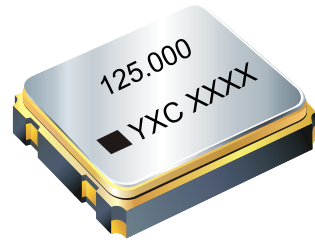


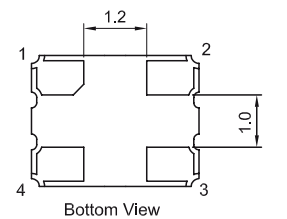
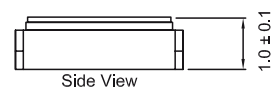
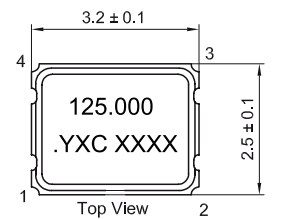
给您一颗快乐的“芯”！ **YSO321SR**

 贴片金属表面振荡器
SMD Metal Surface Oscillator

Features

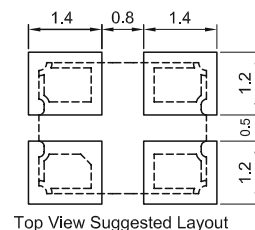
- External dimensions: 3.2 x 2.5 x 1.0 mm.
- Frequency range: 1MHz ~ 150MHz.
- Ultra Small SMD seam sealed clock crystal oscillator units.
- Applications: WLAN, Bluetooth, DSC, DSL and other IT product.
- Tri-state function available

Electrical Specifications

Item / Type	YSO321SR
Output Frequency Range	1 ~ 150 MHz
Output Type	CMOS
Supply Voltage	1.8V/2.5V/3.3V/5V, or specify
Oscillation Mode	Fundamental / 3rd Overtone
Frequency Tolerance	± 20ppm, ± 25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	- 20 ~ + 70 °C, - 40 ~ + 85 °C, or specify
Storage Temperature Range	- 40 ~ + 85 °C, - 55 ~ + 125 °C
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	8 ns Max.
Start-up Time	10 ms Max.
Supply Current	See Below
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

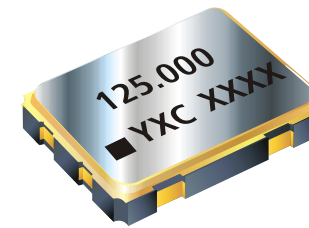
Dimensions


引脚功能定义		
引脚	功能	定义
1	E/D	三态/无三态
2	GND	接地
3	OUTPUT	输出
4	Vdd	电源电压



Units: mm

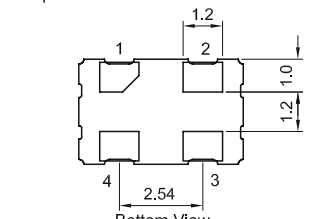
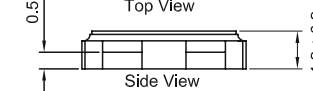
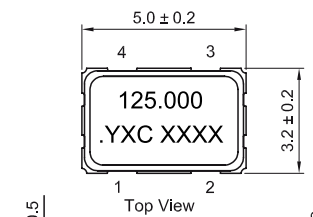
 给您一颗快乐的“芯”！ **YSO531SR**

 贴片金属表面振荡器
SMD Metal Surface Oscillator

Features

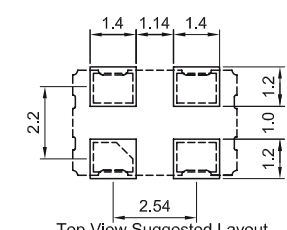
- External dimensions: 5.0 x 3.2 x 1.2 mm.
- Frequency range: 1MHz ~ 200MHz.
- Small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to wide frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- High stability, low jitter, low power consumption.
- Applications: wireless communication set, PDA, and DSC.

