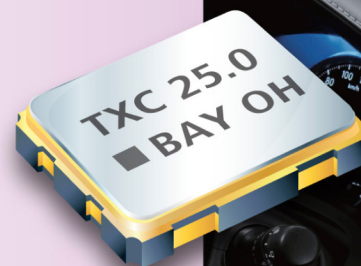


# SMD Oscillators- CMOS Output 5.0 x 3.2 x 1.2 mm AC Series

## Features

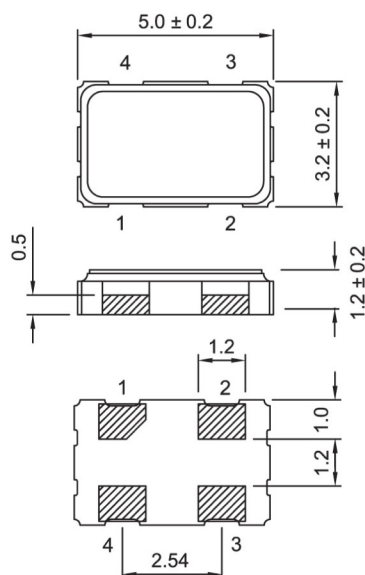
- Ultra small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to high frequency range.
- Designed for automatic mounting and reflow soldering.
- Optionable stand-by function for output: Tri-state output.
- Supply voltage range : 1.8 V ~ 5.0 V.
- High stability, low jitter , low power consumption.
- RoHS Compliant / Pb Free.
- 32.768 KHz CXO available.



## Electrical Specifications

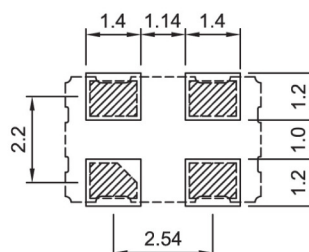
| Item / Type                         | AC                            |                      |
|-------------------------------------|-------------------------------|----------------------|
| Output Type                         | CMOS                          |                      |
| Output Load                         | 15 pF , 30 pF                 |                      |
| Oscillation Mode                    | Fundamental / 3rd Overtone    |                      |
| Supply Voltage                      | 1.8 V , 2.5 V , 3.3 V , 5.0 V |                      |
| Frequency Range                     | 1 ~ 150 MHz                   |                      |
| Frequency Stability                 | ± 50 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      | 10 ns Max.                    |                      |
| Supply Current                      | 1-75 MHz 20mA max.            | 75-150 MHz 40mA max. |
| Symmetry                            | 45 ~ 55 %                     |                      |
| Start-up Time                       | 10 ms Max.                    |                      |
| Phase Jitter ( 12 KHz ~ 20 MHz )    | 1 ps Max.                     |                      |
| Aging ( at 25 °C )                  | ± 3 ppm / year Max.           |                      |
| Reliability Standard                | AEC-Q100                      |                      |

## Dimensions



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

Suggested Layout



Units: mm

Remark : Specification subject to change without prior notice. Please confirm with our sales.

Automotive  
Application Series