TCXO7500CL-40MHz-A-V

Features and Benefits

Frequency range: 40MHz Supply voltage: 3.3V Steady current: 8mA Max Output waveform: CMOS

Frequency stability vs. operating temperature: ±0.5ppm

Aging: ±1ppm per year

Phase noise@1KHz: -125dBc/Hz Operating temperature: -30°C to +85°C

Size: 7.1x5.0x2.2mm

Typical Applications

UHF Synthesizers SATCOM System Portable Microwave Applications

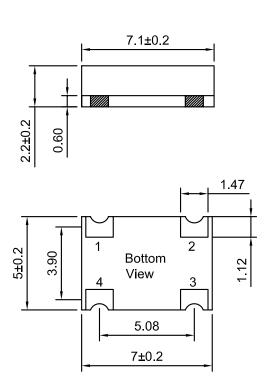
Description

TCXO7500CL-40MHz-A-V offers wide temperature operation from -30°C to +85°C with outstanding frequency stability and low phase noise performance.

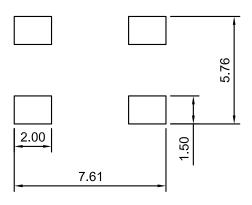
Mechanical Drawing & Pin Connections

Drawing No:

MD210019-1



Recommended Land Pattern



PIN	FUNCTION
#1	Control voltage
#2	GND
#3	RF 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

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Specifications

Oscillator Specification	Sum	Condition	Value			Unit	Note
	Sym	Condition	Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}			40		MHz	
Output				CMOS			
Output Level			V _{OH} ≥ 2.4 V _{OL} ≤ 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°C \pm 5°C, Still Air			8	mA	
Control Voltage Range			0.5		2.5	V	
Tuning Frequency Range			±5.0			ppm	
Frequency Stability							
Vs temperature		-30°C to +85°C			±0.5	ppm	
Vs supply voltage changes		±5%,@25℃±5 ℃			±0.2	ppm	
Vs load changes		±5%,@25℃±5 ℃			±0.2	ppm	
Initial Tolerance		At shipment, nominal EFC			±1.0	ppm	
Short term stability		1sec		1.5E-10			
Aging per day		After 30 days of operation			±0.01	ppm	
First Year Aging					±1.0	ppm	
Phase noise		1 KHz			-125	dBc/Hz	@25 ℃±5 ℃
Environmental Conditions							
Operating temperature range	-30°C to						
Storage temperature range	-55°C to	+125°C; Off working status					