

# Programmable Crystal Oscillator



## VSO600PP

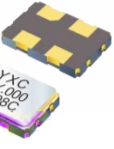


### Applications

- Consumer
- Industrial

### Features

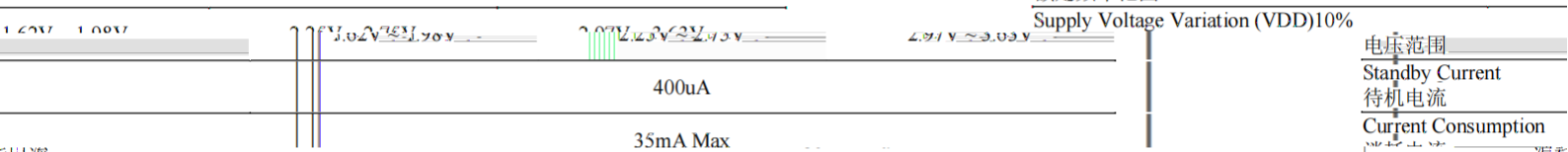
- Fast Delivery
- PLL Circuit Provides Wide Frequency Range Application (1 ~ 200MHz)
- Low Jitter Design with New Developed IC
- Package Size: 2.0\*1.6, 2.5\*2.0, 3.2\*2.5, 5.0\*3.2, 7.0\*5.0mm



### Specifications (规格参数)

CMOS		
1.5 V	2.5 V	3.3 V
125MHz	1MHz ~ 200MHz	1MHz ~ 200MHz

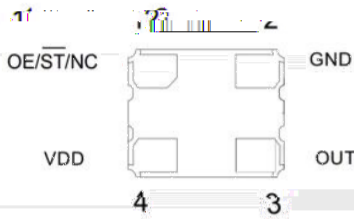
Item / Type	
Supply Voltage 电源电压	1.8
Frequency Range 额定频率范围	1MHz ~



Frequency Tolerance 频率偏差	±30ppm, ±50ppm or specify	电压范围	
Output Load 输出负载	15pF	Standby Current 待机电流	
Operating Temperature Range 工作温度	-40~+85°C, or specify	Current Consumption 消耗电流	
Storage Temperature Range 存储温度	-55~+150°C		
Output Voltage V <sub>OH</sub> (Min.) / V <sub>OL</sub> (Max.) 输出电压	V <sub>OH</sub> = 90%V <sub>DD</sub> / V <sub>OL</sub> = 10%V <sub>DD</sub>		
Duty Cycle 占空比	45~55%		
Rise/Fall Time 上升沿/下降沿	5ns Max		
Start-up Time 启动时间	7ms Max		
Phase Jitter [12 kHz ~ 20 MHz] (相位抖动)	1.5ps typ		
Supply Current 消耗电流	See Below		
Frequency Aging (at 25°C) 老化率	±3 ppm / year Max		

