

Crystal Unit  
AEC-Q200  
YSX530SC



Applications

- Automotive
- Industrial

Features

- Dimensions: 5.00 x 3.20 x 1.10mm
- Standard Frequency: 7.4 ~ 54MHz

- 2 pads SMD Metal Sealed Crystal Unit



Specifications (规格参数)

| Item                                                    | Symbol           | Specifications             |
|---------------------------------------------------------|------------------|----------------------------|
| Nominal Frequency Range<br>额定频率范围                       | f <sub>nom</sub> | 7.4 ~ 54MHz                |
| Vibration Mode<br>震动模式                                  | -                | AT Fundamental             |
| Load Capacitance<br>负载电容                                | CL               | 18pF, 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> | ±50ppm, or specify         |
| Operating Temperature<br>工作温度                           | T <sub>use</sub> | -40~+125°C, or specify     |
| Storage Temperature<br>储存温度                             | T <sub>stg</sub> | -55~+125°C                 |
| Shunt Capacitance<br>静态电容                               | C <sub>0</sub>   | 5pF Max                    |
| Level of Drive<br>激励电平                                  | DL               | 1~300μW Max(100μW typical) |
| Aging<br>老化(at 25°C )                                   | f <sub>age</sub> | ±2ppm/year Max             |

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

| YSX530SC      |          |              |         |
|---------------|----------|--------------|---------|
| 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)                              |
|--------------------------------------------------|------------------------------------------------------------------|
| <br>Top View<br><br>Side View<br><br>Bottom View | <br>Top View Crystal Connection<br><br>Top View Suggested Layout |