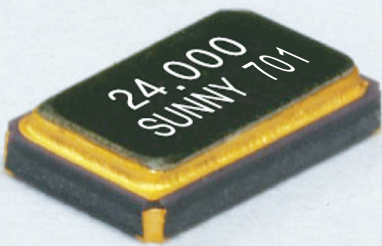


CRYSTAL UNIT

CERAMIC SMD TYPE  
SX-6

- Four pad ceramic surface mount package
- AT cut
- Tight tolerance/stability
- Using highly reliable seam weld method
- Taping and reel available, automatic mountable
- Pb-free and RoHS compliance



ELECTRICAL SPECIFICATIONS

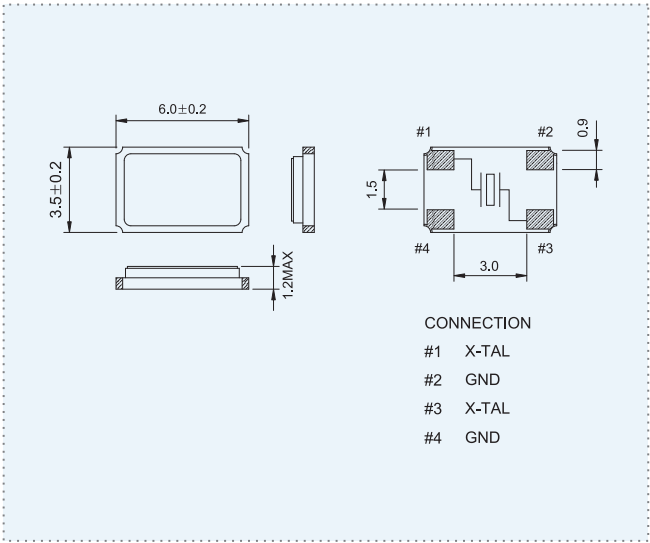
|                                                         |                                                       |
|---------------------------------------------------------|-------------------------------------------------------|
| Frequency Range                                         | 10.000 to 80.000MHz                                   |
| Operating Temperature Range                             | -10 to +60℃(STD), -20 to +70℃, -40 to 85℃, or specify |
| Storage Temperature Range                               | -40 to +85℃                                           |
| Frequency Tolerance (at 25℃)                            | ± 15, ± 30, ± 50ppm(STD), or specify                  |
| Frequency stability<br>Over Operating Temperature Range | See Table1 in page 4                                  |
| Load Capacitance(CL)                                    | 18pF(STD), Custom CL≥10pF or Series Resonant          |
| Drive Level                                             | 10μW(100μW max.)                                      |
| Shunt Capacitance(Co)                                   | 7.0pF max.                                            |
| Aging (at 25℃)                                          | ± 5.0ppm/year max.                                    |
| Insulation Resistance                                   | 500MΩ min. at 100V <sub>DC</sub>                      |

EQUIVALENT SERIES RESISTANCE(ESR)

| Frequency Range(MHz) | ESR(Ω MAX.) | Mode of Oscillation |
|----------------------|-------------|---------------------|
| 10.000 ~ 11.999      | 70          | Fundamental         |
| 12.000 ~ 14.999      | 60          | Fundamental         |
| 15.000 ~ 19.999      | 60          | Fundamental         |
| 20.000 ~ 34.999      | 50          | Fundamental         |
| 35.000 ~ 43.999      | 40          | Fundamental         |
| 44.000 ~ 49.999      | 80          | 3rd Overtone        |
| 50.000 ~ 80.000      | 80          | 3rd Overtone        |

MECHANICAL DIMENSIONS

(mm)



| CONNECTION |       |
|------------|-------|
| #1         | X-TAL |
| #2         | GND   |
| #3         | X-TAL |
| #4         | GND   |

LAND PATTERN

(mm)

