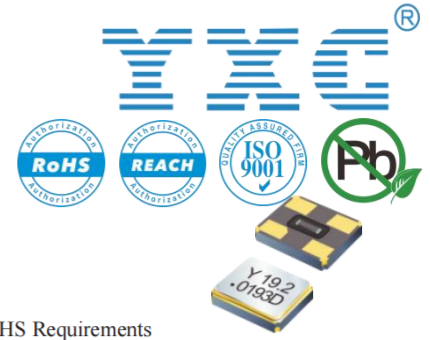


Temperature Sensing Crystals Unit YSX221TS



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 |

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 2.5±0.1, height 2.0±0.1. Marking area #1, #2, #3, #4.</p> <p>Bottom View: Width 1.25±0.15, height 0.7±0.05. Terminal widths 1.0±0.05 and 0.65±0.05. Marking area #1, #2, #3, #4.</p> <p>Side View: Height 1.0Max.</p> | <p>Recommended soldering Pattern</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 |
| Pin | FUNCTION | | | | | | | | | | |
| #1 | XTAL Terminal 1 | | | | | | | | | | |
| #2 | Thermistor Terminal 2 | | | | | | | | | | |
| #3 | XTAL Terminal 2 | | | | | | | | | | |
| #4 | Thermistor Terminal 1 | | | | | | | | | | |