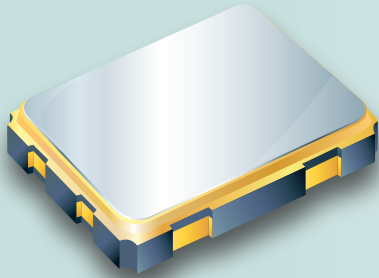


# SMD RTC Crystal Oscillators 5.0 x 3.2 x 1.2 mm 7CZ Series



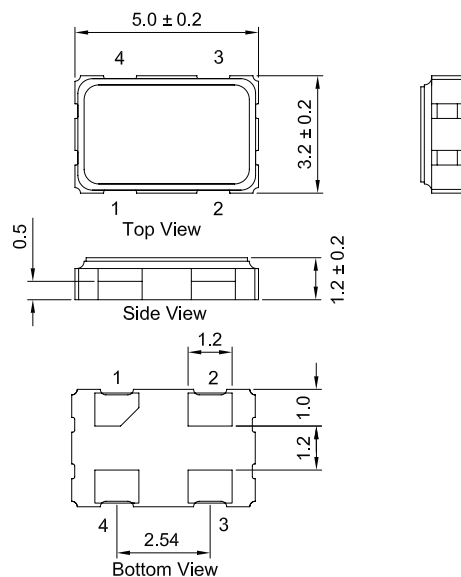
## Features

- Small Real Time Clock oscillator in SMD seam sealed ceramic package.
- 4 pads design to achieve good soldering contact on PCB.
- AT fundamental solution provides good frequency stability.
- Tri-State function available for power saving.
- RoHS Compliant / Pb Free.

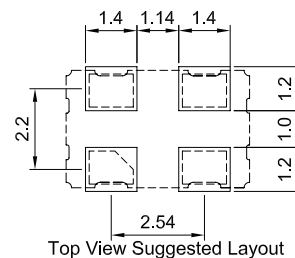
## Electrical Specifications

| Item / Type                               | 7CZ                   |
|---|-----------------------|
| Normal Frequency                          | 32.768 kHz            |
| Oscillation Mode                          | AT Fundamental        |
| Output Type                               | CMOS                  |
| Output Load                               | 15 pF                 |
| Supply Voltage                            | 2.5 V, 2.8 V, 3.3 V   |
| Frequency Stability                       | ± 25 ppm              |
| Operating Temperature Range               | - 40 ~ + 85 °C        |
| Storage Temperature Range                 | - 55 ~ + 125 °C       |
| Voltage Vol ( Max. ) / Voh ( Min. )       | 0.1 VDD / 0.9 VDD     |
| Rise ( Tr ) / Fall ( Tf ) Time            | 200 ns Max.           |
| Current Consumption                       | 3 mA Max.             |
| Symmetry                                  | 45 ~ 55 %             |
| Start-up Time                             | 10 ms Max.            |
| Tri-state Voltage Vol (Max.) / Voh (Min.) | 0.3 VDD / 0.7 VDD     |
| Aging ( at 25 °C )                        | ± 5 ppm at first year |

## Dimensions



PAD FUNCTION:  
 1: ENABLE CONTROL  
 2: GND  
 3: OUT  
 4: VDD



Units: mm