Electrical Specifications

Item / Type	YSO531SR
Output Frequency Range	1 ~ 200 MHz
Output Type	CMOS
Supply Voltage	1.8V/2.5V/3.3V/5V, or specify
Oscillation Mode	Fundamental / 3rd Overtone
Frequency Tolerance	± 20ppm, ± 25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	- 20 ~ + 70 °C, - 40 ~ + 85 °C, or specify
Storage Temperature Range	- 40 ~ + 85 °C, - 55 ~ + 125 °C
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	8 ns Max.
Start-up Time	10 ms Max.
Supply Current	See Below
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

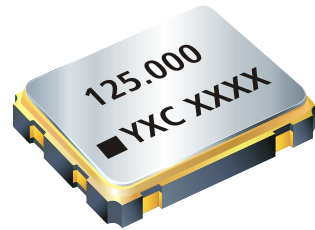
Dimensions


引脚功能定义		
引脚	功能	定义
1	E/D	三态/无三态
2	GND	接地
3	OUTPUT	输出
4	Vdd	电源电压



Units: mm

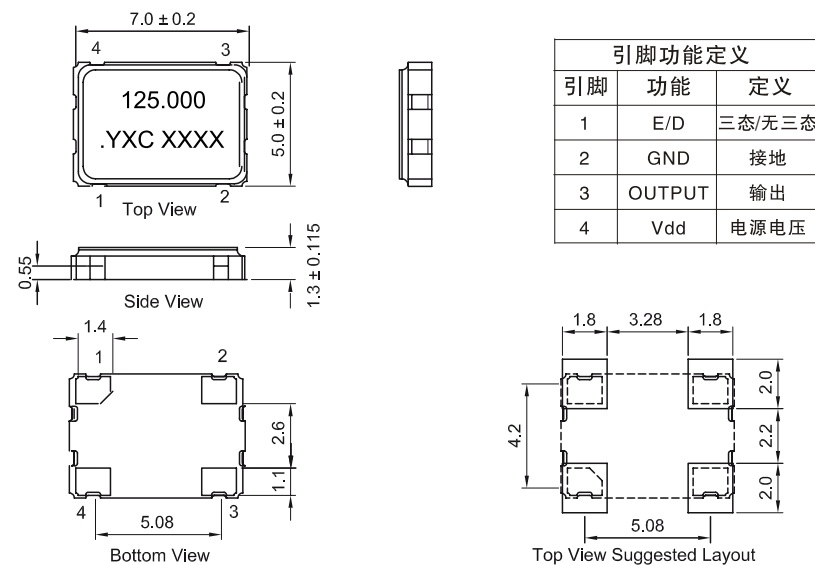
给您一颗快乐的“芯”！ **YSO751SR**

 贴片金属表面振荡器
SMD Metal Surface Oscillator

Features

- External dimensions: 7.0x 5.0 x 1.3 mm.
- Frequency range: 1MHz ~ 200MHz.
- Small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to wide frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available
- High stability, low jitter, low power consumption.
- Applications: wireless communication, PC, and LCDM.

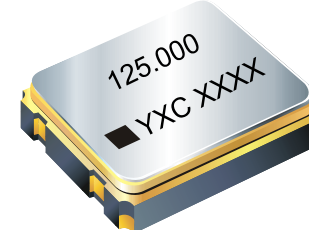
Electrical Specifications

Item / Type	YSO751SR
Output Frequency Range	1 ~ 200 MHz
Output Type	CMOS
Supply Voltage	1.8V/2.5V/3.3V/5V, or specify
Oscillation Mode	Fundamental / 3rd Overtone
Frequency Tolerance	± 20ppm, ± 25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	- 20 ~ + 70 °C, - 40 ~ + 85 °C, or specify
Storage Temperature Range	- 40 ~ + 85 °C, - 55 ~ + 125 °C
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	8 ns Max.
Start-up Time	10 ms Max.
Supply Current	See Below
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

