



### 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

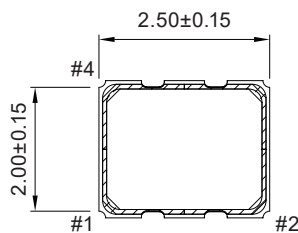
### Description

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

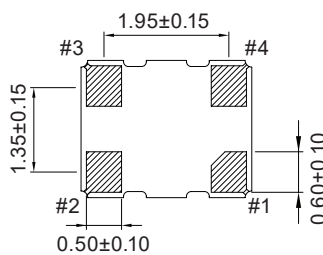
### Mechanical Drawing & Pin Connections

Drawing No: A8 &\$\$\$ ( !%

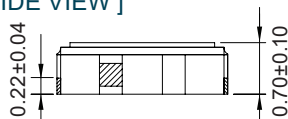
[ TOP VIEW ]



[ BOTTOM VIEW ]

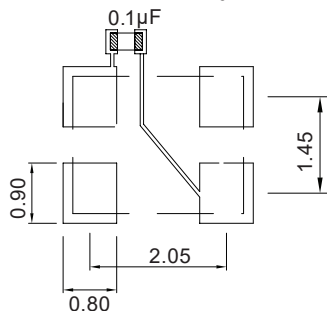


[ SIDE VIEW ]



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 0.1µF as close to the part as possible between Vdd and GND pads.



## Specifications

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