

# TX7-503

SMD TCXO  
Clipped sine wave

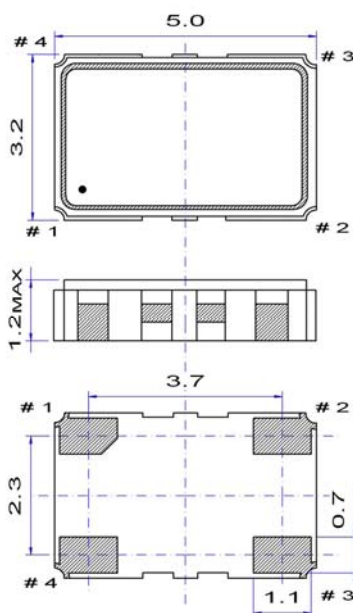
QuartzCom  
the communications company



## Features

- Applications: mobile communications, GPS, instrumentation
- Frequency range up to 40 MHz
- Tight frequency stability vs. temperature
- Highly shock and vibration resistant

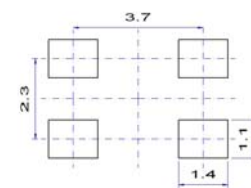
Parameter	Specification						
Frequency range	10 ~ 40 MHz						
Standard frequencies	10.0, 12.8, 13.0, 14.4, 16.0, 19.2, 20.0, 24.0, 25.0, 38.4 & 40.0 MHz						
Frequency stability:							
vs. temperature	<table border="0"> <tr> <td>≤ ±0.5 ~ ±2.5 ppm</td> <td>10.0 ~ 40.0 MHz</td> <td>-40 ~ +85 °C</td> </tr> <tr> <td>≤ ±0.1 ~ ±0.28 ppm</td> <td>10.0 ~ 26.0 MHz</td> <td>-20 ~ +70 °C</td> </tr> </table>	≤ ±0.5 ~ ±2.5 ppm	10.0 ~ 40.0 MHz	-40 ~ +85 °C	≤ ±0.1 ~ ±0.28 ppm	10.0 ~ 26.0 MHz	-20 ~ +70 °C
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≤ ±0.1 ~ ±0.28 ppm	10.0 ~ 26.0 MHz	-20 ~ +70 °C					
vs. supply change	≤ ±0.2 ppm      ±5 %						
vs. load change	≤ ±0.2 ppm      ±5 %						
vs. aging	≤ ±1.0 ppm      1 <sup>st</sup> year						
Frequency tolerance ex. factory	≤ ±0.5 ppm      @ +25 °C						
Supply voltage	+2.8 ~ +5.0 V						
Supply current	1.5 ~ 3 mA						
Output signal	> 0.8 Vp-p      clipped sine wave						
Output load	10 kΩ // 10 pF						
Tri-state function	<table border="0"> <tr> <td>pin #1 high or open</td> <td>pin #3 →</td> <td>oscillation</td> </tr> <tr> <td>pin #1 low</td> <td>pin #3 →</td> <td>high impedance</td> </tr> </table>	pin #1 high or open	pin #3 →	oscillation	pin #1 low	pin #3 →	high impedance
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pin #1 low	pin #3 →	high impedance					
Phase noise @ 20 MHz carrier frequency	-145 dBc/Hz      @ 10 kHz						
Operating temperature range	<table border="0"> <tr> <td>-20 ~ +70 °C</td> <td>commercial application</td> </tr> <tr> <td>-40 ~ +85 °C</td> <td>industrial application</td> </tr> </table>	-20 ~ +70 °C	commercial application	-40 ~ +85 °C	industrial application		
-20 ~ +70 °C	commercial application						
-40 ~ +85 °C	industrial application						
Storage temperature range	-55 ~ +125 °C						
Packaging units	tape & reel      1'000 or 2'500 pieces						
Customer specifications on request							



## Pin function

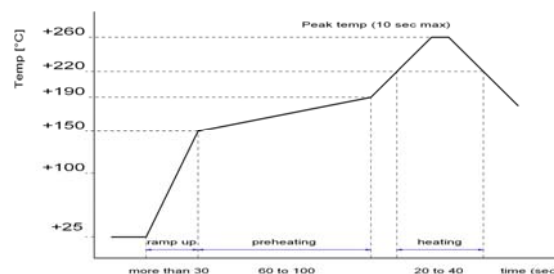
- # 1 Tri-state or not connected
- # 2 GND
- # 3 Output
- # 4 Vdc

## Example for solder pattern



Do not design any conductive path between the pattern

## Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

31 Oct. 10

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ISO 9001  
BUREAU VERITAS  
Certification