### Pin Dimension (脚位尺寸)

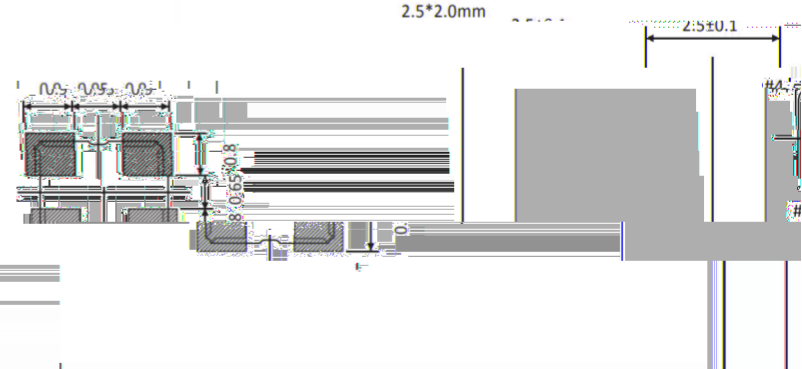
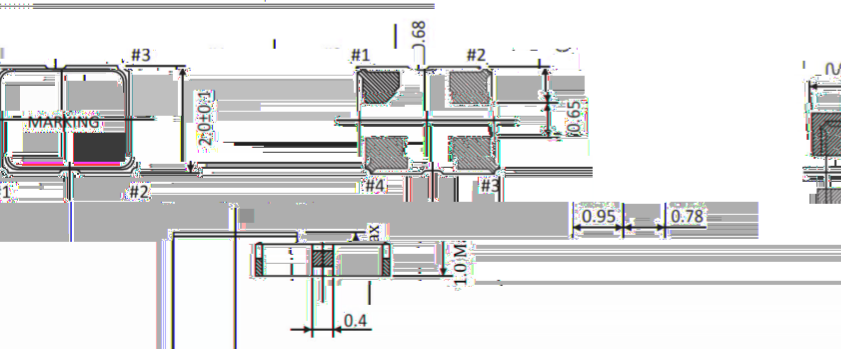
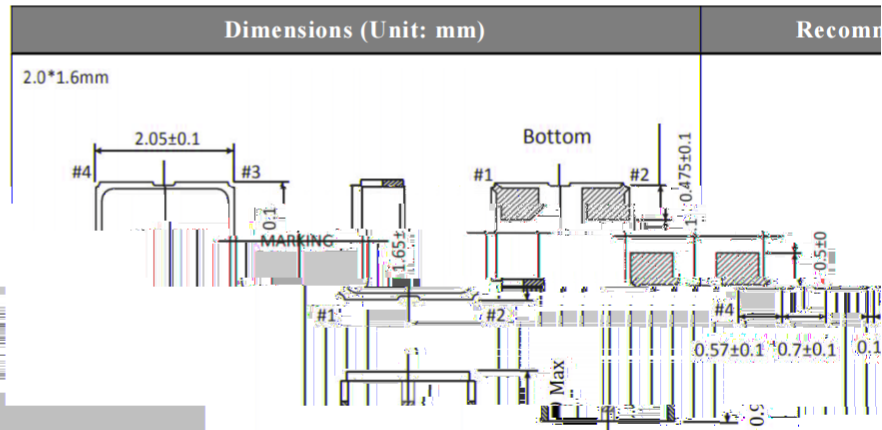
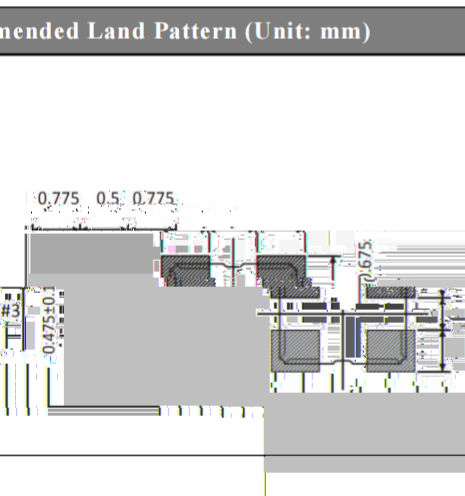
#### Pin Assignments



Pin	Symbol	Functionality
1	OE/ST/NC	Output Enable H: specified frequency output L: output is low. Specified frequency output stop. H: specified frequency output L: output is low. Specified frequency output stop. current reduces to 400uA(Standby Current).
2	GND	Power Electrical ground.
3	OUT	Output Oscillator output.
4	VDD	Power Power supply voltage.