Dimensions


Units: mm

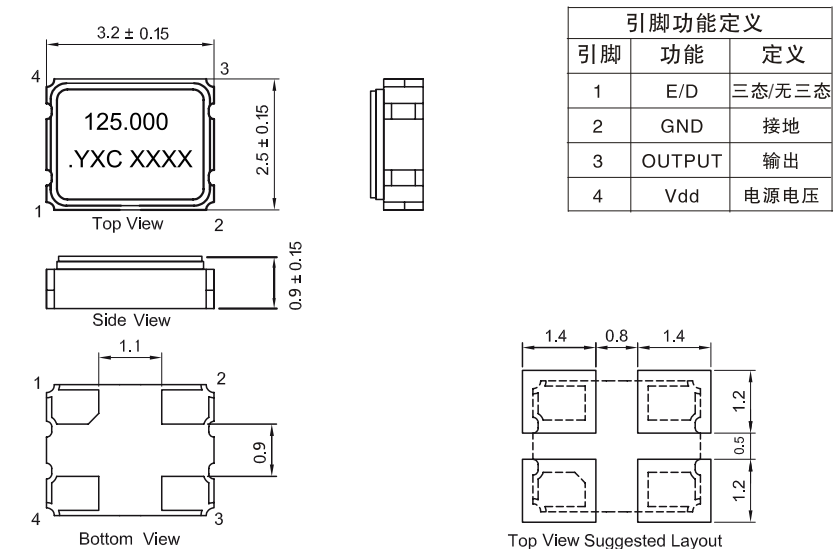
 给您一颗快乐的“芯”！ **YSO322ST**

 贴片金属表面振荡器
SMD Metal Surface Oscillator

Features

- External dimensions: 3.2 x 2.5 x 0.9 mm.
- Frequency range: 1MHz ~ 150MHz.
- Ultra Small SMD seam sealed clock crystal oscillator units.
- Applications: WLAN, Bluetooth, DSC, DSL, IP CAM, SSD, e-books and other IT product.
- Tri-state function available.

Electrical Specifications

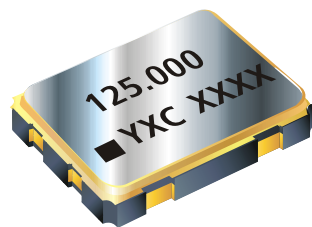
Item / Type	YSO322ST			
Output Frequency Range	1~90MHz		90~150MHz	
Supply Voltage	1.8V	2.25~5.5V	1.6~3.6V	5.0V
Current Consumption (Max.)	8mA	60mA	35mA	80mA
Output Type	CMOS			
Oscillation Mode	Fundamental / 3rd Overtone			
Frequency Tolerance	± 20ppm, ± 25ppm, or specify			
Output Load	15 pF, or specify			
Operating Temperature Range	- 40 ~ + 85 °C, or specify			
Storage Temperature Range	- 55 ~ + 125 °C			
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max			
Symmetry	45~55%DT,40/60~60/40%Svm			
Rise (Tr) / Fall (Tf) Time	10Max./8 ns Max.			
Start-up Time	10 ms Max.			
Aging (at 25 °C)	± 3 ppm / year Max.			
Phase Noise(Pn)	-125 Max. dBc/Hz @1kHz			
Three State Function	Enable Voltage	70%Vdd Min.		
	By Low Pressure	30%Vdd Max.		

