

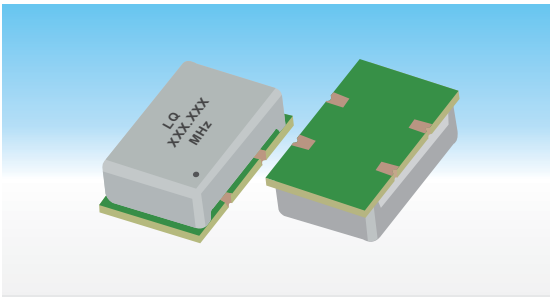
# VCXOs / Voltage Controlled Crystal Oscillators

9S Series SMD VCXOs

1.25~150MHz

O: CMOS

Size:14.0 ×9.0×3.6 mm



## Features

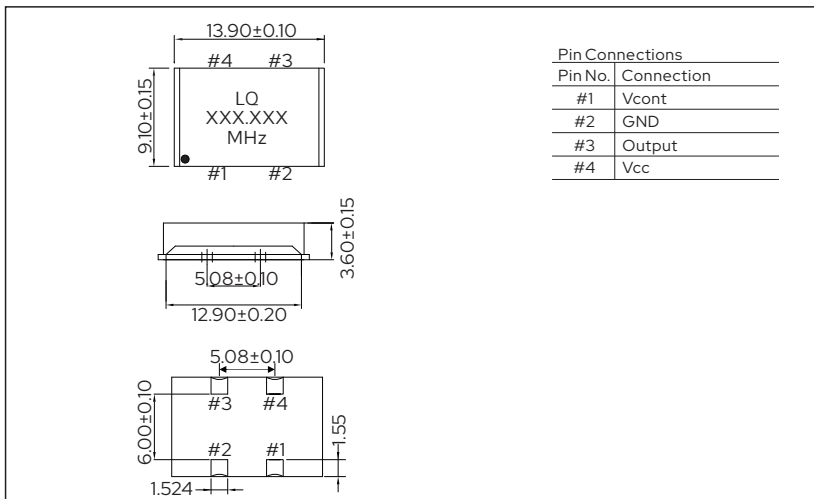
- SMD 14×9 VCXOs (Voltage Controlled Crystal Oscillators)
- Operating voltage: 1.8V / 3.3V / 5.0V
- High frequency range: 1.25MHz~150MHz
- Low current consumption
- Low phase noise
- Application for instrument, Microwave communication, Test & Measurement, Telecom system, Satellite, etc
- RoHS Compliant /Pb Free



## Standard Specifications

| Item  | Type | 9S Series SMD 14×9.0 VCXOs                        |               |              |
|---|------|---|---------------|--------------|
| Output Type                                     |      | CMOS  |               |              |
| Load condition                                  |      | 15pF, or specify                                  |               |              |
| Frequency Range                                 |      | 16MHz~50MHz                                       | 1.25MHz~50MHz | 50MHz~150MHz |
| Supply Voltage                                  |      | 1.8V /3.3V /5.0V                                  |               |              |
| Frequency Control Voltage                       |      | 0.9V±0.9V(1.8V), 1.65V±1.65V(3.3V), 2.5V±2.5V(5V) |               |              |
| Frequency Stability (All Condition)             |      | ±25ppm, ±50ppm, ±100ppm, or specify               |               |              |
| Frequency Adjustment Range                      |      | ±80ppm min., or specify                           |               |              |
| Current Consumption                             |      | 45mA max.   |               |              |
| Stand-by Current                                |      | 30µA max.   |               |              |
| Symmetry  |      | 45~55%  |               |              |
| 0 Level Output Voltage (V <sub>OL</sub> )       |      | V <sub>cc</sub> ×0.1 max.                         |               |              |
| 1 Level Output Voltage (V <sub>OH</sub> )       |      | V <sub>cc</sub> ×0.9 min.                         |               |              |
| Rise Time / Fall Time                           |      | 10ns max.   |               |              |
| OE Pin 0 Level Input Voltage (V <sub>IL</sub> ) |      | 0.3V <sub>cc</sub> max.                           |               |              |
| OE Pin 1 Level Input Voltage (V <sub>IH</sub> ) |      | 0.7V <sub>cc</sub> min.                           |               |              |
| Phase Jitter (12KHz~20MHz)                      |      | 1.6ps max.  |               |              |
| Start-up Time                                   |      | 10ms max.   |               |              |
| Linearity                                       |      | 10% max.  |               |              |
| Input Impedance                                 |      | 100MΩ min.  |               |              |
| Operating Temperature Range                     |      | -20~+70°C, -40~+85°C, or specify                  |               |              |
| Storage Temperature Range                       |      | -55~+125°C  |               |              |
| Packing unit                                    |      | 500 pcs./reel                                     |               |              |

## Dimensions



## Recommended Land Pattern [mm]

