

## Dynamic Engineers Inc.

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

**Drawing No:** 

A8&\$\$\$((!%

### **Features and Benefits**

Typical 2.5 x 2.0 x 0.7 mm ceramic SMD package For automatic assembly Compactness and lightweight VCTCXO available Low thickness

#### **Typical Applications**

GPS WiMAX/WLAN Mobile Phone

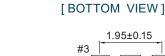
#### Description

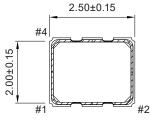
TCXO2520BM-40MHz-A-V offers low phase noise, all in a compact package to suit the different communication needs.

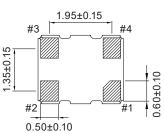
#### **Mechanical Drawing & Pin Connections**

#### [TOP VIEW]

[



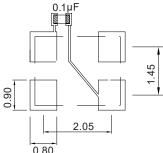




SIDE VIEW ]	1
0.04	-9-
52±(	
0	0

Pin#	Function
1	VCON
2	GND
3	Output
4	VDD

Solder PAD Layout



Unit in mm 1mm = 0.0394 inches

To ensure optimal oscillator performance, place a by-pass capacitor of  $0.1 \mu F$  as close to the part as possible between Vdd and GND pads.

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# **Specifications**

Oscillator	<b>C</b> 1111	Condition		Value			
Specification	Sym		Min.	Тур.	Max.	Unit	Note
Operational Frequency	Fnom			40		MHz	
RF Output							
Signal Waveform				Clipped sine wave			
Output Level	VL		0.8			Vp-p	
Load				10 KΩ // 10pF			
Power Supply							
Supply Voltage			1.71	1.8	1.89	V	
Start-up Time					2	ms	
Current Consumption					2.0	mA	
Vc Input Impedance			500			KΩ	
Frequency Adjustment Range							
Absolute Pulling Range (APR)			±5.0			ppm	
Control voltage	Vc		0.3		1.5	V	
Frequency Stability							
Frequency stability vs. temperature					0.5	ppm	
Frequency Tolerance					±2.0	ppm	
Vs Supply Voltage (±5%) change					±0.2	ppm	
Vs Load (±10%) change					±0.2	ppm	
Vs Aging (@1st year)					±1.0	ppm	
		100Hz		-115		dBc	
SSB Phase noise		1kHz		-135		dBc	
		10kHz		-148		dBc	
Environmental, Mechanical Conditions							
Operating temperature range	-20°C to 70°C						
Storage temperature range	-55°C to 125	°C					

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