

Crystal Unit

AEC-Q200

YSX321SC



Applications

- GPS Automotive electronics

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 | 1~200μW Max.(100μW 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 | 80ΩMax. |
| 10 ~ 10.9 MHz | 250 Ω Max | 16 ~ 20.9 MHz | 70ΩMax. |
| 11 ~ 11.9 MHz | 150 Ω Max. | 21 ~ 29.9 MHz | 60ΩMax. |
| 12 ~ 12.9 MHz | 100 Ω Max | 30 ~ 66.0 MHz | 50ΩMax. |

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: 0.65±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> |

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