Temperature Compensated Crystal Oscillator

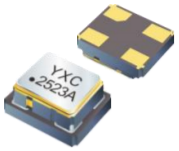
YSO510TP TCXO

Applications

- Networking
- Industrial

Features

- Frequency Stability as Tight as ± 1.0 ppm Over -40°C to 85°C
- Ultra Small SMD Seam Sealed Crystal Oscillator
- Package Size : 2.0*1.6, 2.5*2.0, 3.2*2.5, 5.0*3.2, 7.0*5.0mm



Specifications（规格参数）

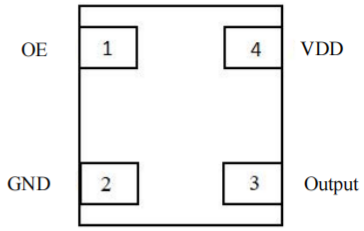
Item/Type			Clipped Sine Wave or CMOS				
Package Size 封装尺寸			2.0 x 1.6	2.5 x 2.0	3.2 x 2.5	5.0 x 3.2	7.0 x 5.0
Frequency Range 额定频率范围			26 ~ 52MHz	13 ~ 52MHz	13 ~ 52MHz	6.4 ~ 52MHz	6.4 ~ 52MHz
Supply Voltage 电源电压			1.8V, 2.5V, 3V, 3.3V				
Operating Temperature Range 工作温度			-30 ~ +85°C, or specify				
Storage Temperature Range 储存温度			-40°C to +85°C				
Output Type 输出方式			Clipped Sine wave or CMOS				
Current Consumption (max.) 消耗电流			Clipped Sine Wave：3.5mA (Max) CMOS：1.8V/2.5V:10mA (Max) ;3V/3.3V:13mA (Max)				
Duty Cycle 占空比			40~60%				
Output Voltage Level (peak to peak) 峰峰值			Clipped Sine Wave：0.8 Vp-p Min. CMOS：VOH = 80%Vdd(Min.)/VOL = 20%Vdd(Max.)				
Start-up Time 启动时间			2.0msec(Typ.), 5.0msec(Max.) @+25±2℃				
Initial Calibration Tolerance 初始校准公差			±2.0 ppm (Max.) at +25°C±2°C (at the shipment)				
Output Load 输出负载			Clipped Sine Wave：10KΩ // 10pF ± 10% CMOS：15pF				
Frequency Stability 频率偏差	vs Aging at Ta = +25°C		± 1.0 ppm / year (Max.)				
	vs Voltage Change		± 0.2 ppm (Max.) , for a ±5% input voltage change				
	vs Load Change		± 0.2 ppm (Max.) , for a ±10% load condition change				
	vs Reflow		± 2.5 ppm (Max.)				
	vs Temperature Change		5ppm / ±2.5ppm				
Phase Noise [dBc / Hz ; (typ.)] 相位噪声	Offset	10 Hz	100 Hz	1 KHz	10 KHz	100 KHz	
	13.0 MHz	-80 (max)	-115	-135	-148	-148(Min)	

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Pin Description-CMOS（脚位说明-CMOS）

Pin	#1	#2	#3	#4
Function	Output Enable	Ground	Output	Supply Voltage

Pin Assignments-CMOS

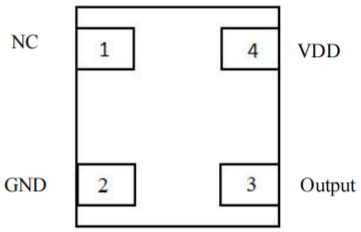


Top View

Pin Description-Clipped sine wave（脚位说明-Clipped sine wave）

Pin	#1	#2	#3	#4
Function	No Connect	Ground	Output	Supply Voltage

Pin Assignments-Clipped sine wave

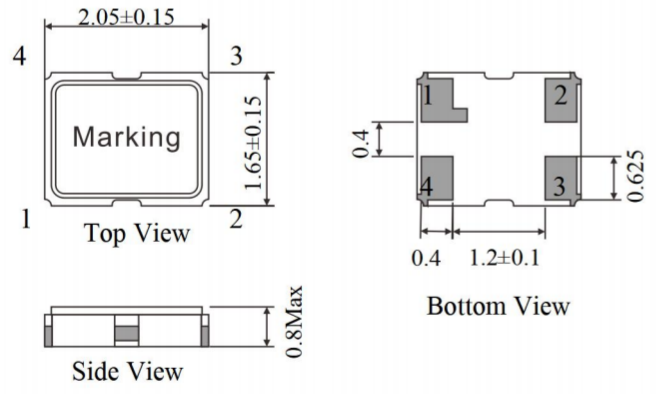


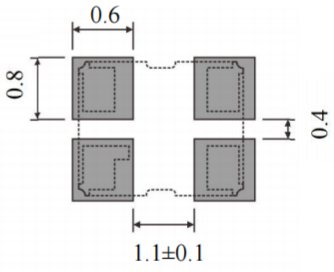
Top View

Notes:
1.Please keep the NC pin floating during use. Do not connect it to any network (power, ground, or signal).
2.The provided pinout is for reference purposes only. The definitive material specification document must be obtained by contacting a sales representative.

