

# Crystal Unit

## AEC-Q200

# YSX531SC



### Applications

- Automotive
- Industrial

### Features

- Dimensions: 5.00 x 3.20 x 0.85mm
- AEC-Q200 Qualified
- Standard Frequency: 7.6 ~ 54MHz



## Specifications (规格参数)

| Item   | Symbol | Specifications             |
|--|--------|----------------------------|
| Nominal Frequency Range (额定频率范围)                       | f_nom  | 7.6 ~ 54MHz                |
| Vibration Mode (震动模式)                                  | -      | AT Fundamental             |
| Load Capacitance (负载电容)                                | CL     | 18pF, 20pF, 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     | 5pF Max                    |
| Level of Drive (激励电平)                                  | DL     | 1~300µW Max(100µW typical) |
| Aging (老化) (at 25°C)                                   | f_age  | ±2ppm/year Max             |

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

| YSX531SC      |          |              |         |
|---------------|----------|--------------|---------|
| 7.6 ~ 11.9MHz | 100Ω Max | 14 ~ 19.9MHz | 50Ω Max |
| 12 ~ 13.9MHz  | 60Ω Max  | 20 ~ 54MHz   | 40Ω 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</p> <p>Bottom View</p> <p>Side View</p> | <p>Top View Crystal Connection</p> <p>Recommended Soldering Pattern</p> |