

## Elaborations

- **Small**
- **Low power consumption**
- **Instant available**
- **High stability**

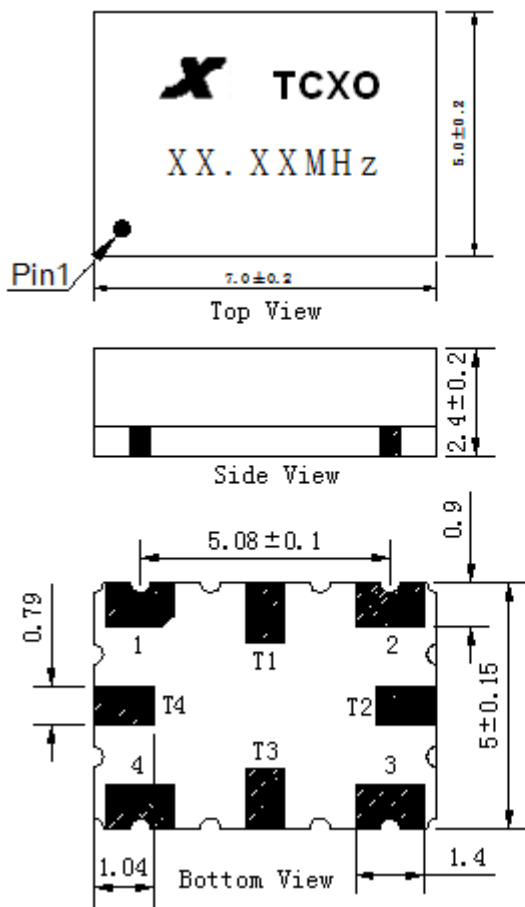
## Applications

- **Base stations**
- **Communications**
- **DSL/ADSL**
- **Femtocell**
- **IP timing**
- **LTE networks**
- **Precision GPS**
- **WiMAX/WiBro**
- **WLAN**
- **GPS**
- **Handset**
- **SONET/SDH**
- **Satellite Communication**

● Electrical Characteristics	
Description	Parameter
<b>Oscillator Output</b>	
Nominal Frequency	1.2~200MHz
Output Waveform	Sinewave、HCMOS、Clipped Sinewave
<b>Signal(Optional)</b>	<b>Sinewave</b>
Level	+0dBm min
Harmonics Suppression	-30dBc max
Spurious Suppression	-60dBc max
Load	50Ω
<b>Signal (Optional)</b>	<b>HCMOS</b>
Output High Voltage	V <sub>OH</sub> : 2.4V min
Output Low Voltage	V <sub>OL</sub> : 0.4V max
Rise / Fall Time (10%~90%)	6ns max
Duty Cycle	45% ~55%@50%
Load	15pF
<b>Signal (Optional)</b>	<b>Clipped Sinewave</b>
Peak to peak	0.8V min
Load	10kΩ//10pF
<b>Supply Voltage</b>	
Operation Voltage	3.3V±5%、5.0V±5%
Current consumption	15mA max@25°C
<b>Frequency Characteristics</b>	
Frequency Tolerance	±1.0ppm max @25°C±3°C
Frequency Stability over Operating Temperature Range	±0.28ppm max @-20°C~+70°C
	±0.5ppm max @-40°C~+85°C

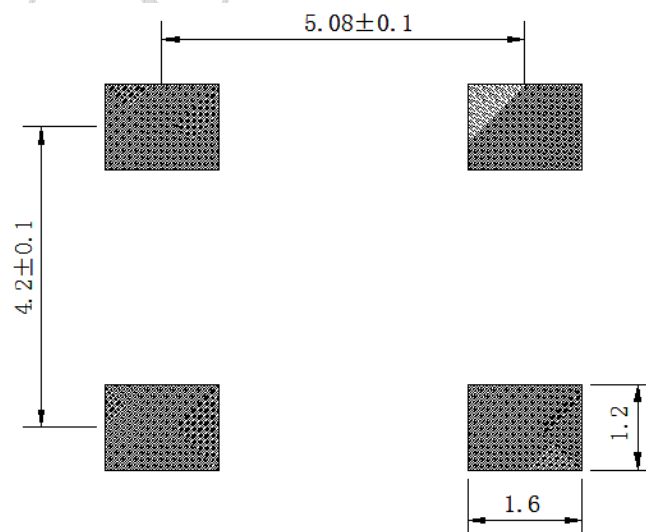
		±1.0ppm max @-40°C~+85°C
		±2.0ppm max @-40°C~+85°C
Frequency Stability / Supply Voltage		±0.2ppm max @Vs±5%
Frequency Stability/ Load		±0.2ppm max @Load±5%
Aging Tolerance Per Day		±0.02ppm max
Aging Tolerance 1 Year		±1.0ppm max
<b>Phase Noise</b>		
Phase Noise (Typical) 10MHz@25°C	10Hz	-95dBc/Hz
	100Hz	-120dBc/Hz
	1KHz	-138dBc/Hz
	10KHz	-145dBc/Hz
	100KHz	-150dBc/Hz
<b>Frequency Tuning</b>		
Voltage Control Characteristics	Control voltage Range	0Vdc ~5.0Vdc (Center voltage=2.5Vdc)@Vs=5.0Vdc
		0Vdc ~3.3Vdc (Center voltage=1.65Vdc)@Vs=3.3Vdc
	Slope	Positive
	Linearity	10% max
	Adjustment Range	±8.0ppm min
	Input Impedance	100KΩ min
<b>Environmental Information</b>		
Vibration		IEC 68-2-06 test Fc, 10g acceleration, 10 - 2000Hz, 0.75mm displacement./severity 500 / 10
Shock		IEC 68-2-27 test Ea, Half sine 100g 6ms / 3 per direction. / severity 100A
Storage Temperature range		-55°C~+105°C

