

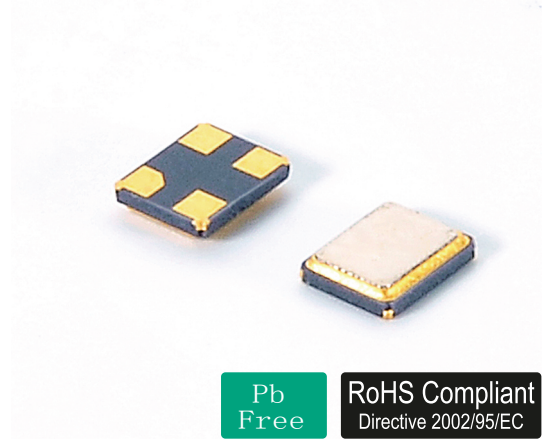
# 3.2x2.5 SMD Crystal

## FEATURE

- Rugged AT-cut crystal construction.
- Miniature 3.2×2.5mm ceramic package.
- Designed for automatic mounting and reflow soldering.
- Embossed tapping specification.
- Pb-free and RoHS/Green compliant.

## APPLICATIONS

- Ideally suited designed for Bluetooth wireless communication sets, HDD, DSN, PDA, GPS, Digital Tuner, Wireless LAN and mobile phone.



Pb Free

RoHS Compliant  
Directive 2002/95/EC

## Electrical Specifications 电气参数

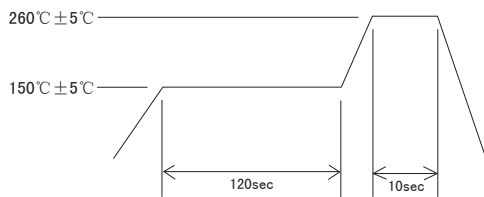
| 型号     | Holder Type                                 | 3.2x2.5mm Ceramic Surface Mount          |
|--------|---|--|
| 频率范围   | Frequency Range                             | 12MHz to 54MHz                           |
| 调整频差   | Frequency Tolerance ( $\Delta F$ ) (at25°C) | $\pm 10$ ppm to $\pm 30$ ppm             |
| 温度频差   | Frequency Drift                             | $\pm 10$ ppm to $\pm 30$ ppm※(See Notes) |
| 工作温度范围 | Operating Temperature Range                 | -20°C - +70°C / -40°C - +85°C            |
| 储存温度范围 | Storage Temperature Range                   | -40°C - +85°C / -55°C - +125°C           |
| 老化     | Aging (25°C)                                | $\pm 3$ ppm/ year max.                   |
| 静电容    | Shunt Capacitance (C0)                      | 3pF max.                                 |
| 激励功率   | Drive Level                                 | 10 $\mu$ w (100 $\mu$ W max.)            |
| 绝缘阻抗   | Insulation Resistance (Rs)                  | 500 Megaohms Minimum at D.C100V          |
| 负载电容   | Load Capacitance (CL)                       | Suggested by customer                    |

※Notes:  $\pm 10$ ,  $\pm 20$ ,  $\pm 30$ ppm (-20°C to +70°C)  
 $\pm 20$ ,  $\pm 30$ ,  $\pm 50$ ppm (-40°C to +85°C) or depends on customer

## Equivalent Series Resistance and Mode of Operation 等效阻抗和振荡模式

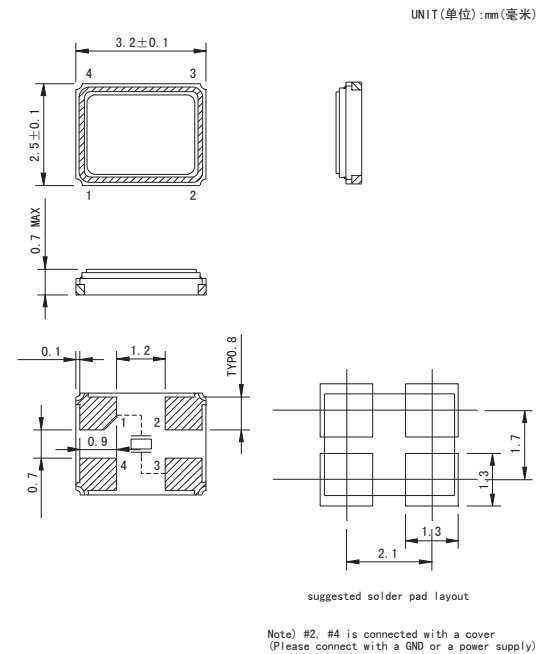
| Frequency Range 频率范围      | ESR ( ) 等效阻抗     | Mode 振荡模式   |
|---------------------------|------------------|-------------|
| 12.000MHz ≤ f < 16.000MHz | 100 $\Omega$ max | Fundamental |
| 16.000MHz ≤ f < 20.000MHz | 80 $\Omega$ max  | Fundamental |
| 20.000MHz ≤ f < 24.000MHz | 60 $\Omega$ max  | Fundamental |
| 24.000MHz ≤ f < 54.000MHz | 40 $\Omega$ max  | Fundamental |

## Reflow Condition(回流焊条件)



CYCLE TIME: 200sec Max.

## Mechanical Dimensions 外型尺寸



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