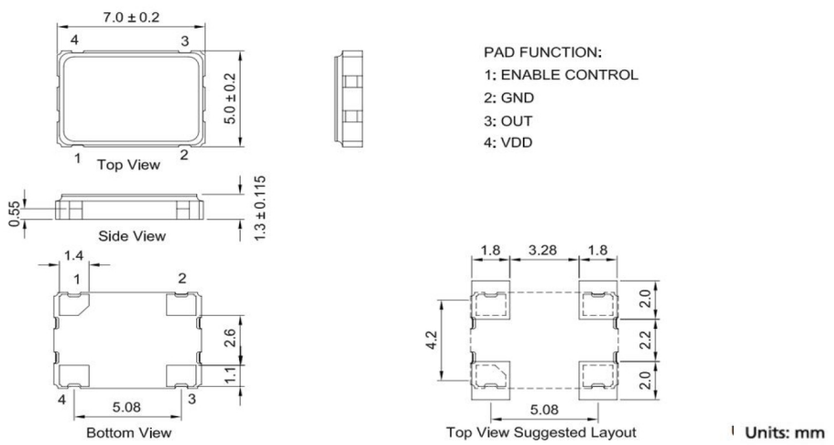
# SMD
# Crystal Oscillator
# 7.0x5.0x1.3mm Series

## Features

- Extremely Small SMD seam sealed clock oscillator units.
- Applications for smart phone, sip module, variety of compact portable consumer products
- Tri-state function available.
- High reliable environmental performance.

## Electrical Specifications

| Item / Type | |
|---|---|
| Frequency Range 频率范围 | 1 ~ 200MHZ |
| Output Type 输出模式 | COMS |
| Oscillation Mode 震荡模式 | Fundamental / 3rd Overtone |
| Supply Voltage 电源电压 | 1.8 V 2.5 V \| , 2.8 V , 3.3 V 5V |
| Output Load 负载驱动能力 | 15 pF , or specify |
| Frequency Stability 频率稳定度 | ± 20 ppm , ± 30 ppm |
| Operating Temperature Range 工作温度 | - 4 0 ~ + 85 ℃ , - 40 ~ + 105 ℃ |
| Storage Temperature Range 储存稳度 | - 55 ~ + 125 ℃ |
| Voltage Vol ( Max. ) / Voh ( Min. ) 电压最大/最小值 | 0.1 VDD / 0.9 VDD |
| Rise ( Tr ) / Fall ( Tf ) Time 上升/下降时间 | 8 ns Max. |
| Supply Current 输入电流 | 15 mA Max. |
| Symmetry 对称比 | 45 ~ 55 % |
| Start-up Time 起振时间 | 5 ms Max. |
| Phase Jitter ( 12 KHz ~ 20 MHz )相位抖动 | 1 ps Max. |
| Aging ( at 25 ℃ ) 年老化率 | ± 3 ppm / year Max. |

## Dimensions