

# Crystal Unit

## AEC-Q200

### YSX211SC Small Size



#### Applications

- Automotive
- Industrial

#### Features

- Dimensions: 2.05 x 1.65 x 0.45mm
- Standard Frequency: 16 ~ 72MHz

- High Precision and Tight Frequency Stability
- AEC-Q200 Qualified



### Specifications (规格参数)

| Item   | Symbol | Specifications              |
|--|--------|-----------------------------|
| Nominal Frequency Range (额定频率范围)                       | f_nom  | 16~72MHz                    |
| Vibration Mode (震动模式)                                  | -      | AT Fundamental              |
| Load Capacitance (负载电容)                                | CL     | 8pF, 10pF, 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, or specify      |
| Shunt Capacitance (静态电容)                               | C0     | 3pF Max                     |
| Level of Drive (激励电平)                                  | DL     | 10~200µW Max(100µW typical) |
| Aging (老化) (at 25°C)                                   | f_age  | ±2ppm/year Max              |

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

| YSX211SC   |          |            |          |
|------------|----------|------------|----------|
| 16 ~ 20MHz | 200Ω Max | 26 ~ 40MHz | 100Ω Max |
| 21 ~ 25MHz | 120Ω Max | 41 ~ 72MHz | 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: 2.00±0.10, 1.60±0.10, Marking, 1, 2, 3, 4</p> <p>Side View: 0.45±0.10</p> <p>Bottom View: 0.575±0.10, 0.7±0.10, 0.5±0.10, 0.475±0.10, 1, 2, 3, 4</p> | <p>Top View Crystal Connection: 4 GND, 3, 1, 2 GND</p> <p>Top View Suggested Layout: 0.9, 0.5, 0.9, 0.8, 0.3, 0.8</p> |