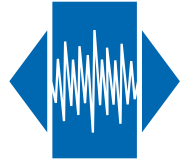


SMX-3C

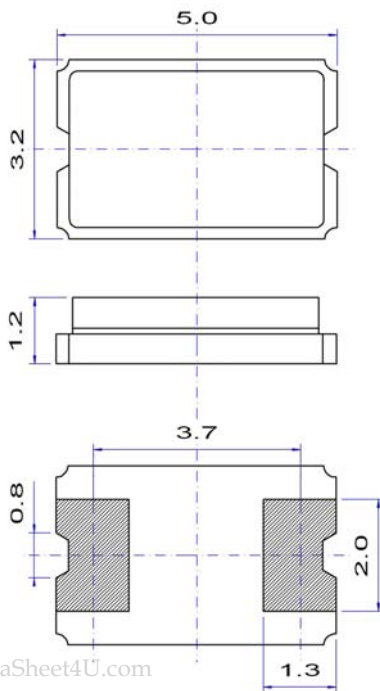


Full ceramic SMD Crystal

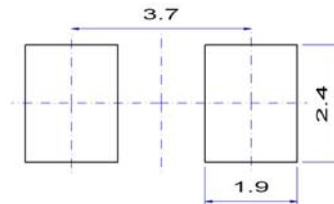
Features

- Applications: telecommunications, audio, automotive, instruments
- Small package size
- Reliable, low cost crystal
- Reflow soldering @ 260 °C

| Parameter | Specification | |
|------------------------------------|---|---------------------------------|
| Frequency range | 8 ~ 67 MHz | fundamental |
| Mode of oscillation | AT-cut | |
| Standard frequencies | 8.00, 13.00, 16.00, 19.20, 20.00, 24.576, 25.00 & 32.00 MHz | |
| Frequency tolerance | ±25 ~ ±50 ppm | @ +25 °C |
| Frequency stability | ±10 ~ ±50 ppm | vs. operating temperature range |
| Aging | ±2 ppm | 1 st year |
| Load capacitance | series or parallel resonance (CL = 8 ~ 32 pF) | |
| Equivalent series resistance (ESR) | < 12 Ω | @ 16 MHz |
| | < 10 Ω | @ 32 MHz |
| Drive level | 10 ~ 100 μW | |
| Operating temperature range | -20 ~ +70 °C | commercial application |
| | -40 ~ +85 °C | industrial application |
| | -40 ~ +125 °C | automotive application |
| Storage temperature range | -55 ~ +125 °C | |
| Packaging unit | tape & reel | 1'000 or 2'000 pieces |
| Customer specifications on request | | |



Example for soldering pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature

