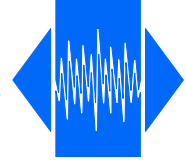


# VT7-302

SMD VC-TCXO  
Clipped sine wave

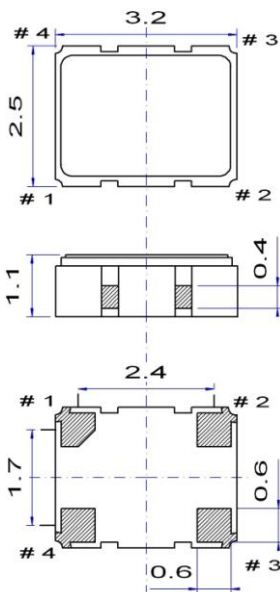
**QuartzCom**  
the communications company



## Features

- Applications: mobile communications, GPS
- Small, low profile package: 3.2 x 2.5 x 1.0 mm
- Output signal clipped sine wave
- Low phase noise

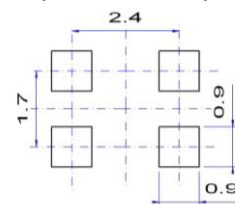
Parameter	Specification	
Frequency range	10 ~ 40 MHz	
Standard frequencies	10.0, 12.8, 16.384, 19.2, 20.0, 24.0, 25.0, 26.0, 38.4 & 40.0 MHz	
Frequency stability:		
vs. temperature	≤ ±0.5 ~ ±2.5 ppm	
vs. supply change	≤ ±0.2 ppm	±5 %
vs. load change	≤ ±0.2 ppm	±5 %
vs. aging	≤ ±1.0 ppm	1 <sup>st</sup> year
Frequency slope of perturbations	≤ ±0.2 ppm/°C	frequency measurement every 2 °C
Static temperature hysteresis	≤ ±0.6 ppm	
Frequency tolerance ex. factory	≤ ±1.0 ppm	@ +25 °C
Supply voltage	+2.4 ~ +5.0 V	
Supply current	< 2.0 mA	
Output signal	> 0.8 Vp-p	clipped sine wave
Output load	10 kΩ // 10 pF	
Frequency pulling range	±5 ~ ±10 ppm	
Voltage control	+1.5 V	±1.0 V
Phase noise @ 19.2 MHz carrier frequency	-145 dBc/Hz	@ 10 kHz
Operating temperature range	-20 ~ +70 °C -40 ~ +85 °C	commercial application industrial application
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel	1'000 or 2'500 pieces
Customer specifications on request		



## Pin function

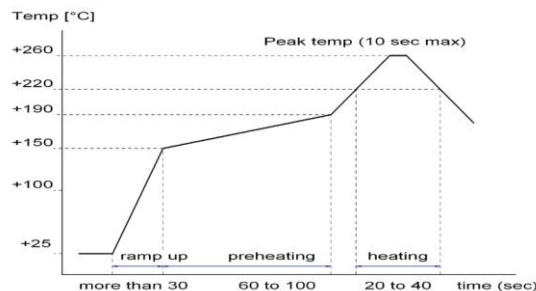
- # 1 Vc Voltage control
- # 2 GND
- # 3 Output
- # 4 Vdc

## Example for solder pattern



*Do not design any conductive path between the pattern*

## Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

02 May. 10

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