

Crystal Oscillator

YSO130HR High Voltage

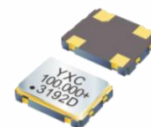


Applications

- Industrial Control

Features

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



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°C)	f_{tol}	$\pm 10\text{ppm}$, $\pm 20\text{ppm}$, or specify
Output Load 输出负载	L_{cmos}	15pF
Operating Temperature 工作温度	T_{use}	-40~+85°C, or specify
Storage Temperature 储存温度	T_{stg}	-55~+125°C
Frequency Versus Temperature Characteristics 频率-温度特性	f_{tem}	$\pm 20\text{ppm}$, $\pm 30\text{ppm}$, $\pm 50\text{ppm}$, 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	t_r/t_f	4ns Max
Phase Jitter [12 kHz ~ 20 MHz] 相位抖动	tpj	0.7ps Max
Frequency Aging 老化(at 25°C)	f_{age}	$\pm 3\text{ppm/year}$ 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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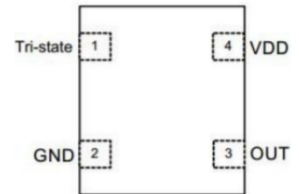


Pin Dimension (脚位尺寸)

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 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

Notes:

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

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Test Circuit (测试电路)

