



Features and Benefits

Frequency range: 37.4MHz
Supply voltage: 3.3V
Steady current: 15mA Max
Output waveform: LVCMOS
Frequency stability vs. operating temperature: ±0.5ppm
Aging: ±1.0ppm per year
Phase noise@1KHz: -130dBc/Hz
Operating temperature: -20°C to +70°C
Size: 7.0x5.0x1.9mm

Typical Applications

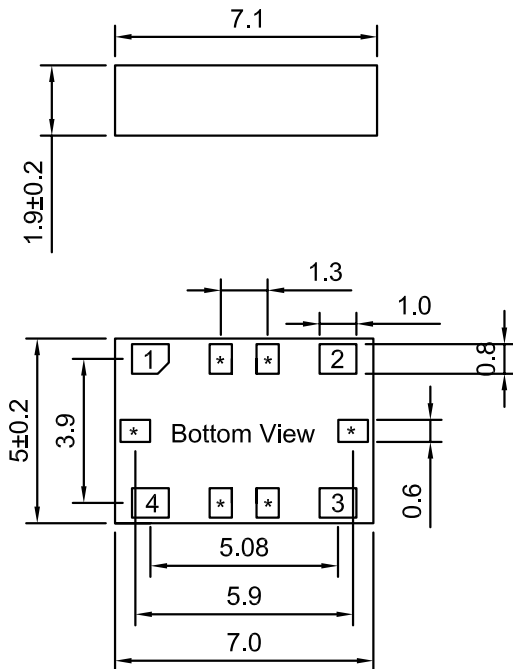
Base Stations
Instrumentations
Synthesizer
SDH/SONET
Medical Electronics

Description

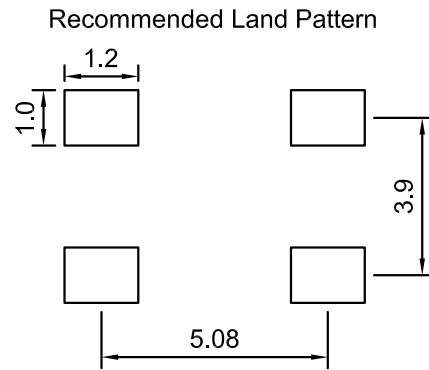
TCXO7500CL-37.4MHz-A offers wide temperature operation from -20°C to +70°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

Drawing No: A 8 & % \$ \$ & %



*Note:
1. The pins with "*" are for factory test.
2. Leave pin1 unconnected if Vcon is not used



PIN	FUNCTION
#1	Control voltage
#2	GND
#3	RF output
#4	Supply voltage

Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F _{nom}			37.4		MHz	
Output			LVCMOS				
Output Level				V _{OH} ≥ 2.4 V _{OL} ≤ 0.4		V	
Output load				15 pF			
Duty Cycle		(V _{OH} - V _{OL})/2	45		55	%	
Rise/Fall					6	ns	
Power Supply							
Voltage	V _{cc}			3.30		V	
Current Consumption			5		15	mA	
Frequency Stability							
Vs temperature		-20°C to +70°C			±0.5	ppm	
Vs supply voltage changes		±5%			±0.1	ppm	
Initial Tolerance		At shipment, nominal EFC	±0.05		±0.5	ppm	@25°C
First Year Aging					±1.0	ppm	
Phase noise		1 KHz			-130	dBc/Hz	
Environmental Conditions							
Operating temperature range		-20°C to +70°C					
Storage temperature range		-55°C to +125°C					