Dimensions


Units: mm

给您一颗快乐的“芯”！ **YSO532ST**

贴片金属表面振荡器
SMD Metal Surface Oscillator



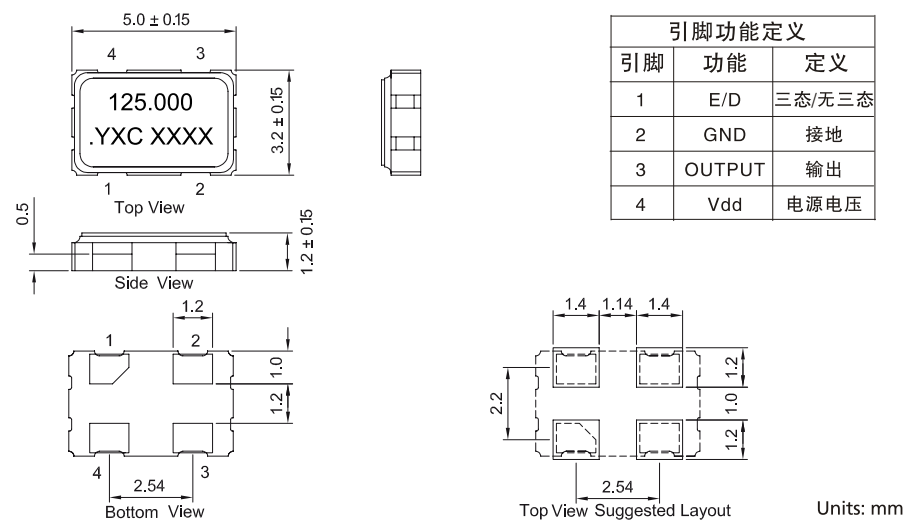
Features

- External dimensions: 5.0 x 3.2 x 1.2 mm.
- Frequency range: 1MHz ~ 150MHz.
- Smallest & Thinnest SMD package.
- Excellent temperature range, Best Reliability.
- Excellent total frequency stability.
- Applications: WLAN, Bluetooth, DSC, DSL, IP CAM, SSD, e-books and other IT product.

Electrical Specifications

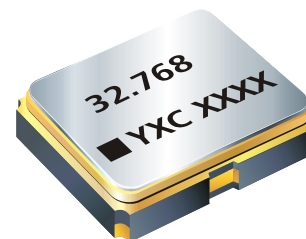
Item / Type	YSO532ST			
Output Frequency Range	1~90MHz		90~150MHz	
Supply Voltage	1.8V	2.25~5.5V	1.6~3.6V	5.0V
Current Consumption (Max.)	8mA	60mA	35mA	80mA
Output Type	CMOS			
Oscillation Mode	Fundamental / 3rd Overtone			
Frequency Tolerance	± 20ppm, ± 25ppm, or specify			
Output Load	15 pF, or specify			
Operating Temperature Range	- 40 ~ + 85 °C, or specify			
Storage Temperature Range	- 55 ~ + 125 °C			
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max			
Symmetry	45~55%DT,40/60~60/40%Svm			
Rise (Tr) / Fall (Tf) Time	10Max./8 ns Max.			
Start-up Time	10 ms Max.			
Aging (at 25 °C)	± 3 ppm / year Max.			
Phase Noise(Pn)	-125 Max. dBc/Hz @1khz			
Three State Function	Enable Voltage	70%Vdd Min.		
	By Low Pressure	30%Vdd Max.		

