Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
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**TCXO2520AO-26MHz-A-V**
2.5 x 2.0 x 0.8 mm SMD TCXO

## Features and Benefits

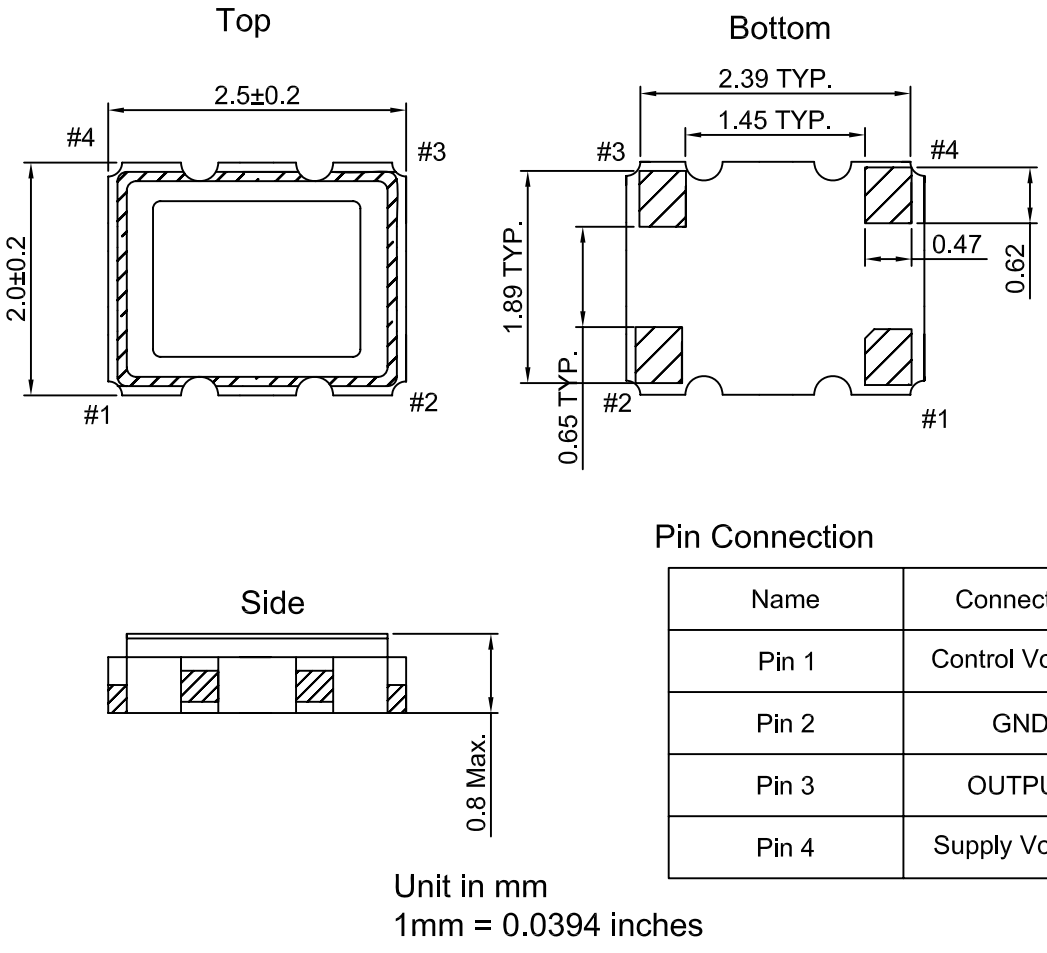
26MHz clipped sine wave output
2.5 mm x 2.0 mm x 0.8mm SMD package
±0.5 ppm frequency stability (over -30°C to +85°C)
2.8V supply voltage
1.5mA low power consumption

## Typical Applications

WIFI/WiMAX, WLAN
GPS
Mobile phone

## Mechanical Drawing & Pin Connections

**Drawing No:** MD160034-2




Pin Connection

| Name | Connection |
|---|---|
| Pin 1 | Control Voltage |
| Pin 2 | GND |
| Pin 3 | OUTPUT |
| Pin 4 | Supply Voltage |

Unit in mm
1mm = 0.0394 inches

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## Specifications

| Oscillator Specification | Sym | Condition | Value Min. | Value Typ. | Value Max. | Unit | Note |
|---|---|---|---|---|---|---|---|
| Nominal Frequency | $F_O$ | | | 26 | | MHz | |
| Output Waveform | | | | Clipped Sine Wave | | | |
| Output Level | | | 0.8 | | 1.2 | Vp-p | |
| Output Load | | | | 10Kohm//10pF | | | |
| Start Time | | 90% of final RF level in Vp-p | | | 2 | msec | |
| Harmonics | | | | | -5.0 | dBc | |
| **Power Supply** | | | | | | | |
| Supply Voltage | $V_{DD}$ | ±5% | | 2.8 | | V | |
| Supply Current | | | | | 1.5 | mA | |
| **Control Voltage** | | | | | | | |
| Control Voltage | | | 0.4 | 1.4 | 2.4 | V | |
| Pulling Range | | | ±9 | | ±15 | ppm/V | |
| | | | | | | | |
| | | | | | | | |
| **Frequency Stability** | | | | | | | |
| Frequency Tolerance | | Frequency at 25°C ±3°C, Vcon=1.5V | | | ±2 | ppm | |
| Frequency Stability Vs. Temperature | | From -30°C to +85°C Referenced to the midpoint between minimum and maximum frequency value | | | ±0.5 | ppm | |
| Static Temperature Hysteresis | | | | | ±0.6 | ppm | |
| Supply Voltage Change | | Supply voltage varied ±5% | | | ±0.1 | ppm | |
| Load Sensitivity | | ±5% load change | | | ±0.1 | ppm | |
| Aging | | at +25°C 1st year | | | ±1 | ppm | |
| Phase Noise | | @ 1KHz | | | -130 | dBc / Hz | |

| Environmental Conditions | Reference Standards | Test Condition |
|---|---|---|
| Operating Temperature Range | | -30°C to +85°C |
| Storage Temperature Range | | -40°C to +85°C |

**Note**

1. Touch the solder iron at 260°C +/-5°C onto the leads for 10 +/-2 sec max or touch the solder at 350°C +/-5°C onto the leads for 3+/-0.5 sec.
2. In the customer's reflow process, if it will remain some mechanical stress at the soldering terminals, also make some cracks on the soldering termination. Some cracks will cause open or short circuit and cause of thermal increasing or smoking. Don't make any excess mechanical stress to soldering points.
3. In case of giving a heavy shock to the products, it may make an open or short circuit and cause of thermal increasing and smoking. To avoid heavy shock impact applying to products is strictly required.

## RECOMMENDED IR REFLOW PROFILE