

# Programmable Crystal Oscillator YSO160PR



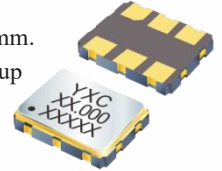
## Applications

- 10 GB Ethernet, SONET, SATA, SAS, Fibre Channel.

## Features

- Freq. Range: 10MHz-250MHz.
- Ultra Small SMD seam sealed crystal oscillator units.

- Package Size: 3.2\*2.5, 5.0\*3.2, 7.0\*5.0mm.
- High precision characteristic covering up to wide frequency range.



## Specifications

Item / Type	SMD VCXO	CMOS
Output Frequency Range		10MHz to 250MHz, or specify
Supply Voltage		2.5V or 3.3V
Total Stability		±30ppm, ±50ppm or specify
Operating Temperature Range		-40~+85°C, or specify
Storage Temperature Range		-55~+125°C
Input Resistance		1Mohms Typ
Current Consumption		40mA Max
Output Load		15pF(max)
Voltage Vol ( Max. ) / Vol ( Min. )		VOH = 90%Vdd/VOL = 10%Vdd
Duty Cycle		45~55%
Input Voltage		VIH=70% Vcc Min, VIL=30% Vdd Max.
Rise Time / Fall Time ( 20% to 80% Waveform )		4.0nsec ( max. )
Start-up Time		10msec. ( max. )
Aging		±3 ppm / year Max.
RMS Jitter [ 12 kHz ~ 20 MHz ]		1.0pS Typ.

## Pin Dimension

Pin	#1	#2	#3	#4	#5	#6
FUNCTION	OE	NC	GND	OUT	NC	VDD

Top View

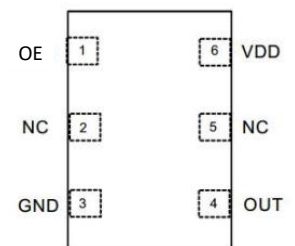


Figure 1. Pin Assignments

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## Dimensions and Recommended land pattern

Package Size – Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
<p><b>3.2*2.5mm</b></p> <p>Top View</p> <p>Bottom View</p> <p>Side View</p>	
<p><b>5.0*3.2mm</b></p> <p>Top View</p> <p>Bottom View</p> <p>Side View</p>	
<p><b>7.0*5.0mm</b></p> <p>Top View</p> <p>Bottom View</p> <p>Side View</p>	

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