Dimensions



给您一颗快乐的“芯”！ **YSO221SK**

贴片金属表面振荡器
SMD Metal Surface Oscillator



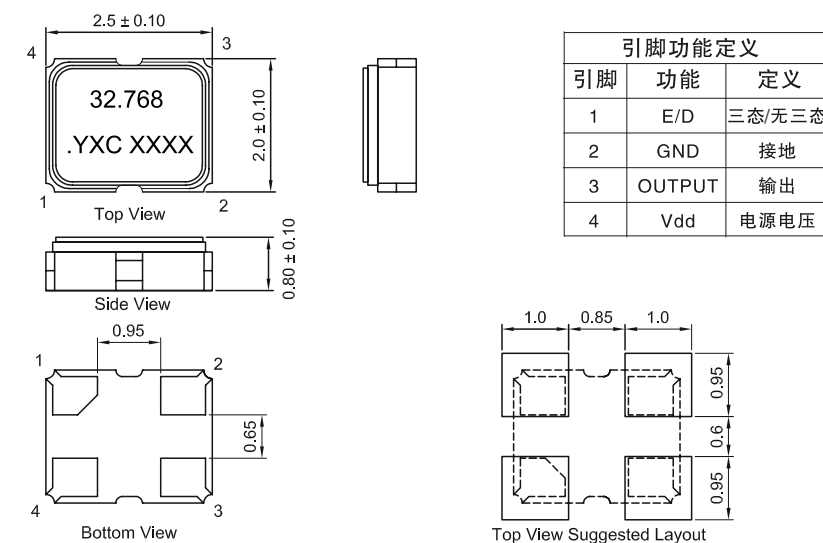
Features

- External dimensions: 2.5 x 2.0 x 0.8 mm.
- Frequency range: 32.768KHz.
- Ultra Small SMD seam sealed clock crystal oscillator units.
- Applications: WLAN, Bluetooth, DSC, DSL and other IT product.
- Tri-state function available.

Electrical Specifications

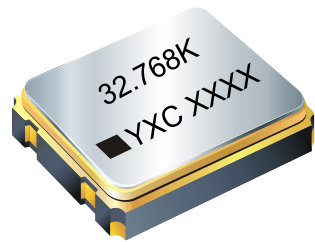
Item / Type	YSO221SK
Output Frequency Range	32.768KHz
Output Type	CMOS
Supply Voltage	1.8V/2.5V/3.3V/5V, or specify
Oscillation Mode	Fundamental
Frequency Tolerance	± 20ppm, ± 25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	- 20 ~ + 70 °C, - 40 ~ + 85 °C, or specify
Storage Temperature Range	- 40 ~ + 85 °C, - 55 ~ + 125 °C
Voltage Vol (Max.) / Vol (Min.)	0.1VDD / 0.9VDD
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	200ns Max.
Start-up Time	10 ms Max.
Supply Current	See Below
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

Dimensions



给您一颗快乐的“芯”！ **YSO321SK**

贴片金属表面振荡器
SMD Metal Surface Oscillator



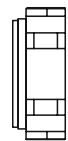
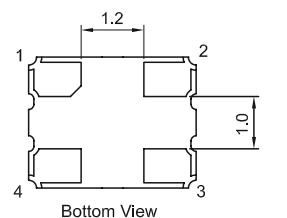
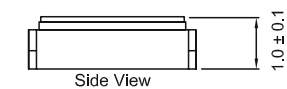
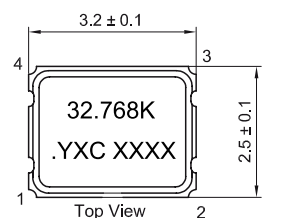
Features

- External dimensions: 3.2 x 2.5 x 1.0 mm.
- Ultra small 32.768 kHz RTC oscillator.
- 4 pads designed to achieve good soldering contact on PCB.
- Use AT crystal as the resonator for good temperature performance.
- Tri-State function available for power saving.
- Applications: Mobile Phone, Tablet, Health and Wellness Monitors, Fitness watches, Sports Video Cams, Wireless keypads.

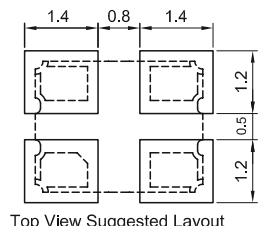
Electrical Specifications

Item / Type	YSO321SK
Output Frequency Range	32.768KHz
Output Type	CMOS
Supply Voltage	1.8V/2.5V/3.3V, or specify
Oscillation Mode	Fundamental / 3rd Overtone
Frequency Tolerance	± 20ppm, ± 25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	- 20 ~ + 70 °C, - 40 ~ + 85 °C, or specify
Storage Temperature Range	- 40 ~ + 85 °C, - 55 ~ + 125 °C
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	8 ns Max.
Start-up Time	10 ms Max.
Supply Current	See Below
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

