Dynamic Engineers Inc.

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

TCXO3225AT High precision TCXO

Features and Benefits

Frequency range: 10-40MHz Supply voltage: 1.8V/2.5V/3.3V Steady current: 1.5-1.7mA 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: 3.2x2.5x0.9mm

Typical Applications

Indoor Positioning System

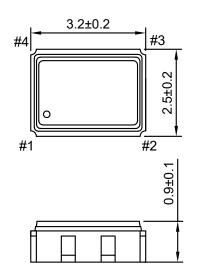
Description

TCXO3225AT 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:

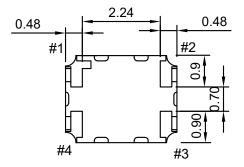
MD220044-1



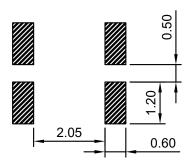
PIN	Function
#1	TCXO: GND or N.C.
	VC-TCXO: Vcontrol
#2	GND
#3	Output
#4	Vcc

Unit in mm

1mm = 0.0394 inches



Soldering Pattern





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Specifications

Oscillator	Sym	Condition	Value			11	Nere
Specification			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}		10		40	MHz	
RF Output							
Signal Waveform			Clipped sinewave				
Output Level			0.8			Vp-p	
Output Load				10Kohm//10	рF		
Power Supply							
Supply Voltage	Vcc		1.8, 2.5, 3.3			V	
Current Consumption		10MHz-29.99MHz			1.5	mA	
Ourient Consumption		30MHz-40.00MHz			1.7	mA	
Frequency Adjustment Range							
Absolute Pulling Range (APR)		Vcc=1.8V	±8		±13	ppm	
Absolute Fulling Kange (AFK)		Vcc=2.5V or 3.3V	±9		±15	ppm	
Control Voltage	V _c	Vcc=1.8V	0.1	0.9	1.7	V	
	v _c	Vcc=2.5V or 3.3V		0.5Vcc ± 1V		V	
Frequency Stability							
Frequency stability vs. temperature					±2.5	ppm	
Frequency stability vs. voltage change					±0.3	ppm	
Frequency stability vs. load change					±0.2	ppm	
Frequency Tolerance		at 25℃			±1.5	ppm	
Aging 1 st Year					±1.0	ppm	
Phase Noise		1kHz		-135		dBc/Hz	
Environmental, Mechanical Conditions							
perating temperature range -30°C to +75°C							
Storage temperature range -40°C to +85°C							