

# Temperature Sensing Crystals Unit YSX221TS



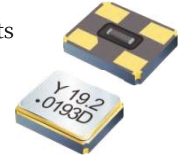
## Applications

- Mobile Communications

## Features

- Excellent Reliability Characteristics Such as Heat and Mechanical Shock

- Pb-free and Satisfy ROHS Requirements



## Specifications (规格参数)

Item / Type	Specifications
Output Frequency Range 额定频率范围	12 ~ 54MHz
Operating Temperature Range 工作温度	-30 ~ +85°C, or specify
Storage Temperature Range 储存温度	-40 ~ +85°C
Frequency Tolerance (at 25°C) 频率偏差	±10ppm, or specify
Frequency Stability Over Operating Temperature Range 频率-温度特性	±10ppm, or specify
Shunt Capacitance (C0) 静态电容	3pF Max
Drive Level 激励电平	1~200µW (50µW typical)
Load Capacitance 负载电容	8pF, 10pF, 12pF, or specify
Aging (at 25°C) 老化率	± 3 ppm / first year Max
Thermistor Resistance (at 25°C) 热敏电阻	100KΩ ±1%
Thermistor B-constant (25~50°C) 热敏电阻B常数	4250KΩ ±1%

## Equivalent Series Resistance (等效串联电阻 (ESR))

Frequency Range	ESR
12 ~ 13MHz	150Ω Max
14 ~ 30MHz	100Ω Max
30 ~ 54MHz	60Ω Max

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

Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)										
<p><b>Top View:</b> Overall width is <math>2.5 \pm 0.1</math> mm. The distance between pins #1 and #2 is <math>2.0 \pm 0.1</math> mm. The distance between pins #3 and #4 is <math>1.55</math> mm. A central marking is present.</p> <p><b>Bottom View:</b> Shows the component's profile with a height of <math>1.05</math> mm. The distance between pins #1 and #2 is <math>0.65</math> mm. The distance between pins #3 and #4 is <math>1.55</math> mm. The distance between pins #1 and #4 is <math>0.55</math> mm. A thickness of <math>0.2</math> mm is indicated.</p> <p><b>Side View:</b> Shows a maximum height of <math>1.0</math> Max mm.</p>	<p>The land pattern shows four pins with the following dimensions: distance between pins #1 and #2 is <math>1.00</math> mm, distance between pins #2 and #3 is <math>0.85</math> mm, and distance between pins #3 and #4 is <math>1.00</math> mm. The distance between pins #1 and #4 is <math>0.90</math> mm. The distance between pins #1 and #2 is <math>0.65</math> mm. The distance between pins #3 and #4 is <math>0.90</math> mm.</p> <table border="1" data-bbox="943 757 1433 943"> <thead> <tr> <th>Pin</th> <th>FUNCTION</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>XTAL Terminal 1</td> </tr> <tr> <td>#2</td> <td>Thermistor Terminal 2</td> </tr> <tr> <td>#3</td> <td>XTAL Terminal 2</td> </tr> <tr> <td>#4</td> <td>Thermistor Terminal 1</td> </tr> </tbody> </table>	Pin	FUNCTION	#1	XTAL Terminal 1	#2	Thermistor Terminal 2	#3	XTAL Terminal 2	#4	Thermistor Terminal 1
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