

# SMD Seam Crystal Units 3.2x2.5x0.70mm Series



## Features

- . Extremely small SMD type crystal units.
- . Application for smart phone, sip module ,variety of compact portable consumer products reference clocks.
- . High reliable environmental performance



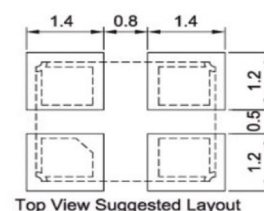
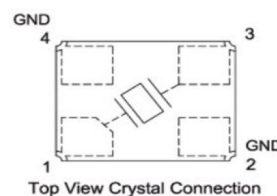
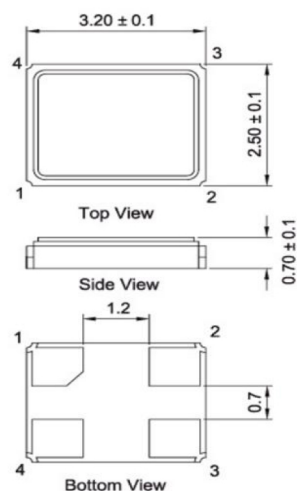
## Electrical Specifications

| Item / Type                         |                                        |
|-------------------------------------|----------------------------------------|
| Frequency Range 频率范围                | 8.00 ~ 64.00MHz                        |
| Frequency Tolerance (at 25 °c) 调频偏差 | ± 10 ppm ± 20 ppm, or specify          |
| Frequency Stability 频率温度特性          | ± 10 ppm ± 20 ppm, or specify          |
| Operating Temperature Range 工作温度    | -40 ~ +85 °c -40 ~ +105 °c, or specify |
| Shunt Capacitance (C0) 静态电容         | 3 pF Max. (2 pF typical)               |
| Drive Level 激励功率                    | 10 μW~200μW ( Max 100 μW )             |
| Load Capacitance 负载电容               | 6pF 8pF 9pF 10pF 12pF 20pF, or specify |
| Aging (at 25 °c) 老化率                | ± 3 ppm year Max.                      |
| Storage Temperature Range 存储温度      | - 5 5 ~ + 125 °c                       |

## Equivalent Series Resistance(ESR)

| Fundamental   |            |           |           |
|---------------|------------|-----------|-----------|
| 8~11.0592 MHz | 150 Ω Max. | 12~16MHz  | 50 Ω Max. |
| 17~39 MHz     | 40 Ω Max.  | 40~64 MHz | 30 Ω Max. |

## Dimensions



Units: mm