

# PROGRAMMABLE CRYSTAL OSCILLATOR



## YSO171PS Spread Spectrum



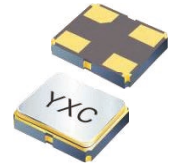
### Applications

- Computers or Servers
- Controller or PLC
- Communication

### Features

- 2 Kinds of Spread Type
- Multiple Spread Width Options
- EMI Reduction

- Package Size: 2.5\*2.0, 3.2\*2.5, 5.0\*3.2, 7.0\*5.0mm
- Standard Frequency: 1 ~ 200MHz



### Specifications (规格参数)

Item	Specifications			
	2.5*2.0	3.2*2.5	5.0*3.2	7.0*5.0
Nominal Frequency Range (额定频率范围)	1MHz ~ 200MHz			
Supply Voltage Variation (VDD)10% (电压范围)	1.8V、2.5V、3.3V ±10%			
Frequency Tolerance over Operating Temperature Range (频率频差)	±25ppm, ±50ppm, or specify			
Operating Temperature (工作温度)	-40 ~+ 85°C, or specify			
Storage Temperature (储存温度)	-40 ~+ 125°C			
Output Type (输出方式)	CMOS			
Output Load (输出负载)	15pF			
Rise Time/Fall Time (上升沿/下降沿)	3ns Max (f0>40MHz) 6ns Max (f0≤40MHz)		5ns Max (10% ↔ 90% waveform)	
Duty Cycle (占空比)	45 ~ 55%			
Start-up Time (启动时间)	3.0ms Typ			
Frequency Aging (at 25°C) (老化)	±5 ppm / year Max			
Current Consumption (消耗功率)	3.4 mA Min 8.3 mA Max		20mA Max (3 ~ 100MHZ) 30mA Max (101 ~ 200MHZ)	
Enable Function (使能功能)	70% ( Min.) of VDD to Enable Output			
Disable Function (禁用功能)	30% ( Max.) of VDD to Disable Output			
Spread Type (展频方式)	Center Spread or Down Spread			
Center Spread ( “ C ” )	± 0.125 % ( C0.125 ) to ± 2.0 % ( C2.0 ) in ± 0.125 % steps			
Down Spread ( “ D ” )	- 0.25 % ( D0.25 ) to - 4.0 % ( D4.0 ) in 0.25 % steps			

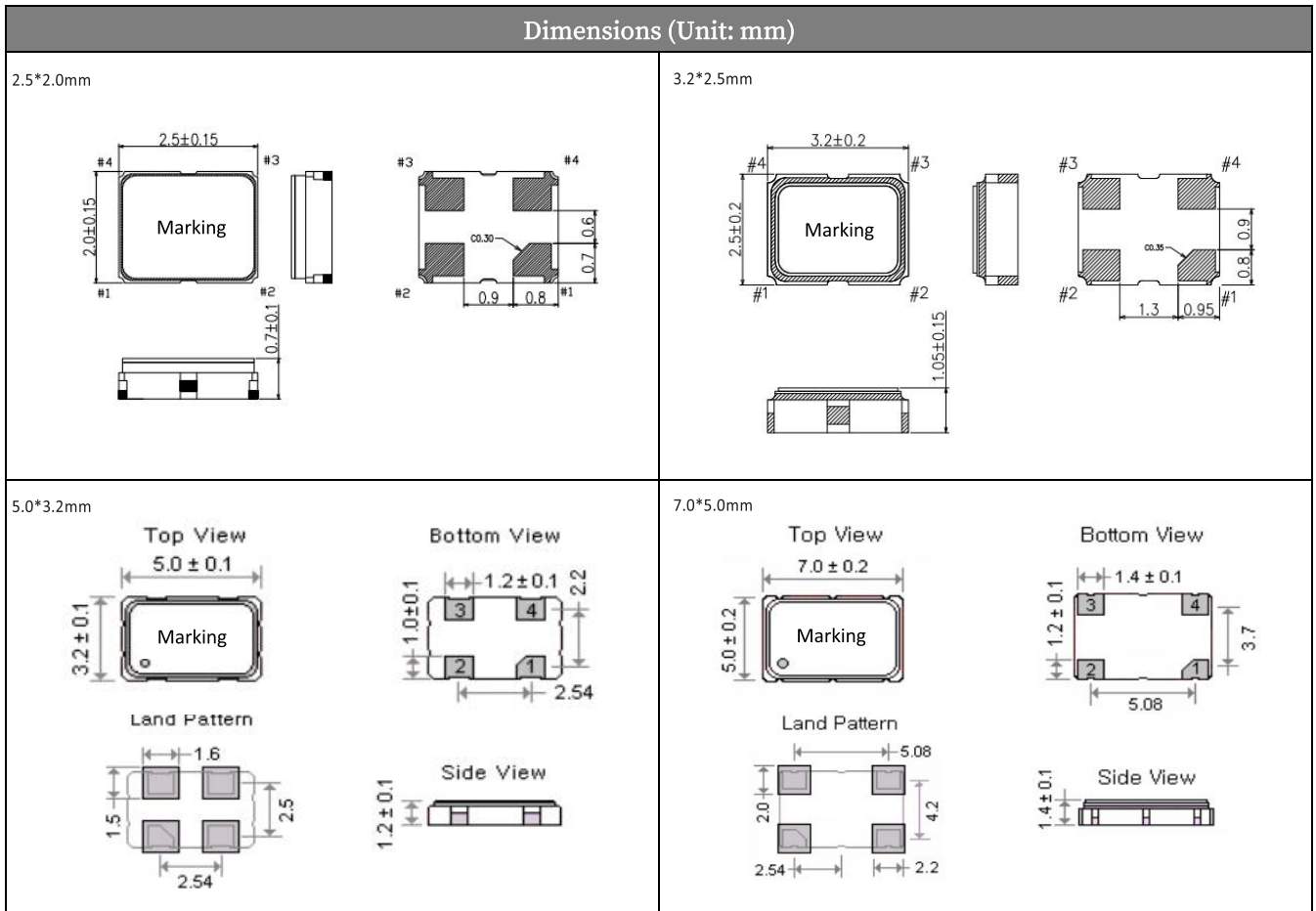
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### Dimensions and Recommended Land Pattern (外观尺寸及推荐焊盘)



Pin	Name	Function	
1	OE	Output enable	High: Specified frequency output from OUT pin
			Low: Out pin is low (weak pull down) , only output driver is disabled
2	GND	Ground	
3	OUT	Clock output	
4	VDD	Power supply	