



### Features and Benefits

- Frequency range: 10MHz
- Supply voltage: 3.3V
- Steady current: 50mA Max
- Output waveform: CMOS
- Frequency tolerance:  $\pm 25$ ppm
- Pulling range:  $\pm 50$ ppm
- Operating temperature: -20°C to +70°C
- Size: 3.2x2.5x0.95mm

### Typical Applications

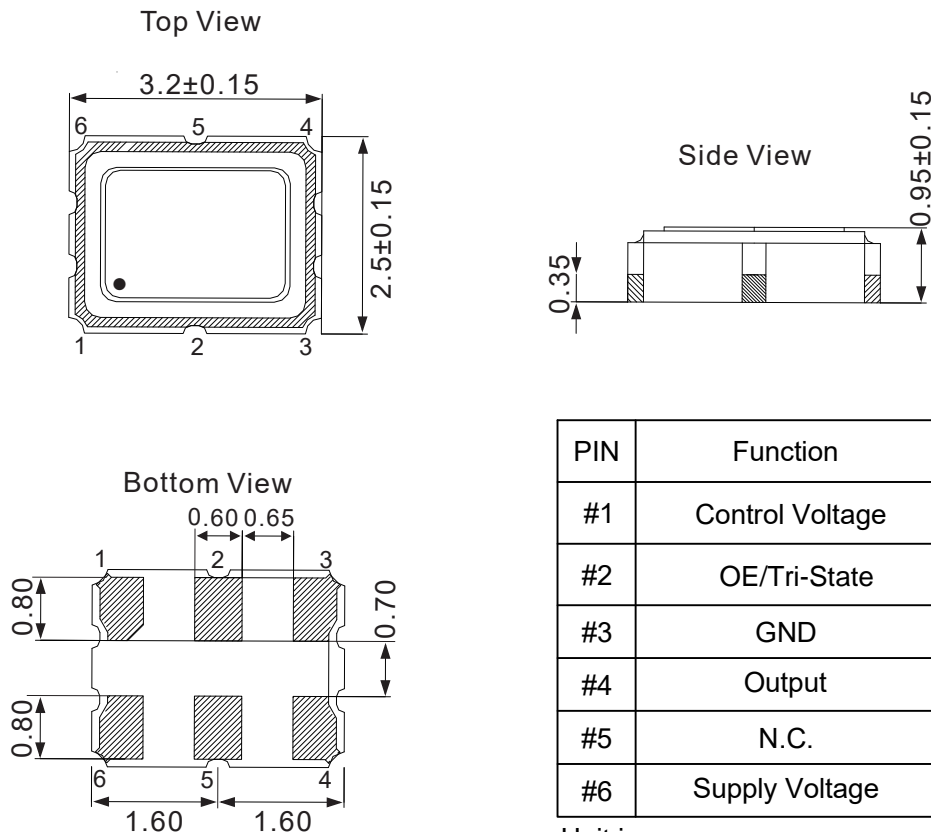
- High-speed ethernet
- Fiber channel
- HDTV
- ATM
- Set-top box
- WiMAX
- Server
- SAS
- SATA

### Description

The VCXO3225AL-CMOS-10MHz-111 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: **MD24004** !%



Unit in mm  
1mm = 0.0394 inches



**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	$F_{nom}$			10		MHz	
<b>RF Output</b>							
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	
<b>Power Supply</b>							
Supply Voltage	$V_{cc}$			3.3		V	
Start up Time	$T_{up}$				2	mS	
Current					50	mA	
<b>Frequency Adjustment Range</b>							
EFC voltage			0.3		3.0	V	
Electronic Frequency Control (EFC)			$\pm 50$			ppm	
Input Impedance			1			$M\Omega$	
<b>Frequency Stability</b>							
Frequency Tolerance				$\pm 25$		ppm	
<b>Environmental, Mechanical Conditions</b>							
Operating temperature range			-20°C to +70°C				