



Features and Benefits

Frequency range: 10MHz
Supply voltage: 3.3V
Steady current: 50mA Max
Output waveform: LVPECL
Frequency tolerance: ±50ppm
Pulling range: ±50ppm
Operating temperature: -40°C to +85°C
Size: 3.2x2.5x0.9mm

Typical Applications

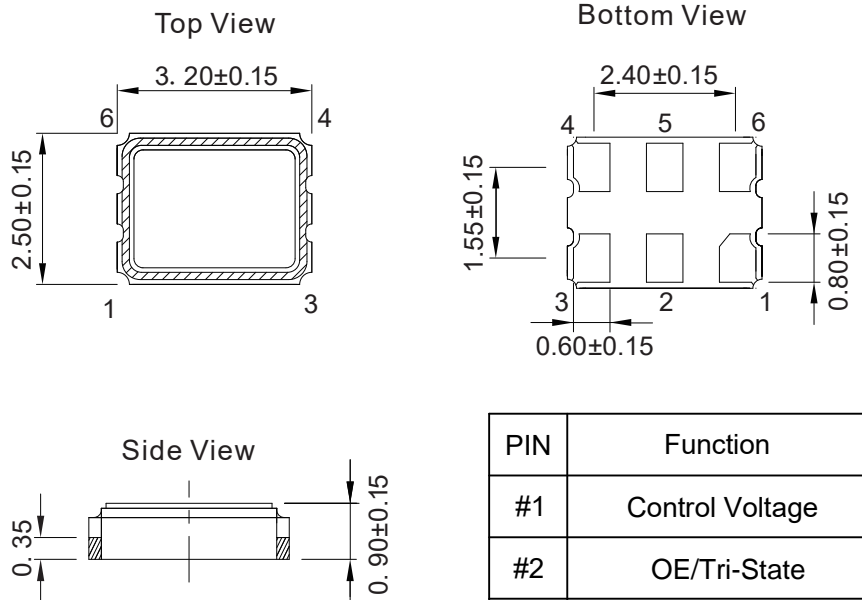
High-speed ethernet
Fiber channel
HDTV
ATM
Set-top box
WiMAX
Server
SAS
SATA

Description

The VCXO3225AL-LVPECL-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: MD240045-2



PIN	Function
#1	Control Voltage
#2	OE/Tri-State
#3	GND
#4	Output
#5	Complementary Output
#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			LVPECL				
Output Load	R_L		50ohm into Vcc-2V				
H-Level Voltage	V_H		$V_{cc}-1.025V$			V	
L- Level Voltage	V_L				$V_{cc}-1.62V$	V	
Duty Cycle			45		55	%	
Rise/Fall time					1	nS	
Power Supply							
Supply Voltage	V_{cc}			3.3		V	
Start up Time	T_{up}				10	mS	
Current					50	mA	
Frequency Adjustment Range							
EFC voltage			0.3		3.0	V	
Electronic Frequency Control (EFC)			± 50			ppm	
Input Impedance			1			$M\Omega$	
Linearity					10	%	
Frequency Stability							
Frequency Tolerance				± 50		ppm	
Environmental, Mechanical Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					