

Programmable Crystal Oscillator

YSV310PR VCXO



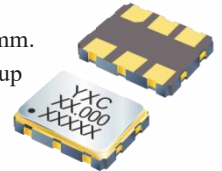
Applications

- 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
Absolute Pull Range		±50ppm Min.
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	Vcon	NC	GND	OUT	NC	VDD

Top View

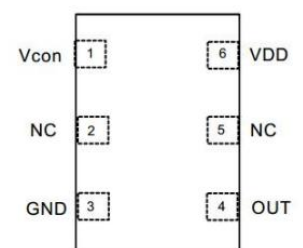


Figure 1. Pin Assignments

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Dimensions and Recommended land pattern

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

Test Circuit

