

VT7-503C

SMD VC-TCXO
CMOS

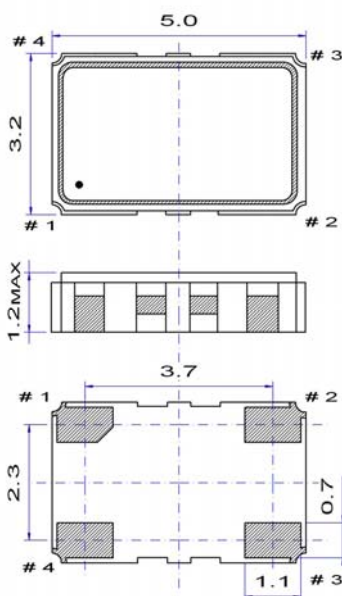
QuartzCom
the communications company



Features

- Applications: mobile communications, GPS, instrumentation
- Output signal CMOS
- Frequency range up to 32.768 MHz
- Highly shock and vibration resistant

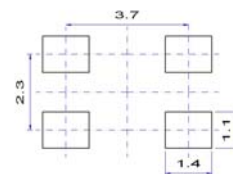
| Parameter | Specification | |
|--|---|------------------------------|
| Frequency range | 10 ~ 40 MHz | |
| Standard frequencies | 10.0, 12.8, 13.0, 14.4, 16.0, 19.2, 20.0, 24.0, 25.0, 38.4 & 40.0 MHz | |
| Frequency stability: | | |
| vs. temperature | $\leq \pm 0.5 \sim \pm 2.5$ ppm | 10.0 ~ 40.0 MHz -40 ~ +85 °C |
| | $\leq \pm 0.1 \sim \pm 0.28$ ppm | 10.0 ~ 26.0 MHz -20 ~ +70 °C |
| vs. supply change | $\leq \pm 0.1$ ppm | ± 5 % |
| vs. load change | $\leq \pm 0.1$ 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, +3.0, +3.3 & +5.0 V | |
| Supply current | < 5 mA | |
| Output signal | CMOS | |
| Output level | $V_{OH} > 0.9$ Vdc | $V_{OL} < 0.1$ Vdc |
| Output load | 15 pF | ± 5 % |
| Frequency pulling range | $\pm 5 \sim \pm 15$ ppm | |
| Voltage control | +1.5 V | ± 1.0 V |
| Phase noise @ 20 MHz carrier frequency | -140 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

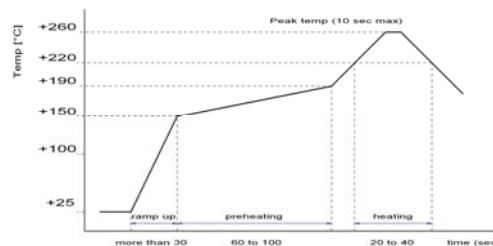
- # 1 Vc Voltage control
- # 2 GND
- # 3 Output
- # 4 Vdc

Example for solder pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

31 Oct. 10