

Crystal Oscillator



YSO150HT High Temperature



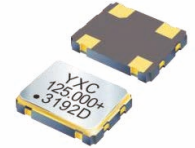
Applications

- Industrial Control
- IOT

Features

- Frequency Range: 1MHz ~ 125MHz
- Ultra Small SMD Seam Sealed Crystal Oscillator

- Package Size: 1.6*1.2, 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 | Symbol | Specifications |
|--|-----------------------------------|------------------------------------|
| Frequency Range (额定频率范围) | f ₀ | 1MHz ~ 125MHz, or specify |
| Supply Voltage (电源电压) | VDD | 1.8V ~ 3.3V |
| Output Type (输出方式) | - | CMOS |
| Frequency Tolerance (频率偏差) (at 25°C) | f _{tol} | ± 15ppm or specify |
| Output Load (输出负载) | L _{cmos} | 15pF |
| Operating Temperature (工作温度) | T _{use} | -40~+105°C, -40~+125°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} | ± 30ppm, ± 50ppm, or specify |
| Output Voltage (输出电压) | V _{oh} | 90%VDD Min |
| | V _{ol} | 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°C) | 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 Vcc=1.8~3.3V 15pF only | | | | | |
|--|-----------------|----------------|---------------------|-----------|-------------------|
| Supply Voltage | 1.000~40.000MHZ | | 41.000~54.000MHZ | | 55.000~100.000MHZ |
| | 7050/5032/3225 | 2520/2016/1612 | 7050/5032/3225/2520 | 2016/1612 | |
| 1.8V | 4mA Max | 4mA Max | 9mA Max | 10mA Max | 35mA Max |
| 2.5V | 4.5mA Max | | 10mA Max | | |
| 3.3V | 5mA Max | | 12mA Max | | |

Please contact us for current consumption for frequencies above 100MHz

Crystal Oscillator

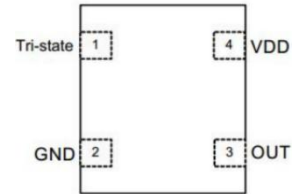
YSO150HT High Temperature



Pin Dimension (脚位尺寸)

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

Pin Assignments



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

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

| Dimensions(Unit: mm) | Recommended Land Pattern(Unit: mm) |
|----------------------|------------------------------------|
| <p>1.6*1.2mm</p> | |
| <p>2.0*1.6mm</p> | |
| <p>2.5*2.0mm</p> | |

Crystal Oscillator



YSO150HT High Temperature



| | |
|--|--|
| <p>3.2*2.5mm</p> <p>Top view</p> <p>Bottom view</p> <p>Side view</p> | |
| <p>5.0*3.2mm</p> <p>Top view</p> <p>Bottom view</p> <p>Side view</p> | |
| <p>7.0*5.0mm</p> <p>Top view</p> <p>Bottom view</p> <p>Side view</p> | |

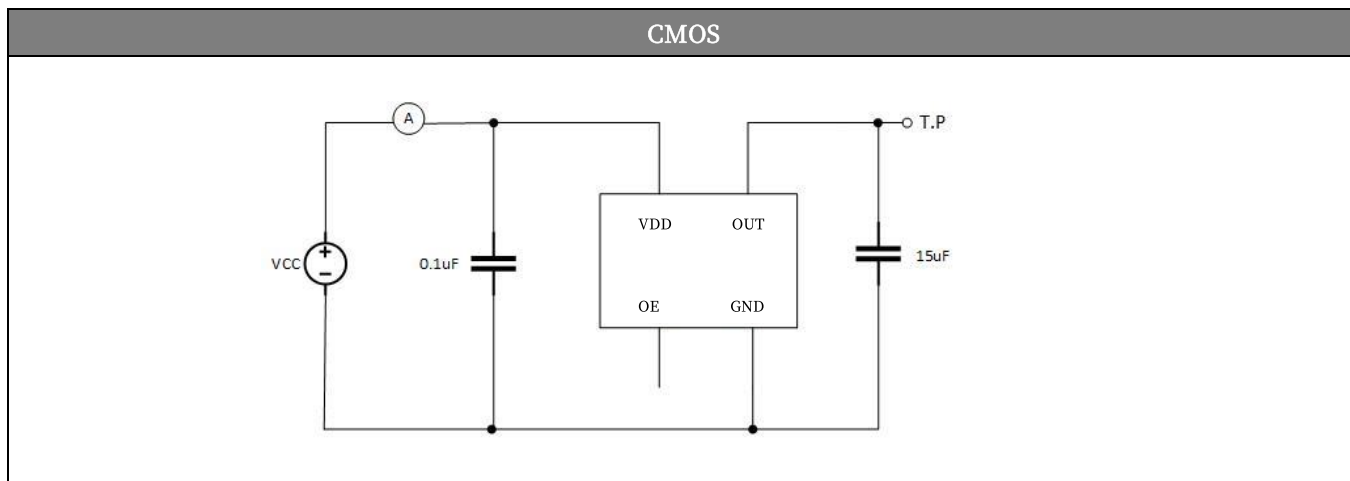
Crystal Oscillator



YSO150HT High Temperature



Test Circuit (测试电路)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Standard Clock Oscillators](#) category:

Click to view products by [Yangxing](#) manufacturer:

Other Similar products are found below :

[601252](#) [F335-25](#) [F535L-33.333](#) [F535L-50](#) [NBXHBA019LN1TAG](#) [SiT1602BI-22-33E-50.000000E](#) [SIT8918AA-11-33S-50.000000G](#)
[SM4420TEV-40.0M-T1K](#) [F335-24](#) [F335-40](#) [F535L-10](#) [F535L-12](#) [F535L-24](#) [F535L-27](#) [PE7744DW-100.0M](#) [ASF1-3.686MHZ-N-K-S](#) [ASV-](#)
[4.000MHZ-LCS-T](#) [XO57CTECNA3M6864](#) [601251](#) [SiT8503AI-18-33E-0.200000X](#) [SIT9122AI2C233E300.000000X](#) [9120AC-2D2-](#)
[33E212.500000](#) [9102AI-243N25E100.000000](#) [8208AC-82-18E-25.000000](#) [8008AI-72-XXE-24.545454E](#) [8004AC-13-33E-133.330000X](#) [AS-](#)
[4.9152-16-SMD-TR](#) [ASFL1-48.000MHZ-LC-T](#) [632L3I004M000000](#) [SIT8920AM-31-33E-25.000000](#) [DSC1028DI2-019.2000](#) [9121AC-2C3-](#)
[25E100.000000](#) [9102AI-233N33E100.000000X](#) [9102AI-233N25E200.000000](#) [9102AI-232H25S125.000000](#) [9102AI-133N25E200.000000](#) [9102AC-](#)
[283N25E200.000000](#) [9001AC-33-33E1-30.000000](#) [8103AC-13-33E-12.000000X](#) [3921AI-2CF-33NZ125.000000](#) [5730-1SF](#) [XUN736000.032768I](#)
[ASV-25.000MHZ-ECS-50-T](#) [EC3925ETTTS-100.000M TR](#) [SIT1602BC-83-33E-10.000000Y](#) [8003AI-12-33S-40.000000Y](#) [1602BI-13-33S-](#)
[19.200000E](#) [8208AI-2F-18E-25.000000X](#) [8103AI-83-33E-33.000000X](#) [8208AI-8F-33E-66.666666X](#)