

Crystal Unit

AEC-Q200

YSX321SC



Applications

- Automotive
- Industrial

Features

- Dimensions: 3.20 x 2.50 x 0.70 mm
- Standard Frequency: 8 ~ 66MHz

- Low Impedance Performance
- AEC-Q200 Qualified



Specifications (规格参数)

| Item | Symbol | Specifications |
|--|--------|-------------------------------|
| Nominal Frequency Range (额定频率范围) | f_nom | 8 ~ 66MHz |
| Vibration Mode (震动模式) | - | AT Fundamental |
| Load Capacitance (负载电容) | CL | 8pF, 12pF, or specify |
| Frequency Tolerance (频率偏差) (at 25°C) | f_tol | ±10ppm, ±30ppm, or specify |
| Frequency Versus Temperature Characteristics (频率-温度特性) | f_tem | ±50ppm, or specify |
| Operating Temperature (工作温度) | T_use | -40~+125°C, or specify |
| Storage Temperature (储存温度) | T_stg | -55~+125°C |
| Shunt Capacitance (静态电容) | C0 | 3pF Max |
| Level of Drive (激励电平) | DL | 1~200 μW Max (100 μW typical) |
| Aging (老化) (at 25°C) | f_age | ±2ppm/year Max |

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

| YSX321SC | | | |
|--------------|-----------|--------------|----------|
| 8 ~ 9.9MHz | 800 Ω Max | 13 ~ 15.9MHz | 80 Ω Max |
| 10 ~ 10.9MHz | 250 Ω Max | 16 ~ 20.9MHz | 70 Ω Max |
| 11 ~ 11.9MHz | 150 Ω Max | 21 ~ 29.9MHz | 60 Ω Max |
| 12 ~ 12.9MHz | 100 Ω Max | 30 ~ 66.0MHz | 50 Ω 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: 3.20±0.1, 2.50±0.1, 1, 2, 3, 4, Marking</p> <p>Side View: 0.7±0.1</p> <p>Bottom View: 1.2, 0.7, 1, 2, 3, 4</p> | <p>Top View Crystal Connection: 1, 2, 3, 4, GND</p> <p>Top View Suggested Layout: 1.4, 0.8, 1.4, 1.2, 0.5, 1.2</p> |