Features and Benefits

Frequency range: 16MHz
Supply voltage: 3.3V
Steady current: 6mA Max
Output waveform: CMOS
Frequency stability vs. operating temperature: ±1ppm
Aging: ±1ppm per year
Phase noise@1KHz: -135dBc/Hz
Operating temperature: -40°C to +85°C
Size: 5.1x3.4x2mm
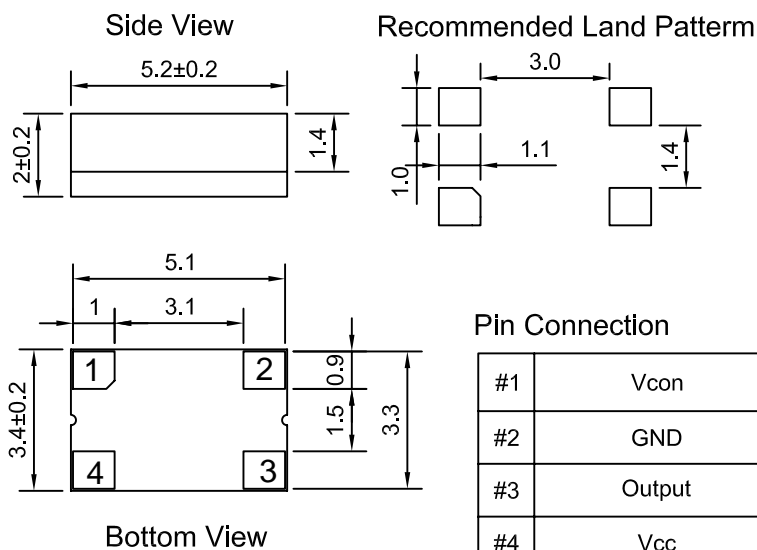
Typical Applications

UHF Synthesizers
SATCOM System
Portable Microwave Applications

Description

TCXO5234CL-16MHz-A-V offers wide temperature operation from -40°C to +85°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No: MD210016-1

Side View

5.2±0.2
2±0.2
1.4

Recommended Land Pattern

3.0
1.0
1.1
1.4

Bottom View

5.1
1
3.1
3.4±0.2
0.9
1.5
3.3

Pin Connection

Pin	Function
#1	Vcon
#2	GND
#3	Output
#4	Vcc

Unit in mm
1mm = 0.0394 inches

Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
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TCXO5234CL-16MHz-A-V

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}			16		MHz	
Output			CMOS				
Output Level			$V_{OH} \geq 2.4$ $V_{OL} \leq 0.4$			V	
Output load			15 pF				
Duty Cycle		@25℃±5 ℃	45		55	%	
Rise/Fall		@25℃±5 ℃		6		ns	
Power Supply							
Voltage	V_{cc}			3.30		V	
Current Consumption		@25℃±5 ℃，Still Air			6	mA	
Frequency Stability							
Vs temperature		-40°C to +85°C			±1	ppm	
Vs supply voltage changes		±5%,@25℃±5 ℃			±0.2	ppm	
Vs load changes		±5%,@25℃±5 ℃			±0.2	ppm	
Tolerance		At shipment, nominal EFC			±0.5	ppm	
Aging per day		After 30 days of operation			±0.1	ppm	
First Year Aging					±1	ppm	
Phase noise		1 KHz			-135	dBc/Hz	@25℃±5 ℃
Environmental Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-50°C to +125°C; Off working status					