High precision TCXO

Features and Benefits

Frequency range: 10-26MHz Supply voltage: 1.8V/2.5V/3.3V Steady current: 1.5-2.5mA Max Output waveform: Clipped Sinewave

Frequency stability vs. operating temperature: ±2.5ppm

Aging: ±1.0ppm per year

Phase noise@1KHz: -135dBc/Hz Operating temperature: -30°C to +75°C

Size: 7.0x5.0x1.65mm

Typical Applications

Indoor Positioning System

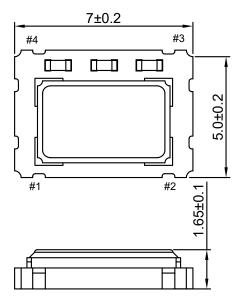
Description

TCXO7500AT offers wide temperature operation from -30°C to +75°C with outstanding frequency stability and low phase noise performance.

Mechanical Drawing & Pin Connections

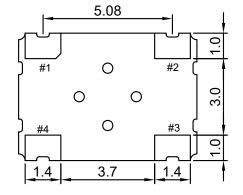
Drawing No:

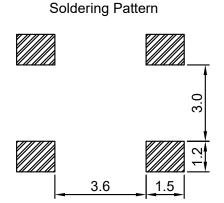
MD220039-1



PIN	Function
#1	TCXO: GND
	VC-TCXO: Vcontrol
#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 TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

TCXO7500AT

High precision TCXO

Specifications

Oscillator	C	Condition	Value			11	Maria
Specification	Sym		Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}		10		26	MHz	
RF Output							
Signal Waveform			Clipped sinewave				
Output Level			0.8			Vp-p	
Output Load			10Kohm//10pF				
Power Supply							
Supply Voltage	Vcc		1.8, 2.5, 3.3			V	
		6MHz-19.99MHz			1.5	mA	
Current Consumption		20MHz-31.99MHz			2.0	mA	
•		32MHz-45.00MHz			2.5	mA	
Frequency Adjustment Range							
Absolute Pulling Range (APR)			±8			ppm	
Control Voltage	V _c		0.5	1.5	2.5	V	
Frequency Stability							
Frequency stability vs. temperature					±2.5	ppm	
Frequency stability vs. voltage change					±0.2	ppm	
Frequency stability vs. load change					±0.2	ppm	
Frequency Tolerance		at 25℃			±0.5	ppm	
Aging 1 st Year					±1.0	ppm	
Phase Noise		1kHz		-135		dBc	
Environmental, Mechanical Conditions							
Operating temperature range	-30°C to +75°C						
Storage temperature range -40°C to +85°C							