



Features and Benefits

- Frequency range: 10MHz
- Supply voltage: 3.3V
- Steady current: 50mA Max
- Output waveform: CMOS
- Frequency tolerance: ± 50 ppm
- Pulling range: ± 50 ppm
- Operating temperature: -40°C to $+85^{\circ}\text{C}$
- Size: 3.2x2.5x0.95mm

Typical Applications

- High-speed ethernet
- Fiber channel
- HDTV
- ATM
- Set-top box
- WiMAX
- Server
- SAS
- SATA

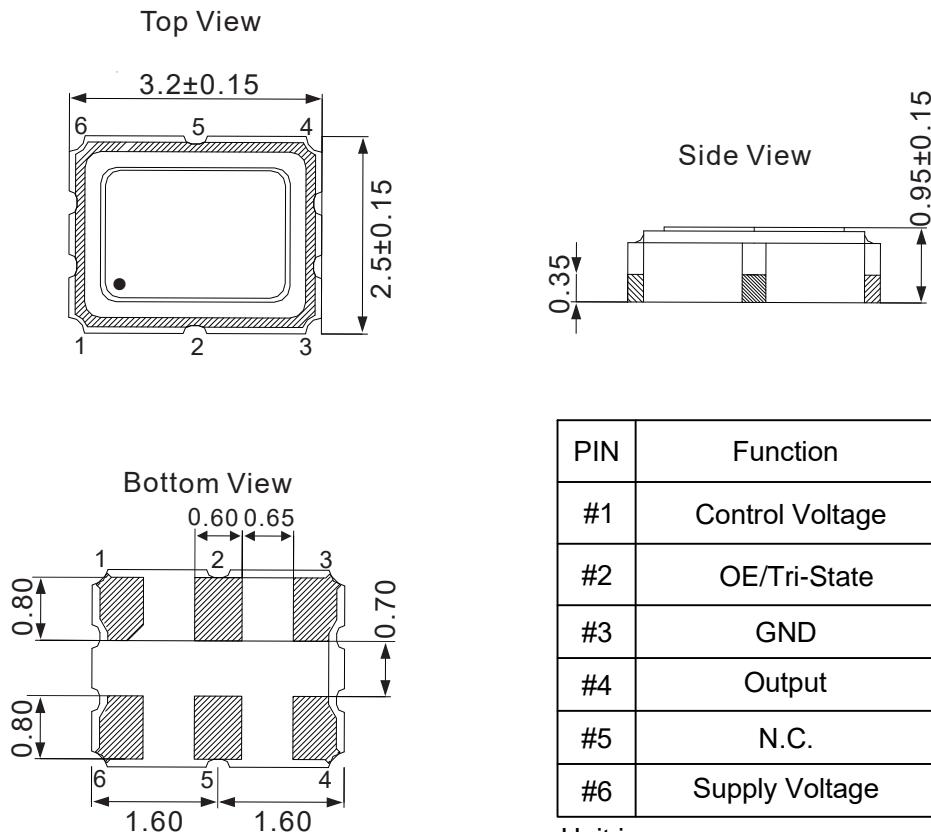
Description

The VCXO3225AL-CMOS-10MHz-221 is designed for applications where exceptional frequency stability and timing is required.

It has both excellent temperature performance and frequency stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No: MD240045-1



| PIN | Function |
|-----|-----------------|
| #1 | Control Voltage |
| #2 | OE/Tri-State |
| #3 | GND |
| #4 | Output |
| #5 | N.C. |
| #6 | Supply Voltage |

Unit in mm
1mm = 0.0394 inches



Specifications

| Oscillator Specification | Sym | Condition | Value | | | Unit | Note |
|---|-----------|-----------|-----------------|----------|-----------------|-----------|------|
| | | | Min. | Typ. | Max. | | |
| Frequency Range | F_{nom} | | | 10 | | MHz | |
| RF Output | | | | | | | |
| Signal Waveform | | | CMOS | | | | |
| Load | R_L | | 15 | | | pF | |
| H-Level Voltage | V_H | | 90% V_{cc} | | | V | |
| L- Level Voltage | V_L | | | | 10% V_{cc} | V | |
| Duty Cycle | | | 45 | | 55 | % | |
| Rise/Fall time | | | | | 5 | nS | |
| Power Supply | | | | | | | |
| Supply Voltage | V_{cc} | | | 3.3 | | V | |
| Start up Time | T_{up} | | | | 2 | mS | |
| Current | | | | | 50 | mA | |
| Frequency Adjustment Range | | | | | | | |
| EFC voltage | | | 0.3 | | 3.0 | V | |
| Electronic Frequency Control (EFC) | | | ± 50 | | | ppm | |
| Input Impedance | | | 1 | | | $M\Omega$ | |
| Frequency Stability | | | | | | | |
| Frequency Tolerance | | | | ± 50 | | ppm | |
| Environmental, Mechanical Conditions | | | | | | | |
| Operating temperature range | | | -40°C to +85°C | | | | |