● Mechanical Structure(mm)

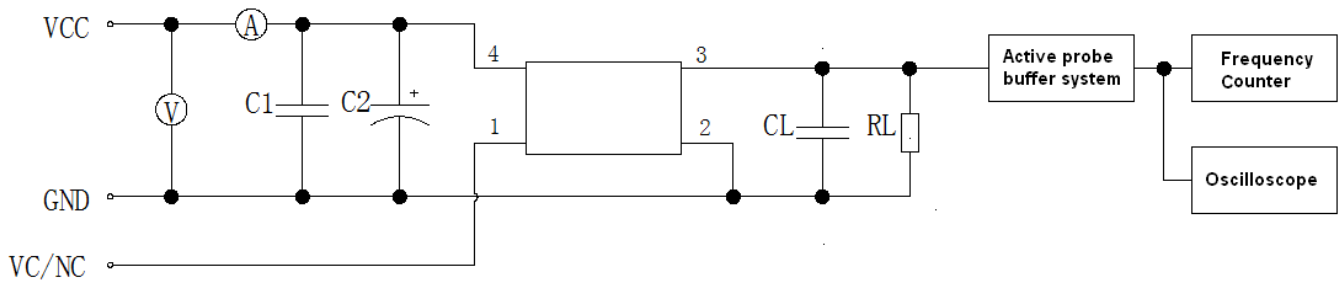


Pin Connections	
T1, T2 T3, T4	NC
1	VC/NC
2	Ground
3	Output
4	Supply Voltage Input

● Recommended Pad(mm)

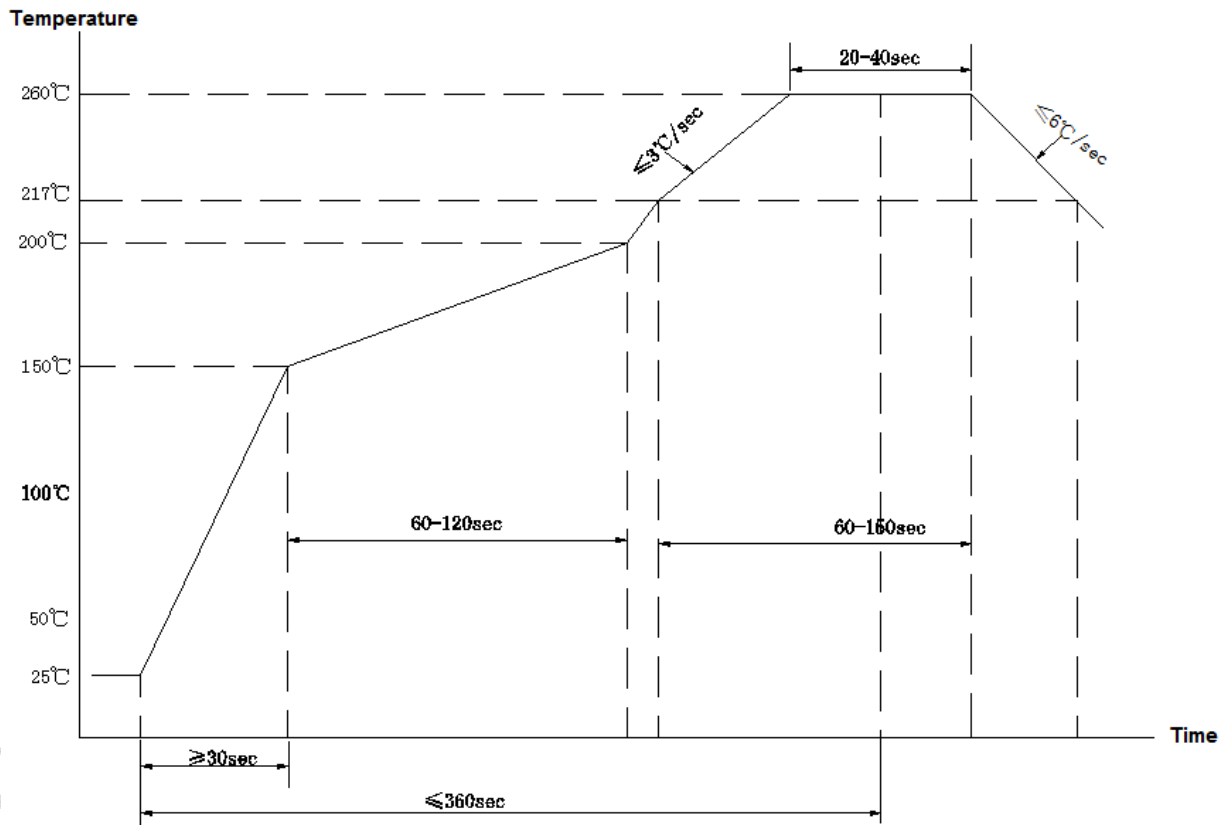


● Testing circuit diagram



Note:  $C1=0.1\mu\text{F}$ ;  $C2=10\mu\text{F}$ ;  
 Clipped Sinewave:  $CL=10\text{pF}$ ,  $RL=10\text{K}\Omega$ ;  
 Sinewave:  $CL=\text{NC}$ ,  $RL=50\Omega$ ;  
 HCMOS:  $CL=15\text{pF}$ ,  $RL=\text{NC}$ ;

● Reflow Soldering Curve (RoHS)



● Type Designation Information

