Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

TCXO7500BL-10.23MHz-A-V
10.23MHz CMOS TCXO

Features and Benefits

Frequency range: 10.23MHz
Supply voltage: 3.3V
Steady current: 26mA Typ.
Output waveform: CMOS
Frequency stability vs. operating temperature: ±1.5ppm
Aging: ±2.0ppm first year
Operating temperature: -40°C to +85°C
Size: 7.0x5.0x2.5mm

Typical Applications

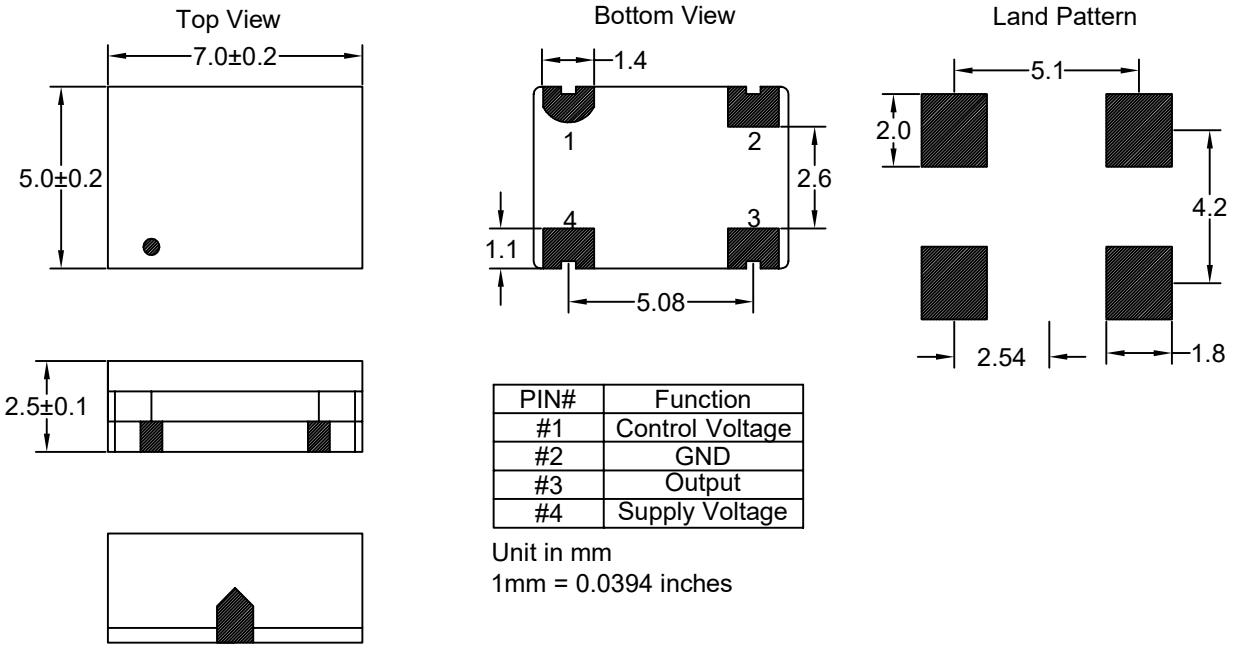
Frequency reference for real time clocks (RTCs)
Portable instruments
Timing synchronization for networks, servers, hubs, routers and switches
Smart metering, data loggers
GPS receivers. Telematics

Description

TCXO7500BL-10.23MHz-A-V is the 10.23MHz CMOS output TCXO.
The frequency stability can less than ±1.5PPM from -40°C to +85°C operating temperature.
It can be widely used in the portable communication device.

Mechanical Drawing & Pin Connections

Drawing No: MD220011-2



PIN#	Function
#1	Control Voltage
#2	GND
#3	Output
#4	Supply Voltage

Unit in mm
1mm = 0.0394 inches

Dynamic Engineers Inc.
2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

TCXO7500BL-10.23MHz-A-V
10.23MHz CMOS TCXO

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency	F_{nom}			10.23		MHz	
RF Output							
Signal Waveform				CMOS			
Load				15		pF	
H-Level Voltage	V_H		90%Vcc				
L- Level Voltage	V_L				10%Vcc		
Rise and fall time		10% ↔ 90% waveform		1.5	3.0	nS	
Duty Cycle		±5%		50		%	
Startup time					5	ms	
Power Supply							
Supply Voltage	V_{cc}	±5%		3.3		V	
Current consumption				26		mA	
Current with output disabled				18		mA	
Frequency Stability							
Versus Operating Temperature Range		-40°C to +85°C		±1.5		ppm	Ref to +25°C
Versus supply voltage		±5% change			±0.2	ppm	
Versus load		±10% change			±0.2	ppm	
Aging 1st Year					±2.0	ppm	
Initial calibration tolerance		+25°C±2°C			2.0	ppm	At the shipment
Control Voltage Function on PAD 1							
Control Voltage Range			0.5	1.5	2.5	V	
Frequency Pulling Range			±8			ppm	
Environmental specifications							
Operation temperate			-40°C to +85°C				
Storage temperature			-55°C to +150°C				