Dimensions



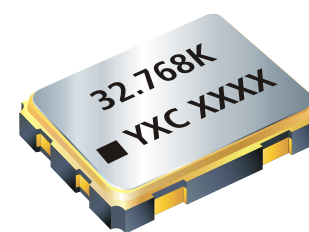
引脚功能定义		
引脚	功能	定义
1	E/D	三态/无三态
2	GND	接地
3	OUTPUT	输出
4	Vdd	电源电压



Units: mm

给您一颗快乐的“芯”！ **YSO531SK**

贴片金属表面振荡器
SMD Metal Surface Oscillator



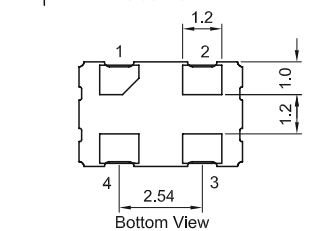
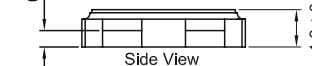
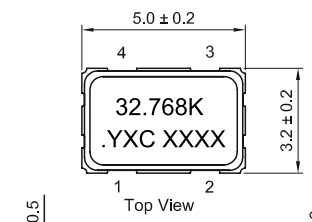
Features

- External dimensions: 5.0 x 3.2 x 1.2 mm.
- Ultra small 32.768 kHz RTC oscillator.
- 4 pads designed to achieve good soldering contact on PCB.
- Use AT crystal as the resonator for good temperature performance.
- Tri-State function available for power saving.
- Applications: Mobile Phone, Tablet, Health and Wellness Monitors, Fitness watches, Sports Video Cams, Wireless keypads.

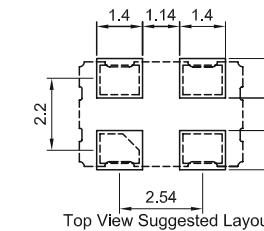
Electrical Specifications

Item / Type	YSO531SK
Output Frequency Range	32.768KHz
Output Type	CMOS
Supply Voltage	1.8V/2.5V/3.3V, or specify
Oscillation Mode	Fundamental
Frequency Tolerance	± 20ppm, ± 25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	- 20 ~ + 70 °C, - 40 ~ + 85 °C, or specify
Storage Temperature Range	- 40 ~ + 85 °C, - 55 ~ + 125 °C
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	8 ns Max.
Start-up Time	10 ms Max.
Supply Current	See Below
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

Dimensions



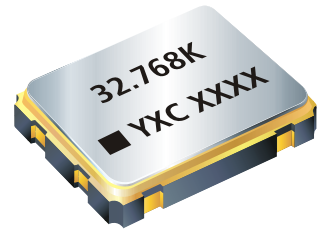
引脚功能定义		
引脚	功能	定义
1	E/D	三态/无三态
2	GND	接地
3	OUTPUT	输出
4	Vdd	电源电压



