

# Crystal Unit

## 32.768KHZ

### YST310S



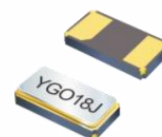
#### Applications

- RTC

#### Features

- Dimensions: 3.20 x 1.50 x 0.70mm  
- Standard Frequency: 32.768KHz

- High Precision and Tight Frequency Stability  
- Excellent Heat Resistance and Environmental Characteristics



## Specifications (规格参数)

| Item                                  | Symbol           | Specifications                                 |
|---------------------------------------|------------------|------------------------------------------------|
| Nominal Frequency<br>标称频率             | f <sub>nom</sub> | 32.768KHz                                      |
| Load Capacitance<br>负载电容              | CL               | 7pF, 9pF, 12.5pF, or specify                   |
| Frequency Tolerance<br>频率偏差 (at 25°C) | f <sub>tol</sub> | ±10ppm, ±20ppm, or specify                     |
| Parabolic Coefficient<br>频率温度系数       | B                | -0.04 * 10 <sup>-6</sup> / °C <sup>2</sup> Max |
| Operating Temperature<br>工作温度         | T <sub>use</sub> | -20~+70°C, -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               | 2pF Max                                        |
| Level of Drive<br>激励电平                | DL               | 0.5μW Max                                      |
| Aging<br>老化(at 25°C)                  | f <sub>age</sub> | ±3ppm/year Max                                 |

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

| YST310S  |
|----------|
| 70KΩ 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>Recommended soldering Pattern</p> |