

# SMD Crystal Oscillators- CMOS Output 7.0 x 5.0 x 1.3 mm 7W Series



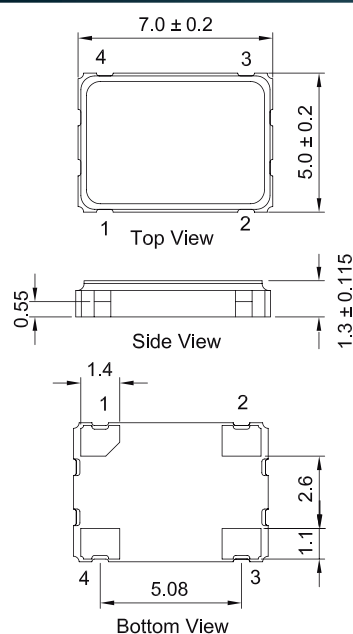
## Features

- Small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to wide frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8 V ~ 5 V.
- High stability, low jitter, low power consumption.
- Main application : wireless communication, PC, and LCDM.
- RoHS Compliant / Pb Free.

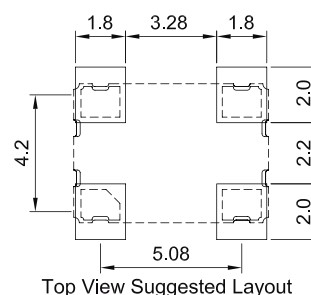
## Electrical Specifications

| Item / Type                         | 7W                              |                       |               |
|-------------------------------------|---------------------------------|-----------------------|---------------|
| Output Type                         | CMOS                            |                       |               |
| Output Load                         | 15 pF                           | 15 pF , 30 pF         | 15 pF , 50 pF |
| Oscillation Mode                    | Fundamental / 3rd Overtone      |                       |               |
| Supply Voltage                      | 1.8 V                           | 2.5 V , 2.8 V , 3.3 V | 5 V           |
| Frequency Range                     | 1 ~ 170 MHz                     |                       |               |
| Frequency Stability                 | ± 25 ppm , ± 50 ppm             |                       |               |
| Operating Temperature Range         | - 10 ~ + 70 °C , - 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      | 8 ns Max.                       |                       |               |
| Supply Current                      | 20 mA Max.                      |                       |               |
| Symmetry                            | 40 ~ 55 % , 40 ~ 60 %           |                       |               |
| Start-up Time                       | 5 ms Max.                       |                       |               |
| Phase Jitter ( 12 KHz ~ 20 MHz )    | 1 ps Max.                       |                       |               |
| Aging ( at 25 °C )                  | ± 3 ppm / year Max.             |                       |               |

## Dimensions



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



Units: mm