

Programmable Crystal Oscillator

YSO690PR Low Jitter



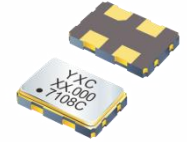
Applications

- Consumer Electronics
- Industrial Control
- IOT

Features

- One time programmable
- 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)

Item / Type	CMOS		
	1.8 V	2.5 V	3.3 V
Parameter	1.8 V	2.5 V	3.3 V
Frequency Range	1MHz to 125MHz	1MHz to 200MHz	1MHz to 200MHz
Supply Voltage Variation (Vdd)10%	1.62V~1.98V	2.25V~2.75V	2.97V~3.63V
Standby Current	400uA		
Frequency Tolerance	±30ppm, ±50ppm or specify		
Output Load	15pF		
Operating Temperature Range	-40~+85°C, or specify		
Storage Temperature Range	-55~+150°C		
Voltage Vol (Max.) / Vol (Min.)	VOH = 90%Vdd/VOL = 10%Vdd		
Duty Cycle	45~55%		
Start-up Time	7ms Max		
Period Jitter (@12K-20Mhz)	1.5ps max.	1.1ps max.	1ps max.
Supply Current	See Below		
Frequency Aging (at 25°C)	±3 ppm / year Max		

Current Consumption (功耗)

Supply Voltage (V)	Power Dissipation				
	1.000~30.000MHz	31.000~75.000MHz	76.000~110.000MHz	111.000~166.000MHz	167.000~200.000MHz
1.8V	18mA max.	19mA max.	20mA max.	20mA max.	20mA max.
2.5V	21mA max.	22mA max.	23mA max.	24mA max.	25mA max.
3.3V	24mA max.	24mA max.	25mA max.	26mA max.	27mA max.

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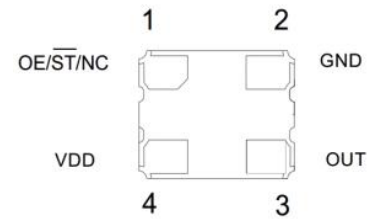
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Pin Dimension (脚位尺寸)

Pin	Symbol	Functionality	
1	OE/ST/NC	Output Enable	H: specified frequency output L: output is low. Specified frequency output stop.
		Standby	H: specified frequency output L: output is low. Device goes to sleep mode. Supply current reduces to 400uA(Standby Current).
		No Connect	Pin 1 = VDD or Pin 1 is Open : Specified frequency output. Pin 1 has no function
2	GNG	Power	Electrical ground
3	OUT	Output	Oscillator output
4	VDD	Power	Power supply voltage

Pin Assignments

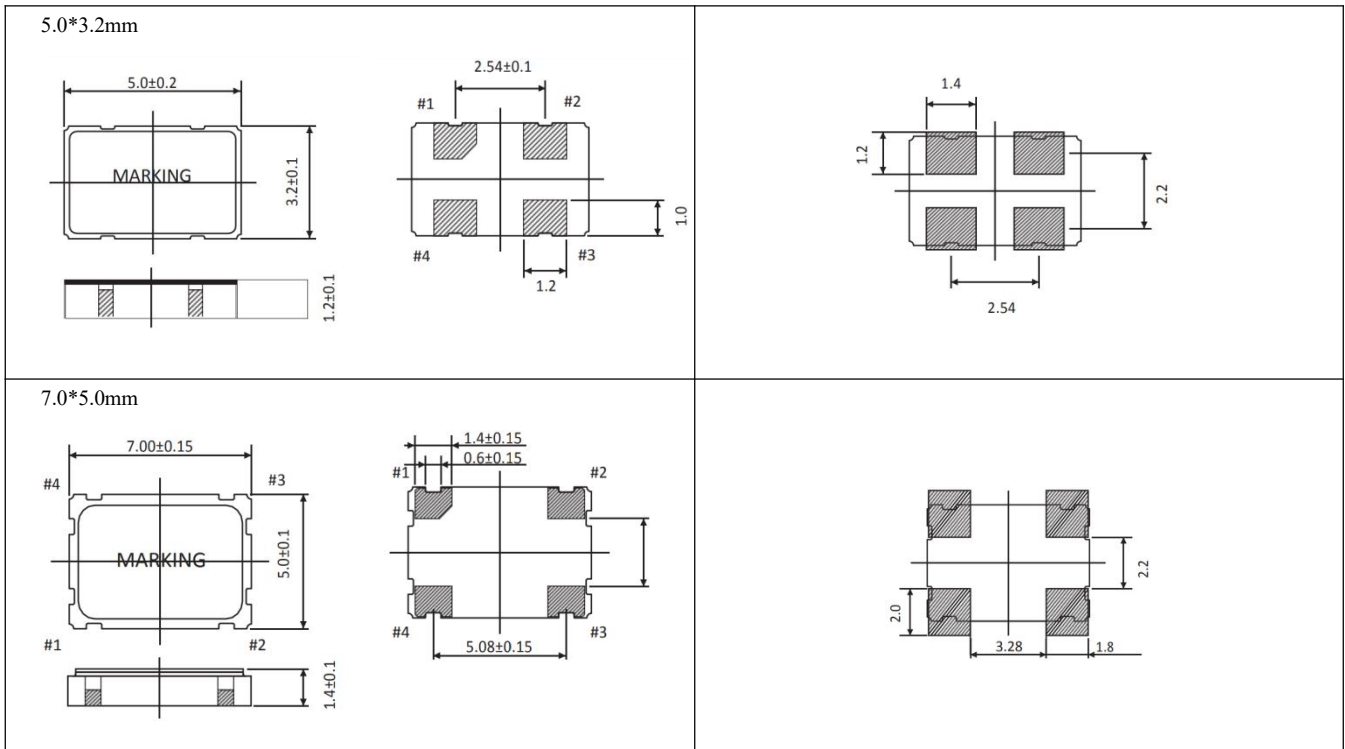


Dimensions and Recommended land pattern (外观尺寸及推荐焊盘)

Package Size – Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
<p>2.0*1.6mm</p>	
<p>3.2*2.5mm</p>	

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Test Circuit (测试电路)

