



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

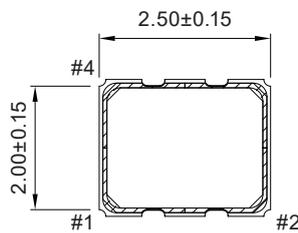
Description

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

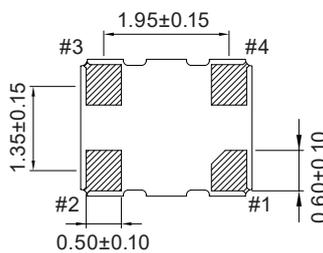
Mechanical Drawing & Pin Connections

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

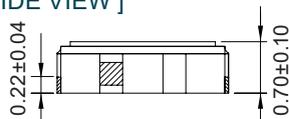
[TOP VIEW]



[BOTTOM VIEW]

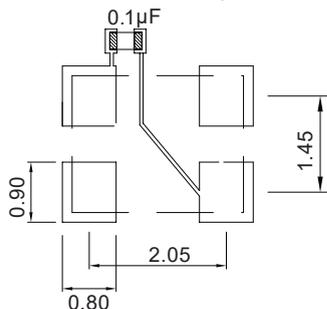


[SIDE VIEW]



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	
RF Output							
Signal Waveform			Clipped sine wave				
Output Level	V _L		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	V _c		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	
SSB Phase noise		100Hz		-115		dBc	
		1kHz		-135		dBc	
		10kHz		-148		dBc	
Environmental, Mechanical Conditions							
Operating temperature range			-40°C to 85°C				
Storage temperature range			-55°C to 125°C				