TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

TCXO2522BE-400MHz-A-V

#### **Features and Benefits**

Frequency range: 400MHz Supply voltage: 5.0V Steady current: 100mA Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±1.0ppm

Aging: ±0.5ppm per year

Phase noise@100KHz: -145dBc/Hz Operating temperature: -40°C to +85°C

Size: 25.4x22x12.8mm

## **Typical Applications**

**UHF Synthesizers** SATCOM System Portable Microwave Applications

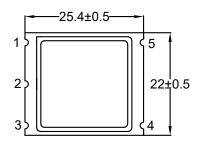
#### **Description**

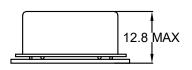
TCXO2522BE-400MHz-A-V offers wide temperature operation with outstanding frequency stability and low phase noise performance.

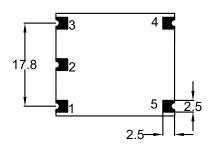
## **Mechanical Drawing & Pin Connections**

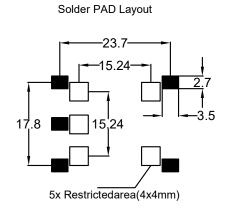
**Drawing No:** 

MD240052-1









#1	Control Voltage
#2	GND
#3	Supply Voltage
#4	Output
#5	GND

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

# TCXO2522BE-400MHz-A-V

400MHz SMD Sinewave TCXO

## **Specifications**

Oscillator Specification	Cross	Condition	Value			Unit	Note
	Sym		Min.	Тур.	Max.		
Frequency	F <sub>nom</sub>			400		MHz	
RF Output							
Signal Waveform				S	inewave		
Level			1.0		2.0	Vp-p	
Sub-harmonics					-40	dBc	
Load				50		ohm	
Power Supply		1					1
Supply Voltage	V <sub>cc</sub>	±5%		5.0		V	
Input Current					100	mA	
Frequency Adjustment Range							
Control Voltage			0.5	2.5	4.5	V	
Frequency Pulling Range			±5.0			ppm	
Linearity					±10	%	
Frequency Stability							
Total stability		including temp. stability, supply&load change, and 20years aging			±5.0	ppm	
Versus Operating Temperature Range		-40°C to +85°C			±1.0	ppm	
Tolerance		at +25°C			±1.0	ppm	
Versus supply voltage		±5% change			±0.1	ppm	
Versus Load		±10% change			±0.1	ppm	
Aging 1st Year					±0.5	ppm	
Aging 20 Years		1101			±2.5	ppm	
Phase noise		1KHz			-120	dBc/Hz	
		10KHz			-135	dBc/Hz	4
		100KHz			-145	dBc/Hz	4
		1MHz 10MHz			-145 -145	dBc/Hz dBc/Hz	-
Environmental, Mechanical Conditions		I OIVII IZ			-170	ubo/112	
Operating temperature range	-40°C to +	-85°C					
Storage temperature range	-45°C to +						