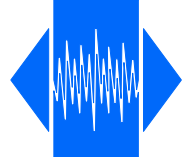


VT7-503

SMD VC-TCXO
Clipped sine wave

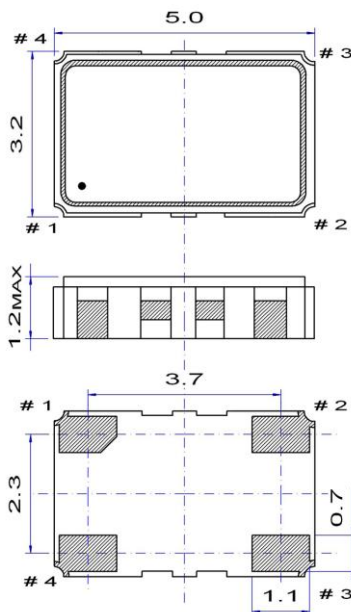
QuartzCom
the communications company



Features

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

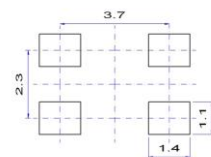
Parameter	Specification	
Frequency range	10 ~ 40 MHz	
Standard frequencies	10.0, 12.8, 13.0, 14.4, 16.0, 19.2, 20.0, 24.0, 25.0, 38.4 & 40.0 MHz	
Frequency stability:		
vs. temperature	$\leq \pm 0.5 \sim \pm 2.5$ ppm	10.0 ~ 40.0 MHz -40 ~ +85 °C
	$\leq \pm 0.1 \sim \pm 0.28$ ppm	10.0 ~ 26.0 MHz -20 ~ +70 °C
vs. supply change	$\leq \pm 0.2$ ppm	± 5 %
vs. load change	$\leq \pm 0.2$ ppm	± 5 %
vs. aging	$\leq \pm 1.0$ ppm	1 st year
Frequency tolerance ex. factory	$\leq \pm 0.5$ 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 k Ω // 10 pF	
Frequency pulling range	$\pm 5 \sim \pm 10$ ppm	
Voltage control	+1.5 V	± 1.0 V
Phase noise @ 20 MHz carrier frequency	-145 dBc/Hz	@ 10 kHz
Operating temperature range	-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

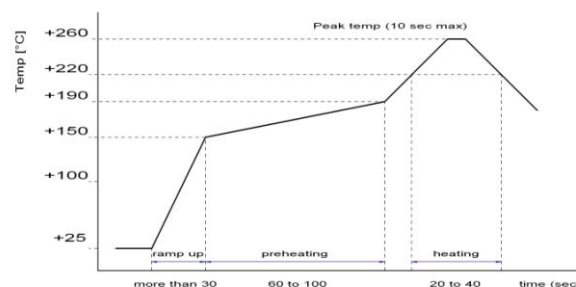
- # 1 Vc Voltage control
- # 2 GND
- # 3 Output
- # 4 Vdc

Example for solder pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant