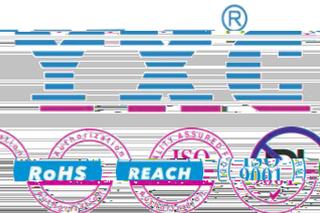


Crystal Oscillator

VSQ131LR Low Voltage



Applications

Features

- IQT
- Frequency Range: 4MHz~50MHz
- Package Size: 2.0*1.6, 2.5*2.0, 3.2*2.5mm
- Industrial Control
- Low-power Applications & Energy Consumption-Sensitive Applications
- Consumer Electronics

Specifications (规格参数)

Symbol	Specifications
f_0	4MHz ~ 50MHz, or specify
VDD	1.2V
-	CMOS
f_{tol}	$\pm 10\text{ppm}$, $\pm 20\text{ppm}$, or specify
L_cmos	15pF

Item
Frequency Range 额定频率范围
Supply Voltage 电源电压
Output Type 输出方式
Frequency Tolerance 频率偏差 (at 25°C)
Output Load 输出负载
Current Consumption 消耗电流

T_{use} -40~+85°C, or specify

Operating Temperature
工作温度

T_{stg} -55~+125°C

Storage Temperature
贮存温度

f_{tem} $\pm 20\text{ppm}$, $\pm 30\text{ppm}$, $\pm 50\text{ppm}$, or specify

Frequency Versus Temperature Characteristics
频率-温度特性

V_{oh}^* 90%VDD Min

Output Voltage

V_{ol} 10%VDD Max

输出电压

SYM 45~55%

Duty Cycle
占空比

t_{str} 3ms Max

Start-up Time
启动时间

tr/tf 8ns Max

Rise Time/Fall Time
上升沿/下降沿

f_{age} $\pm 3\text{ppm/year}$ Max

Frequency Aging
老化(at 25°C)

(Voltage or Floating) 70% of VDD Min

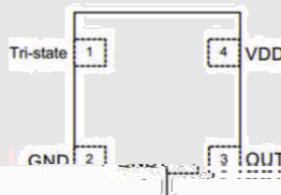
Tri-State Enable (High Voltage)

(Voltage or GND) 30% of VDD Max

Tri-State Disable (Low Voltage)

Pin Assignments

#2	#3	#4
GND	OUTPUT	VDD



Pin	#1
FUNCTION	Tri-state

for PIN function description.

*The picture on the right is only

Crystal Oscillator

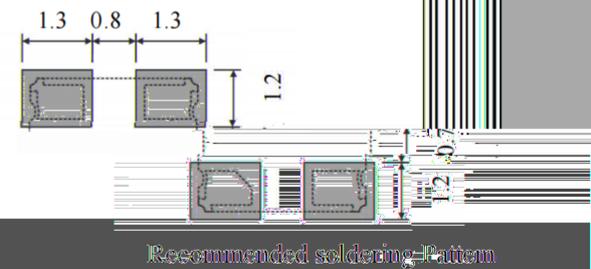
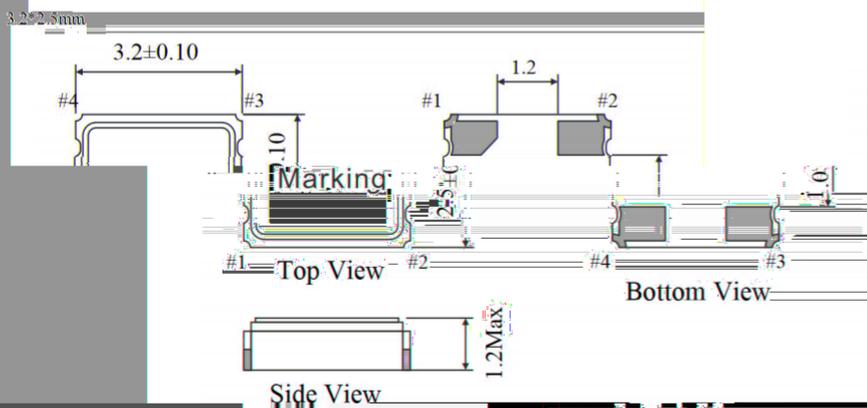
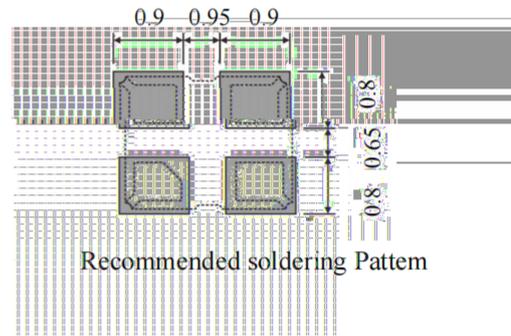
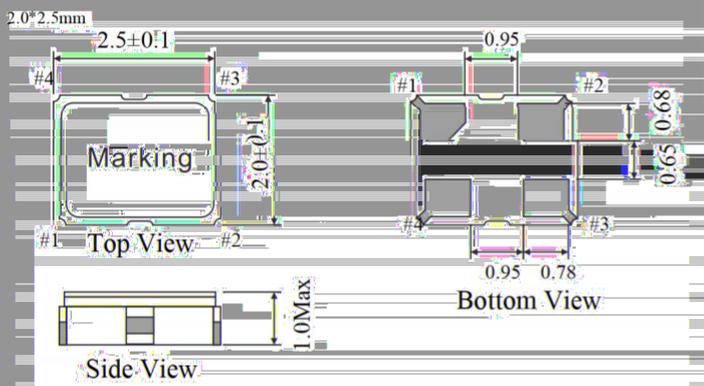
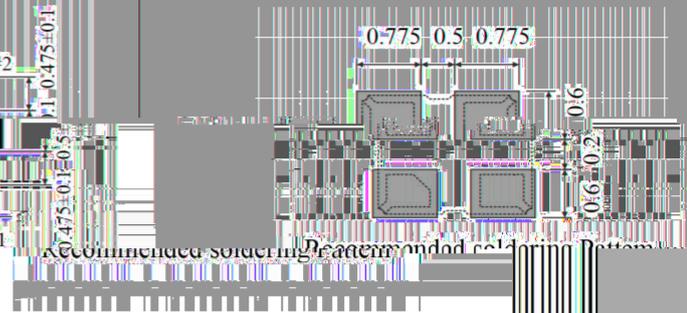
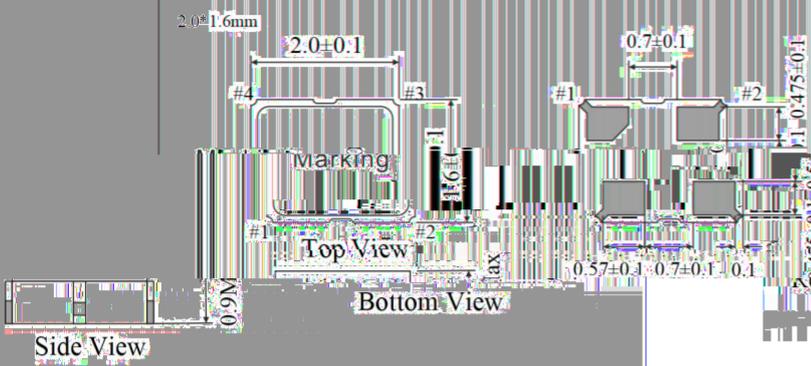
YSO131LR Low Voltage



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

Dimensions (Unit: mm)

Recommended Land Pattern (Unit: mm)



Notes:
1. A separate value of 0.1mm is required between Vdd and GND.