Units: mm

给您一颗快乐的“芯”！ **YSO751SK**

贴片金属表面振荡器
SMD Metal Surface Oscillator



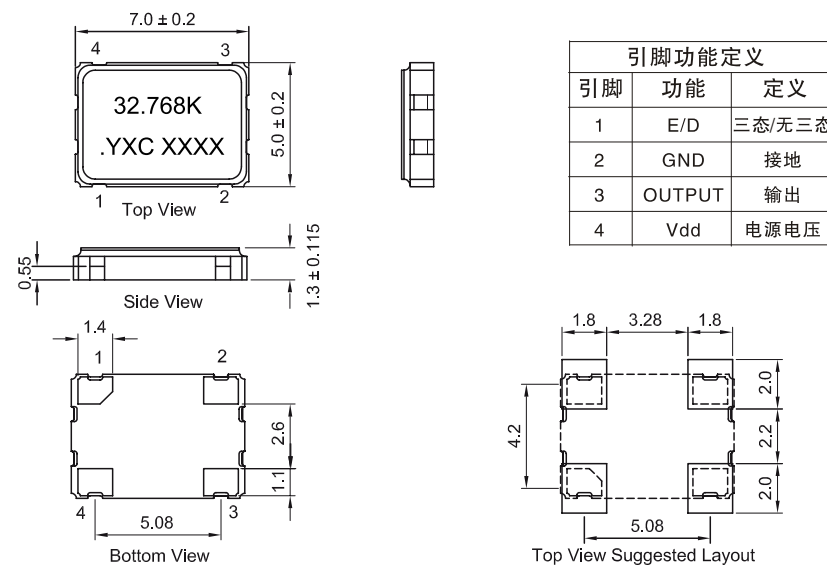
Features

- External dimensions: 7.0 x 5.0 x 1.3 mm.
- Ultra small 32.768 kHz RTC oscillator.
- 4 pads designed to achieve good soldering contact on PCB.
- Use AT crystal as the resonator for good temperature performance.
- Tri-State function available for power saving.
- Applications: Mobile Phone, Tablet, Health and Wellness Monitors, Fitness watches, Sports Video Cams, Wireless keypads.

Electrical Specifications

Item / Type	YSO751SK
Output Frequency Range	32.768KHz
Output Type	CMOS
Supply Voltage	1.8V/2.5V/3.3V, or specify
Oscillation Mode	Fundamental
Frequency Tolerance	±20ppm, ±25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	-20 ~ +70 °C, -40 ~ +85 °C, or specify
Storage Temperature Range	-40 ~ +85 °C, -55 ~ +125 °C
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	8 ns Max.
Start-up Time	10 ms Max.
Supply Current	See Below
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

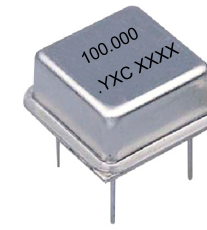
Dimensions



Units: mm

给您一颗快乐的“芯”！ **YSO1212SR**

直插金属表面振荡器
Dip metal surface oscillator



Features

- External dimensions: 12.7 x 12.7 x 5.4 mm.
- Frequency range: 1MHz ~ 100MHz.
- All metal welded package.
- Builtin CMOS IC with tristate function.

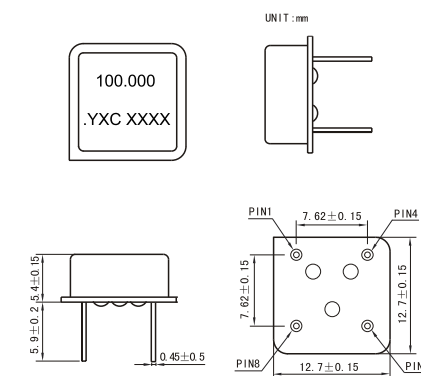
Applications

- Monitor, computers, wireless lan card & wire, CDplayer, HDD, Work station.

Electrical Specifications

Item / Type	YSO1212SR
Output Frequency Range	1 ~ 100 MHz
Output Type	CMOS
Supply Voltage	3.3V/5V, or specify
Oscillation Mode	Fundamental
Frequency Tolerance	±20ppm, ±25ppm, or specify
Output Load	15 pF, or specify
Operating Temperature Range	-20 ~ +70 °C, -40 ~ +85 °C, or specify
Storage Temperature Range	-40 ~ +85 °C, -55 ~ +125 °C
Voltage Vol (Max.) / Vol (Min.)	90%Vdd min./10%Vdd max
Symmetry	40 ~ 60 % Standard
Rise (Tr) / Fall (Tf) Time	10 ns Max.
Start-up Time	10 ms Max.
Supply Current	30 mA Max. (<50MHz)
Frequency Aging (at 25 °C)	± 3 ppm / year Max.

Dimensions



引脚	功能	定义
1	E/D	三态/无三态
2	GND	接地
3	OUTPUT	输出
4	Vdd	电源电压

Units: mm