

Temperature Sensing Crystals Unit YSX221TS



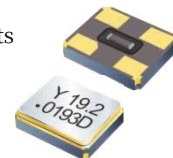
Applications

- 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>Top View: Overall width is 2.5 ± 0.1 mm. The distance between pins #1 and #2 is 2.0 ± 0.1 mm. The distance between pins #3 and #4 is 1.55 mm. A central marking is present.</p> <p>Bottom View: Shows the component's profile with a height of 1.05 mm. The distance between pins #1 and #2 is 0.65 mm. The distance between pins #3 and #4 is 1.55 mm. The distance between pins #1 and #4 is 0.55 mm. A thickness of 0.2 mm is indicated.</p> <p>Side View: Shows a maximum height of 1.0 Max mm.</p>	<p>The recommended land pattern shows a central component with four pins. The distance between pins #1 and #2 is 0.85 mm. The distance between pins #3 and #4 is 0.85 mm. The distance between pins #1 and #4 is 1.00 mm. The distance between pins #2 and #3 is 1.00 mm. The overall width of the land pattern is 1.00 mm. The distance between the top and bottom land patterns is 0.90 mm. The distance between the top and bottom land patterns is 0.65 mm. The distance between the top and bottom land patterns is 0.90 mm.</p> <table border="1"> <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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