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

Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
2.0*1.6mm	



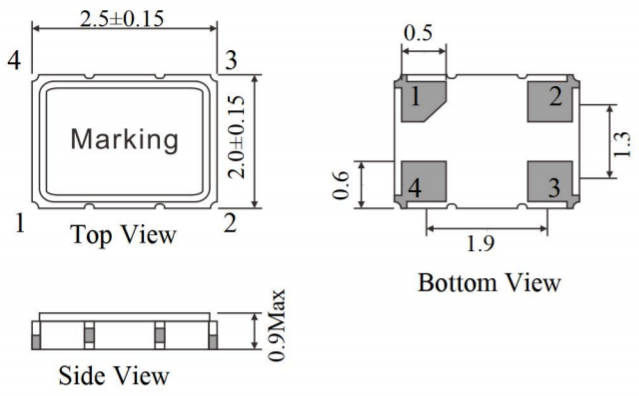


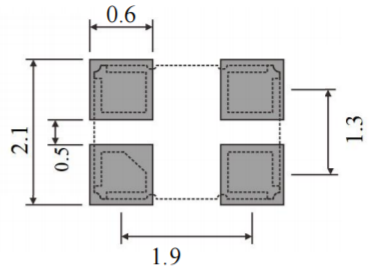
Recommended soldering Pattem

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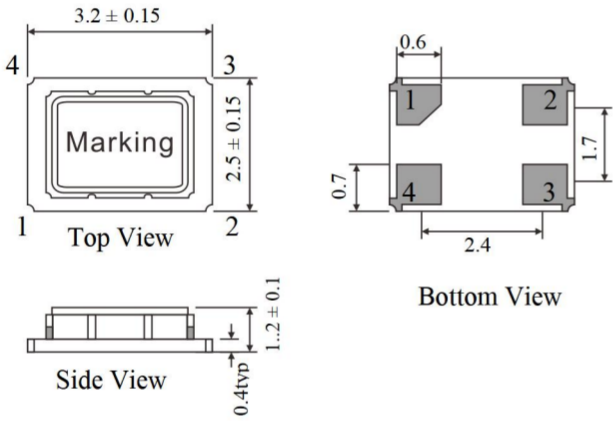
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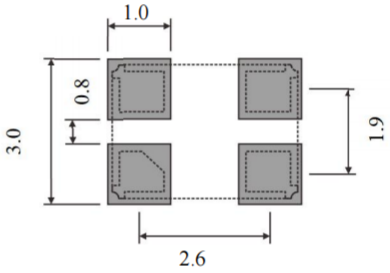
2.5*2.0mm



