
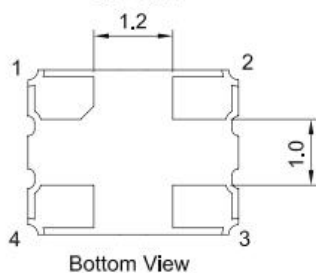
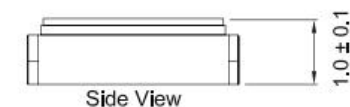
| ITEMS (项目)                              |                      | PARAMETER (规格说明) 032          |                   |
|-----------------------------------------|----------------------|-------------------------------|-------------------|
| Output Type(输出模式)                       |                      | CMOS                          |                   |
| Output Load(输出负载条件)                     |                      | 15 pF , or specify            |                   |
| Oscillation Mode(振荡模式)                  |                      | Fundamental / 3rd Overtone    |                   |
| Supply Voltage(电源电压)                    |                      | 1.8 V                         | 2.5 V, 2.8V 3.3 V |
| Frequency Range(输出频率范围)                 |                      | 1 ~ 160 MHz                   |                   |
| Frequency Stability                     |                      | $\pm 25$ ppm, $\pm 50$ 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 |                      | 8 ns Max.                     |                   |
| Current Consumption ( 功耗 )              |                      | 15 mA Max.                    |                   |
| Symmetry(占空比)                           |                      | 40 ~ 60 %                     |                   |
| Start-up Time(振荡启动时间)                   |                      | 3 ms Max.                     |                   |
| Phase Jitter ( 12 KHz ~ 20 MHz )        |                      | 1 ps Max.                     |                   |
| Aging ( at 25 ℃ )频率老化                   |                      | $\pm 3$ 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

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