Crystal Oscillator

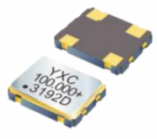
YSO130HR High Voltage

Applications

- Industrial Control

Features

- Frequency Range: 1MHz ~ 100MHz
- Ultra Small SMD Seam Sealed Crystal Oscillator
- Package Size: 3.2*2.5, 5.0*3.2, 7.0*5.0mm



Specifications（规格参数）

Item	Symbol	Specifications
Frequency Range 额定频率范围	f_0	1MHz ~ 100MHz, or specify
Supply Voltage 电源电压	VDD	5V
Output Type 输出方式	-	CMOS
Frequency Tolerance over Operating Temperature Range 频率频差(at 25℃)	f_tol	±10ppm, ±20ppm, or specify
Output Load 输出负载	L_cmos	15pF
Operating Temperature 工作温度	T_use	-40~+85℃, or specify
Storage Temperature 储存温度	T_stg	-55~+125℃
Frequency Versus Temperature Characteristics 频率-温度特性	f_tem	± 20ppm, ± 30ppm, ± 50ppm, or specify
Output Voltage 输出电压	Voh	90%VDD Min
	Vol	10%VDD Max
Duty Cycle 占空比	SYM	45~55%
Start-up Time 启动时间	t_str	3ms Max
Rise Time/Fall Time 上升沿/下降沿	tr/tf	4ns Max
Phase Jitter [12 kHz ~ 20 MHz] 相位抖动	tpj	0.7ps Max
Frequency Aging 老化(at 25℃)	f_age	±3ppm/year Max
Tri-State	Enable（High Voltage or Floating）	70% of VDD Min
	Disable（Low Voltage or GND）	30% of VDD Max

Current Consumption（消耗电流）

Power Dissipation 15pF only	
Frequency	**5V**
1~36MHZ	8mA Max
36~70MHZ	35mA Max
70~100MHZ	55mA Max

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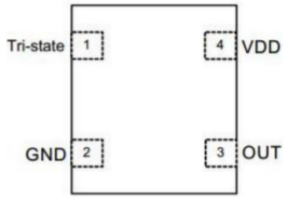
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Pin Dimension（脚位尺寸）

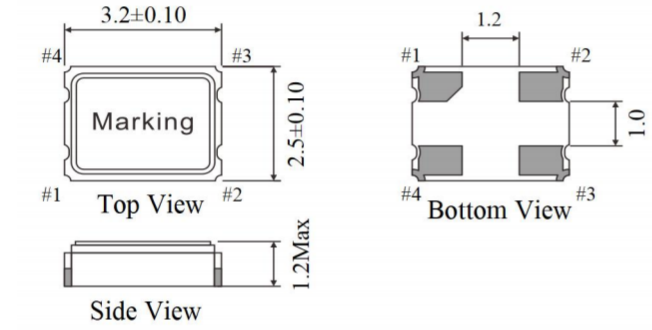
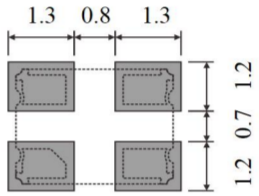
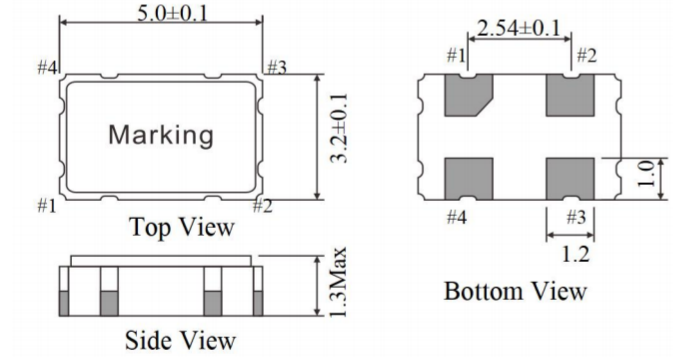
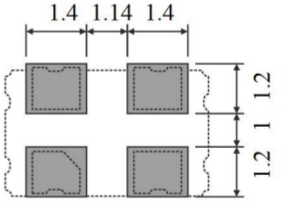
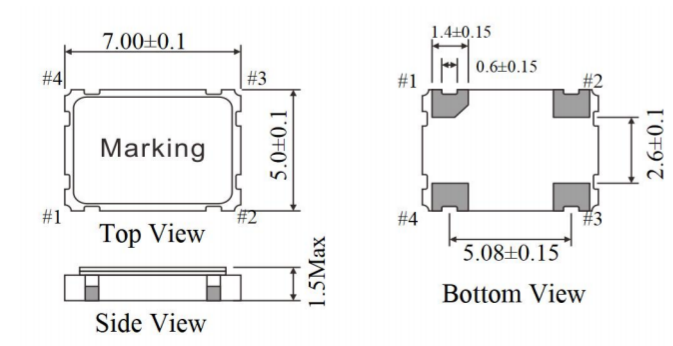
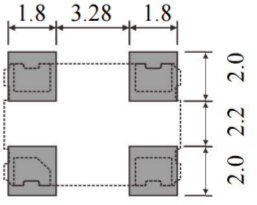
Pin	#1	#2	#3	#4
FUNCTION	Tri-state	GND	OUTPUT	VDD

*The picture on the right is only for PIN function description.

Pin Assignments

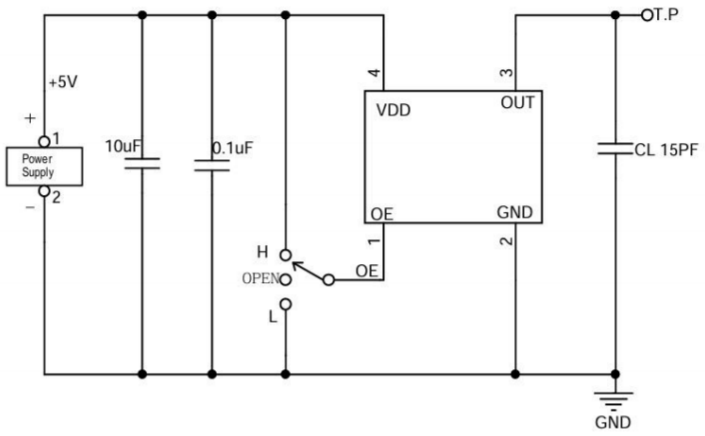


Dimensions and Recommended Land Pattern（外观尺寸及推荐焊盘）

Dimensions(Unit: mm)	Recommended Land Pattern(Unit: mm)
3.2*2.5mm  	 Recommended soldering Pattem
5.0*3.2mm  	 Recommended soldering Pattem
7.0*5.0mm  	 Recommended soldering Pattem

Notes:
1.A capacitor value-0.01uf~0.1uf or higher between Vdd and GND is required.

Test Circuit（测试电路）

CMOS


Unikeyic Electronics

Global Electronic Components Distributor

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

YXC:

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