



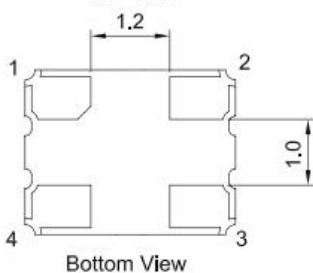
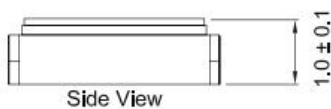
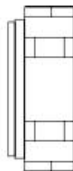
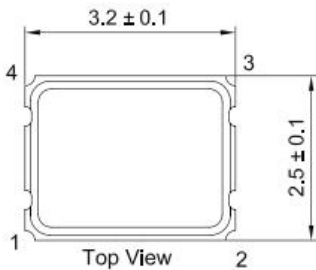
### Features

- 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

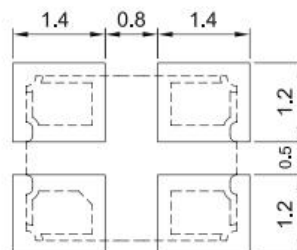
ITEMS (项目)		PARAMETER (规格说明) 032	
Output Type(输出模式)		CMOS	
Output Load(输出负载条件)		15 pF , or specify	
Oscillation Mode(振荡模式)		Fundamental / 3rd Overtone	
Supply Voltage(电源电压)		1.8 V	2.5 V, 2.8V 3.3 V
Frequency Range(输出频率范围)		1 ~ 160 MHz	
Frequency Stability		± 25 ppm , ± 50 ppm	
Operating Temperature Range(工作温度)		- 10 ~ + 70 °C , - 40 ~ + 85 °C	
Storage Temperature Range(储存温度)		- 55 ~ + 125 °C	
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 °C )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



Top View Suggested Layout

Units: mm