

Programmable Crystal Oscillator YSV310PR VCXO



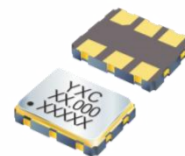
Applications

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

Features

- Freq. Range: 10MHz ~ 250MHz
- Ultra Small SMD Seam Sealed Crystal
Oscillator

- Package Size: 3.2*2.5, 5.0*3.2, 7.0*5.0mm
- High Precision Characteristic
Covering up to Wide Frequency Range



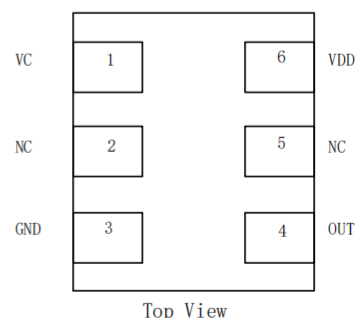
Specifications (规格参数)

Item / Type	CMOS
Output Frequency Range 额定频率范围	10MHz ~ 250MHz, or specify
Supply Voltage 电源电压	2.5V or 3.3V
Control Voltage Center 控制电压	1.25V for VDD=2.5V or 1.65V for VDD=3.3V
Total Stability 频率偏差	±25ppm, ±50ppm, or specify
Absolute Pull Range 牵引频率	±50ppm (min.)
Operating Temperature Range 工作温度	-40 ~ +85°C, or specify
Storage Temperature Range 储存温度	-55 ~ +125°C
Current Consumption 消耗电流	40mA (max.)
Output Load 输出负载	15pF
Voltage Vol (Max.) / Vol (min.) 输出电压	VOH = 90%VDD / VOL = 10%VDD
Duty Cycle 占空比	45~55%
Input Voltage 输入电压	0V-VDD
Rise Time / Fall Time (20% to 80% Waveform) 上升沿/下降沿	4.0nsec (max.)
Start-up Time 启动时间	10msec (max.)
Aging 老化率	±3ppm / year (max.)
RMS Jitter [12 kHz ~ 20 MHz] 相位抖动	1.0pS (typ.)

Pin Dimension (脚位尺寸)

Pin	#1	#2	#3
FUNCTION	Voltage Control	No Connection	Ground
Pin	#4	#5	#6
FUNCTION	Output	No Connection	Supply Voltage

Pin Assignments



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

Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
3.2*2.5mm Top View Bottom View Side View	Recommended soldering Pattern
5.0*3.2mm Top View Bottom View Side View	Recommended soldering Pattern
7.0*5.0mm Top View Bottom View Side View	Recommended soldering Pattern

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Test Circuit (测试电路)

