

Crystal Oscillator YSO210PR



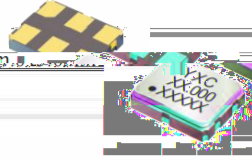
Applications

Features

1.0Gbps Ethernet,
SONET, SATA, SAS,
Fibre Channel

Wide frequency range:
10~1500MHz
Output LVPECL or LVDS

Package Size: 3.2x2.5x0.8mm
Quartz Crystal
Differential Oscillator



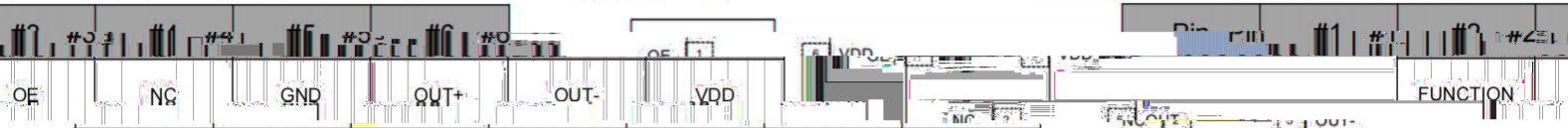
Specifications (规格参数)

Item/Type	LVPECL	LVDS	Remarks
Duty Cycle 占空比		45~55%	
Start-up time 启动时间		10ms	Time at Minimum
RMS jitter 相位抖动	12 kHz~20 MHz	1.0ps Typ	200M
Aging 老化率		±3ppm	25°C First Year
Supply Voltage to be 0s			
Frequency Range			10MHz~1500MHz
Supply Voltage			2.5V, 3.3V
Total Stability			±25ppm, ±50ppm, or specified
Operating Temperature Range			-40~+85°C
Storage Temperature Range			-55~+150°C
Current Consumption			80mA Max
Disable Current			
Output Voltage (LVPECL)			V _{OH} =V _{DD} Min
Output Voltage (LVDS)			V _{OL} =V _{DD} Min
Output Load Condition			
Input Voltage			
LVPECL: Between 20% and 80% of (V _{OH} -V _{OL}), LVDS: Between 20% and 80% of (V _{OH} -V _{OL})			Differential Output peak-to-peak voltage
DC characteristics			
DC characteristics			
Terminated to VDD-2.0V			
Connected between OUT to OUT			
OE terminal			
1ns Max			

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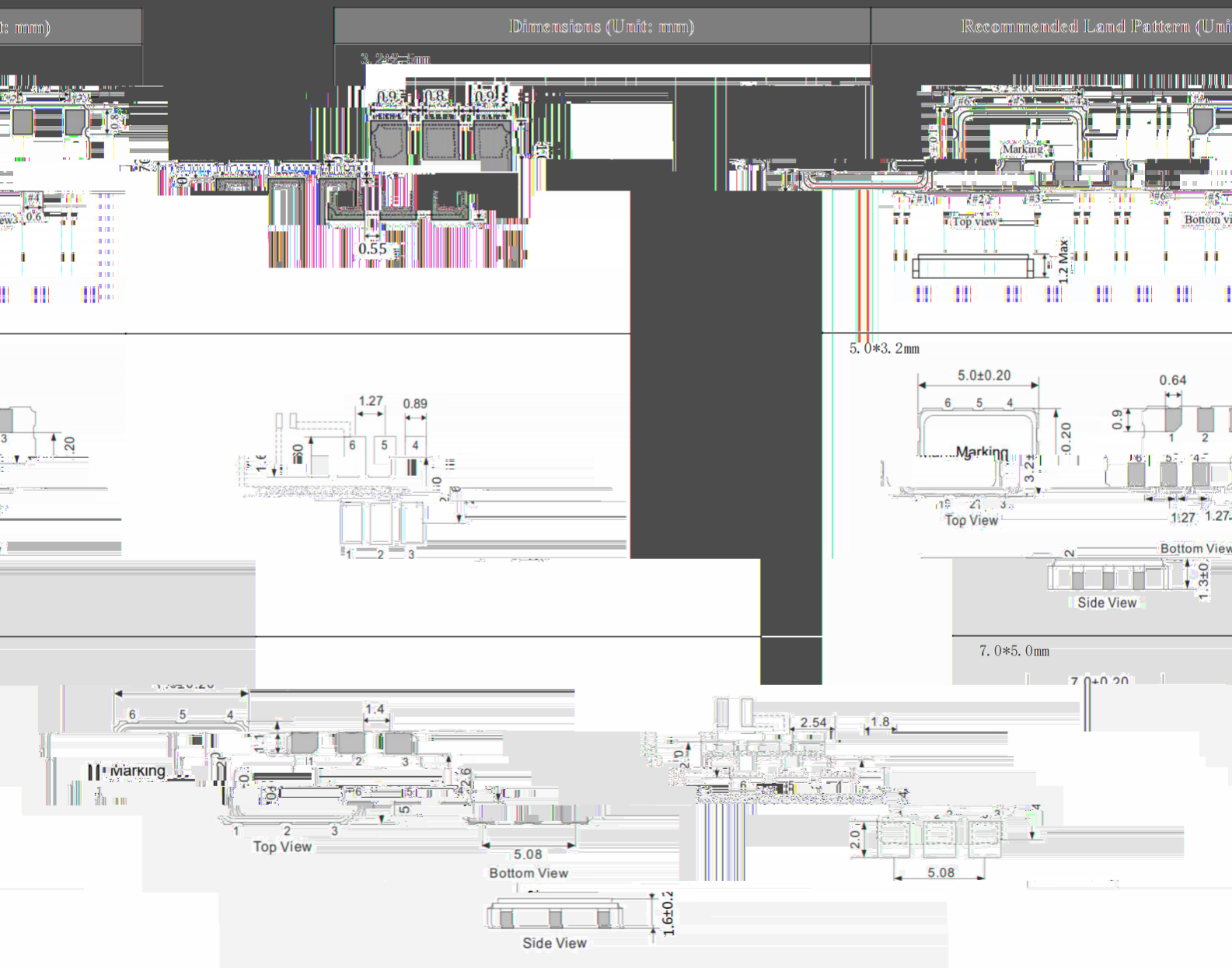
Top View



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

Figure 1. Pin Assignment

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



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Test Circuit (A) (B) (C)

