

Crystal Oscillator

YSO210PR

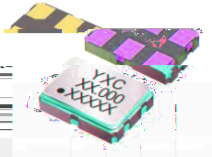


Applications

10-GbE Ethernet
SONET/SDH/SAS
Fibre Channel

Features

- Wide Frequency Range: 10~500MHz
- Package Size: 3.2*2.5, 5.0*3.2, 7.0*5.0mm
- Quartz Crystal
- Output LVPECL or LVDS
- Differential Oscillator



Specifications (规格参数)

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range		10MHz		1500MHz	
Supply Voltage	VDD	2.5V		3.3V	
Output Frequency Range		10MHz		1500MHz	
Frequency Tolerance		-25ppm		+50ppm	%
Frequency Stability		-40		+85	°C
Operating Temperature Range		-55		+150	°C
Storage Temperature Range		-55		+150	°C
Current Consumption	I _{CC}	10mA		50mA	Max
Output Voltage (LVDS)	V _{OL}	0.4V		0.6V	Max
Output Load Condition		50Ω			
Input Voltage	V _{IH}	70%		80%	VDD
Start-up Time	t _{start}		10ms		
Duty Cycle			45%	55%	
RMS Jitter		12kHz		20MHz	
Aging				±3ppm	

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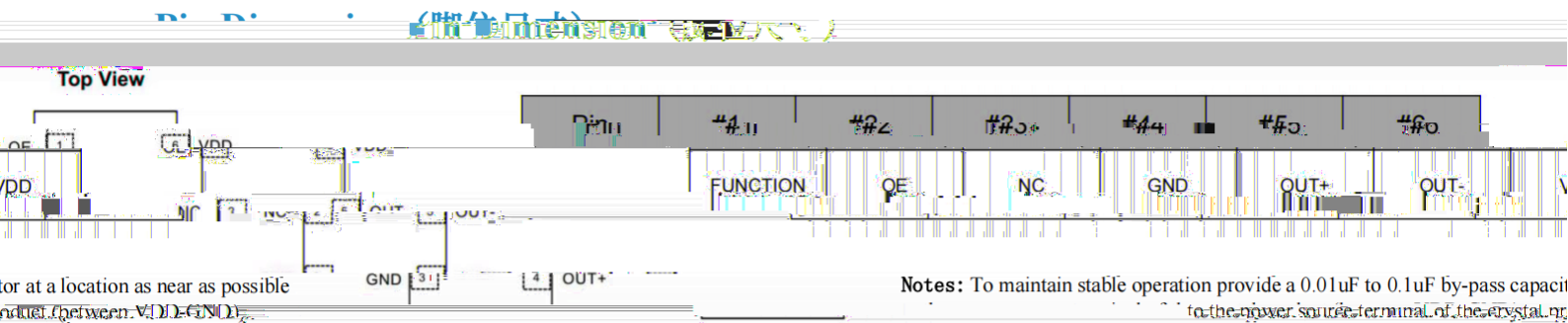
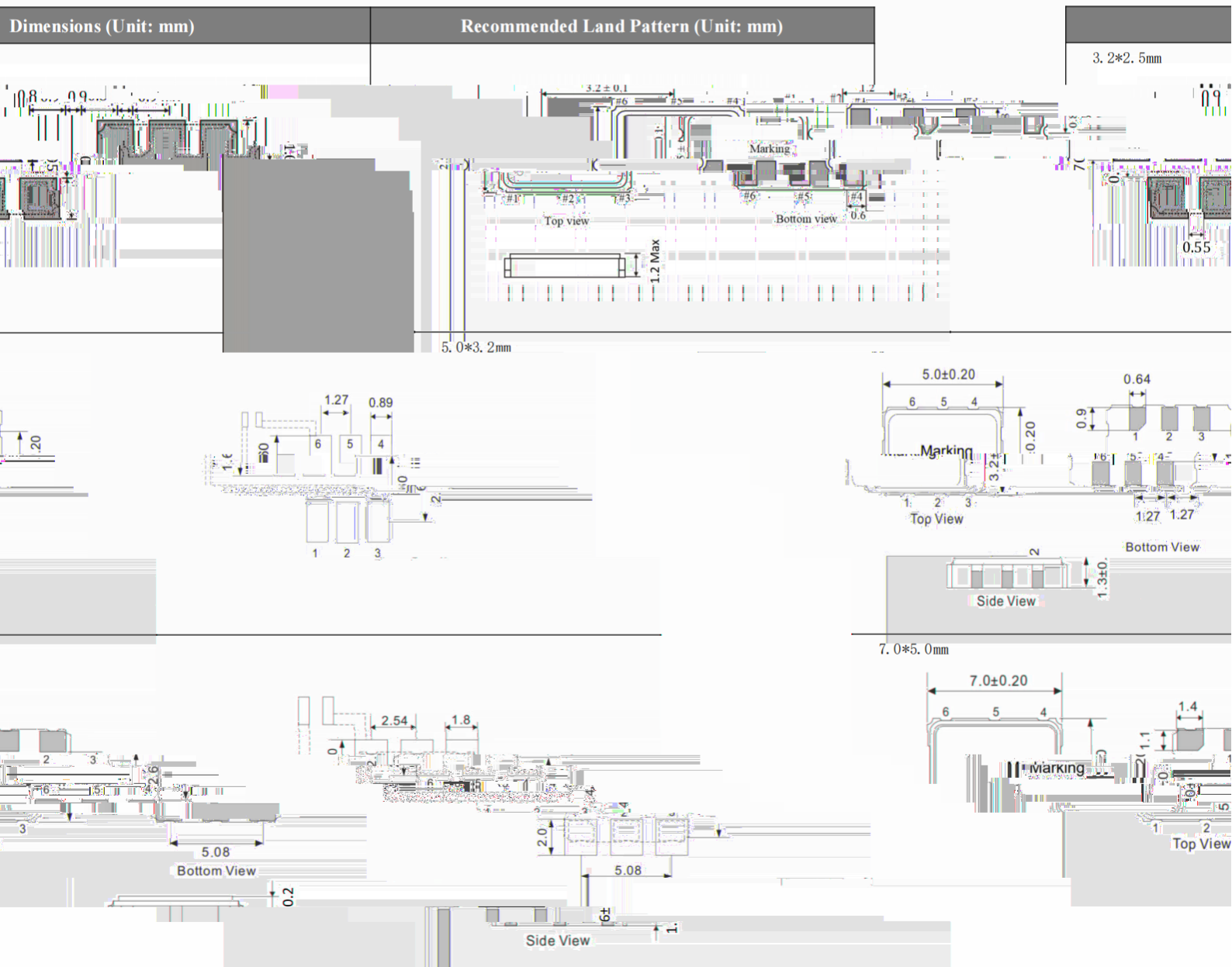


Figure 1 Pin Assignments

Notes: To maintain stable operation provide a 0.01uF to 0.1uF by-pass capacitor to the power source terminal of the crystal oscillator at a location as near as possible to the power source terminal of the crystal oscillator (between VDD-GND).

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

Dimensions and Recommended Land Pattern



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Test Circuit of YSO210PR

