

SMD Type

5X

[25.4×22.1×11.0 mm]

Waveform

Rectangular

Best Stability

±5 ppb

Voltage Control

Supply Voltage

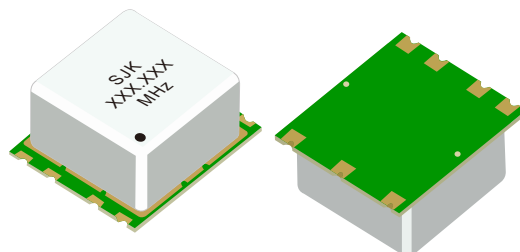
3.3V / 5.0V

Frequency Range

5MHz~40 MHz

Features

- Oven Controlled Crystal Oscillator (OCXO)
- Dimension 25.4×22.1×11.0 mm, surface mount package
- Frequency range from 5MHz to 40MHz.
- ±10ppb stability over -40°C to +85°C.
- SC-Cut Crystal.
- Voltage control (Electronic frequency tuning) is available.
- RoHS Compliant
- Applications: SDH/SONET, Base station, Digital switch, Test equipment, Synthesizer, Measuring equipment, etc.



Standard Specifications

5X (SMD 25.4×22.1×11.0 OCXOs)

| Parameter | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------------------|--------------------|-------------|--------------------|------|---|
| Output Frequency | 5 | - | 40 | MHZ | Standard frequencies are 10, 12.8, 19.2, 20, 25, 30.72MHz and more. |
| Wave Form | - | Rectangular | - | - | Please contact us for detail information |
| Level | - | HCMOS | - | - | |
| "1" Level | 1.4V+1V 2.5V+1V | - | - | V | |
| "0" Level | - | - | 1.4V-1V 2.5V-1V | | |
| Duty Cycle | 45 | 50 | 55 | % | @ +1.65V or +2.5V |
| Load | 15pF | | | | |
| Spurious | - | - | -60 | dBc | |
| Frequency stability Tolerance | -10 | - | +10 | ppb | |
| vs. Temperature | ±5ppb~±20 | | | ppb | |
| vs. Supply voltage | -0.5 | - | +0.5 | ppb | ±5% Change |
| vs. Load | -0.5 | - | +0.5 | ppb | |
| vs. Warm-up | -10 | - | +10 | ppb | In 3 minutes @ 25°C, reference to 1 hour |
| vs. Aging | - | - | - | - | |
| Daily | -0.5 | - | +0.5 | ppb | After 30 days continues operation |
| Yearly | -50 | - | +50 | ppb | |
| 10 Years | -0.4 | - | +0.4 | ppm | |



OCXO (Oven Controlled Crystal Oscillator)

SMD Type

5X

[25.4×22.1×11.0 mm]

Waveform

Rectangular

Best Stability

±5 ppb

Voltage Control

Supply Voltage

3.3V / 5.0V

Frequency Range

5MHz~40 MHz

Standard Specifications

5X (SMD 25.4×22.1×11.0 OCXOs)

| Parameter | Min. | Typ. | Max. | Unit | Test Condition | |
|--|--------------|-----------|-----------|--------|-----------------------------|---------------------------------|
| Phase noise | - | - | -115 | dBc/Hz | @ 10Hz | |
| | - | - | -130 | | @ 100Hz | |
| | - | - | -140 | | @ 1KHz | |
| | - | - | -150 | | @ 10KHz | |
| Electrical Frequency Adjustment | - | - | - | | | |
| Range | - | - | -0.5 | ppm | VCO@0 V | |
| | 0.5 | - | - | | VCO@ 5.0V | |
| Control | 0 | 1.4 / 2.0 | 2.8 / 4.0 | V | 3.3V or 5.0V supply voltage | |
| Slope | - | Positive | - | - | | |
| Input impedance | 100 | - | - | KΩ | | |
| Input Power | Voltage | 3.135 | 3.3 | 3.465 | V | 5.0V input voltage is available |
| | Current | - | - | -1000 | mA | @ turn on |
| | Steady State | - | - | 1.2 | W | @ ±25°C |
| Operating Temperature | -40 | - | +85 | °C | | |
| Storage Temperature | -40 | - | -85 | °C | | |

Dimensions And Pin-functions (Unit: mm)

Top View

Bottom View

Side View

Top View Suggested Layout

Pin Connections

| Pin No. | Connection |
|---------|-----------------------|
| 1 | Vco Input /NC |
| 2 | Reference Voltage /NC |
| 3 | Vcc |
| 4 | R.F. Output |
| 5 | Oven monitor /NC |
| 6 | NC |
| 7 | 0 Volts & Case |