

# Crystal Unit

## YSX321SL



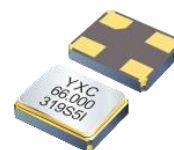
### Applications

- IOT
- Smart Wearable
- Communication

### Features

- Dimensions: 3.20 x 2.50 x 0.70 mm
- Standard Frequency: 8 ~ 64MHz

- High Precision and Tight Frequency Stability
- EMI Reduction



## Specifications (规格参数)

| Item                                                    | Symbol           | Specifications               |
|---------------------------------------------------------|------------------|------------------------------|
| Nominal Frequency Range<br>额定频率范围                       | f <sub>nom</sub> | 8 ~ 64MHz                    |
| Vibration Mode<br>震动模式                                  | -                | AT Fundamental               |
| Load Capacitance<br>负载电容                                | CL               | 10pF, 20pF, or specify       |
| Frequency Tolerance<br>频率偏差(at 25°C)                    | f <sub>tol</sub> | ±10ppm, ±20ppm, or specify   |
| Frequency Versus Temperature Characteristics<br>频率-温度特性 | f <sub>tem</sub> | ±20ppm, or specify           |
| Operating Temperature<br>工作温度                           | T <sub>use</sub> | -40~+85°C or specify         |
| Storage Temperature<br>储存温度                             | T <sub>stg</sub> | -55~+125°C                   |
| Shunt Capacitance<br>静态电容                               | C0               | 3pF Max                      |
| Level of Drive<br>激励电平                                  | DL               | 10~200μW Max (100μW typical) |
| Aging<br>老化(at 25°C)                                    | f <sub>age</sub> | ±3ppm/year Max               |

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

| YSX321SL       |          |
|----------------|----------|
| 8 ~ 11.2892MHz | 150Ω Max |
| 12 ~ 15MHz     | 80Ω Max  |
| 16 ~ 31MHz     | 50Ω Max  |
| 32 ~ 64MHz     | 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>Side View</p> <p>Bottom View</p> | <p>Top View Crystal Connection</p> <p>Top View Suggested Layout</p> |