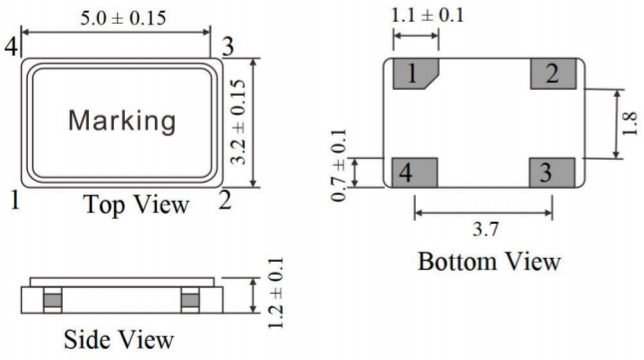


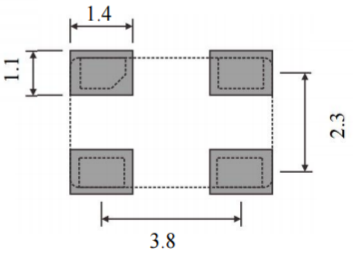
3.2*2.5mm





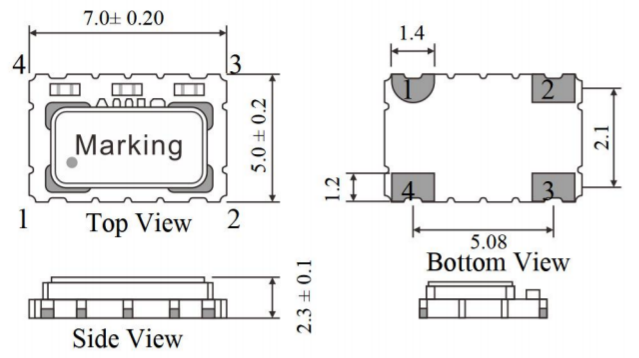
5.0*3.2mm

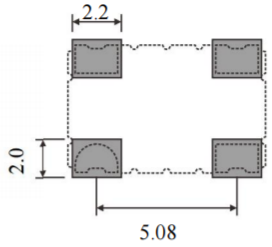




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7.0*5.0mm



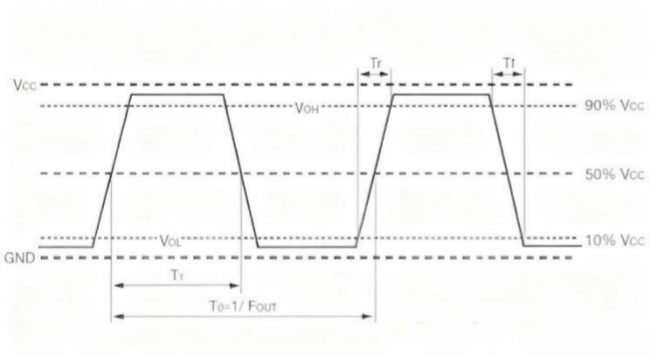


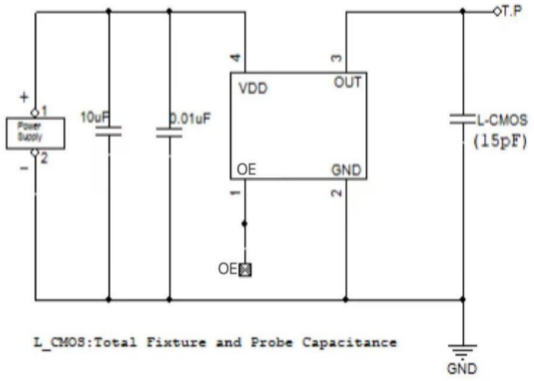
Recommended soldering Pattem

Notes:
1. A capacitor of value 0.01uf~0.1uf or higher between Vdd and GND is required.
2. The dimensions are for reference purposes only. The definitive material specification document must be obtained by contacting a sales representative.

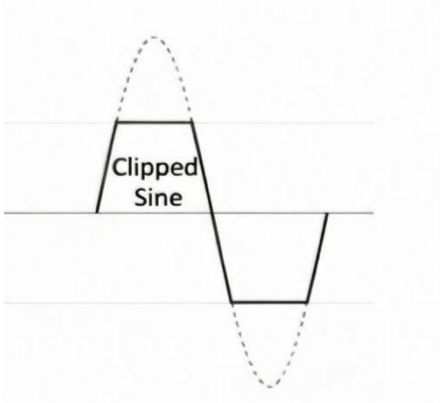
Output Waveform and Test Circuit（输出波形和测试电路）

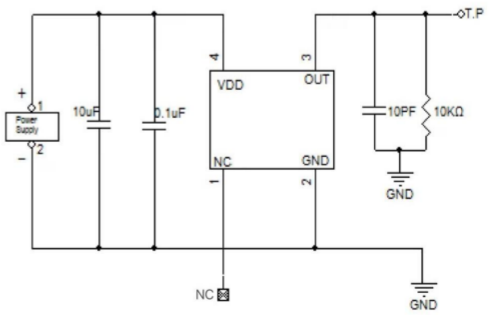
CMOS





Clipped Sine Wave





Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

YXC:

H1OSC-SUG-25M H1OSC-SUG-27.12M X201232768KJD2SI X49SM26MSD2SC XL2OI-111-30M
XL2QI-111-25M OT3JI-111-8M X201632MOB4SI H1OSC-SUG-4.9152M H6OSC-SUG-8M OT8JI-111-40M
XG1SI-111-10M H1OSC-SUG-6M OT3JI-111-26M OT705024MJBA4SL X201632MMB4SI
X49SD73728MSD2SC-1 X503232MSB2GI Y8OGC-STU-32.768K X322526MMB4SI X32252712MSB4SI
H1OSC-SUG-16M H1OSC-SUG-30M OT201612MJBA4SL X49SD12MSD2SI XL2OI-111-32M
OT1JI-111-25M X161032768KGD2SI X201627MOB4SI X3225221184MSB4SI