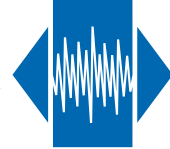


VT3-801F

SMD VC-TCXO
Clipped sine wave

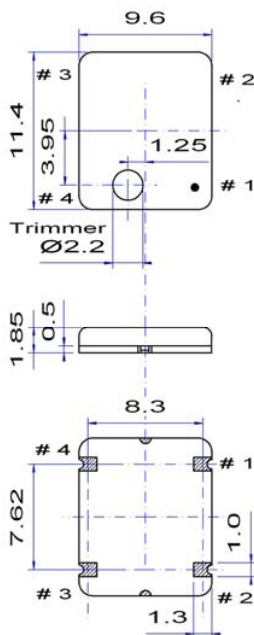
QuartzCom
the communications company



Features

- Applications: mobile communications, GPS, instrumentation, microwave
- Frequency range up to 50 MHz
- Tight frequency stability vs. temperature
- Low phase noise

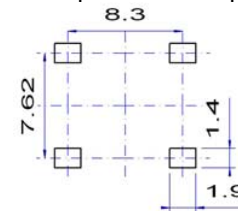
| Parameter | Specification | | |
|--|--|----------------------|------------------------|
| | VT3-801FL | VT3-801FM | VT3-801FS |
| Frequency range | 9.6 ~ 50 MHz | | |
| Standard frequencies | 10.00, 13.00, 16.384, 19.20, 19.44, 20.00, 20.48 & 27.00 MHz | | |
| Frequency stability: | | | |
| vs. temperature | ≤ ±1.0 ~ ± 2.5 ppm | | |
| vs. supply & load change | ≤ ±0.2 ppm | ±5 % | |
| vs. aging | ≤ ±1.0 ppm | 1 st year | |
| Frequency tolerance ex. factory | ≤ ±0.5 ppm @ +25 °C | | |
| Supply voltage | +3.0 V ±5 % | +3.3 V ±5 % | +5.0 V ±5 % |
| Supply current | 1.5 ~ 4 mA | | |
| Output signal | > 0.8 Vp-p clipped sine wave | | |
| Output load | 10 kΩ // 10 pF | | |
| Frequency pulling range | ±10 ~ ±15 ppm | | |
| Voltage control | +1.65 V ±1.35 V | | +2.5 V ±2.0 V |
| Frequency adjustment | > ± 3 ppm | | by internal trimmer |
| Phase noise @ 13.0 MHz carrier frequency | -140 dBc/Hz | | @ 1 kHz |
| Operating temperature range | -30 ~ +75 °C | | commercial application |
| | -40 ~ +85 °C | | industrial application |
| Storage temperature range | -55 ~ +125 °C | | |
| Packaging units | tape & reel | | 500 or 1'000 pieces |
| Customer specifications on request | | | |



Pin function

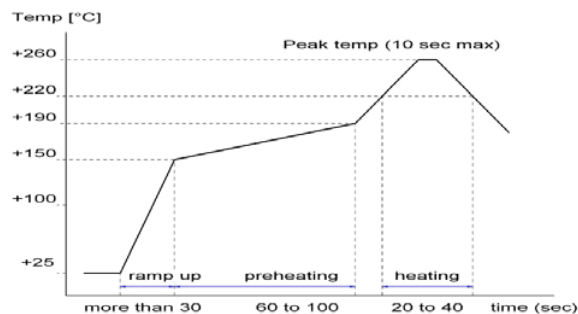
- # 1 Vc Voltage control
- # 2 GND
- # 3 Output
- # 4 Vdc

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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ISO 9001
BUREAU VERITAS
Certification