#### 及推荐焊盘

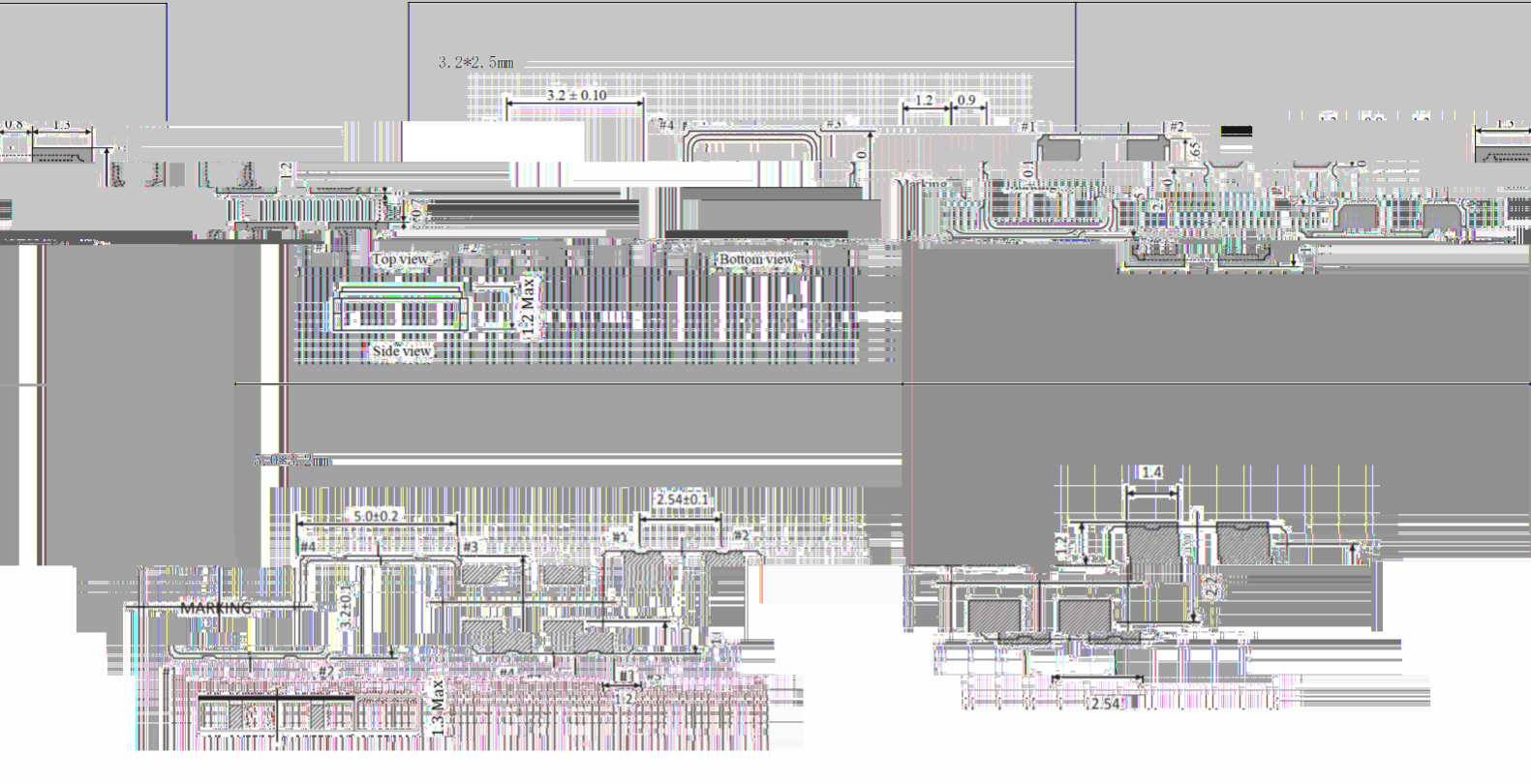
#### Dimensions and Recommended Land Pattern (外形尺寸及推荐焊盘)



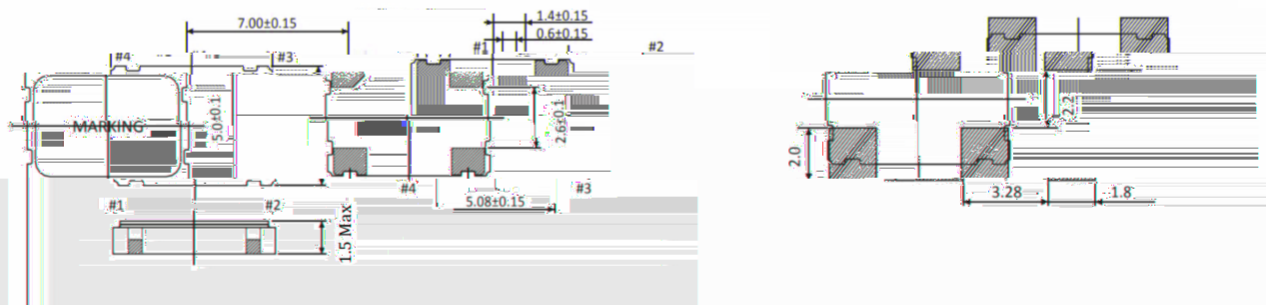
# Programmable Crystal Oscillator



## VSO600P



7.0\*5.0mm



### Test Circuit (测试电路)

CMOS

Power Supply

0.1 $\mu$ F

10k $\Omega$

15pF  
(including probe)

Capacitor (C2)

Vdd

Vout

Test

Vdd  
OE/ST Function 1k $\Omega$