

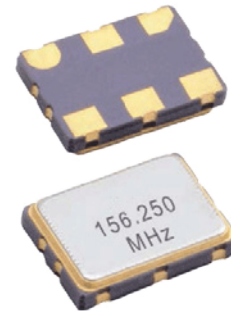
# VCXO (Voltage Controlled Crystal Oscillator)

Size: 7.0×5.0×1.3 mm

6S Series SMD 7050 VCXOs

## Features

- Voltage controlled crystal oscillator (VCXO)
- Frequency range from 1MHz to 200MHz
- CMOS output
- Excellent low phase noise and jitter
- 3-state function available
- Automatic mounting and reflow soldering
- Applications: Base station, Ethernet, Server SONET, Femtocell, etc
- RoHS Compliant /Pb Free

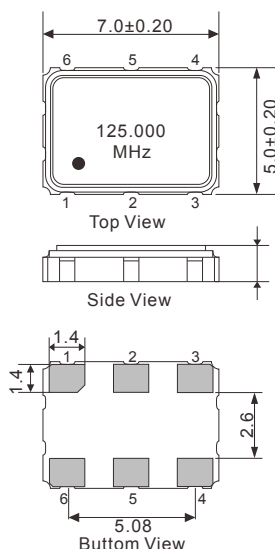


## Standard Specification

| Item /Type                     | 6S (SMD 7050 VCXO)         |                 |
|--------------------------------|----------------------------|-----------------|
| Output Type                    | CMOS                       |                 |
| Output Load                    | 15pF~30pF                  | 15pF or specify |
| Supply Voltage                 | 3.3V 5V                    | 3.3V            |
| Frequency Range                | 1~59 MHz                   | 50~200 MHz      |
| Supply Current                 | 10~45mA Max.               | 60mA Max.       |
| Frequency Stability            | ±25ppm, ±50ppm, or specify |                 |
| Operating Temperature          | -40~+85°C, or specify      |                 |
| Storage Temperature            | -55~+125°C                 |                 |
| Voltage Vol (Max.) /Voh (Min.) | 0.1VDD/0.9VDD              |                 |
| Rise (Tr) /Fall (Tf) Time      | 5ns Max.                   |                 |
| Start-up Time                  | 10ms Max.                  |                 |
| Duty Cycle                     | 40-60% 45~55%              | 45~55%          |
| Absolute Pulling Range (APR)*  | ±50ppm Min., or specify    |                 |
| Nominal Control Voltage        | 0.5 VDD                    |                 |
| Control Voltage Range          | 0~VDD                      |                 |
| Linearity                      | 10% Max.                   |                 |
| Phase Jitter (12KHz~20MHz)     | 1pS Max.                   |                 |
| Packing Unit                   | 1000pcs./Reel              |                 |

\*APR=(Pull Range)-(Frequency tolerance at 25°C,variation over temperature,supply voltage variation,and aging.)

## Dimensions [mm]



### Pin Connections

| Pin No. | Connection   |
|---------|--------------|
| 1       | OE or NC     |
| 2       | OE or NC     |
| 3       | GND          |
| 4       | Output       |
| 5       | Comp. Output |
| 6       | Vcc          |

\* External high frequency power supply decoupling required

