

# VT3-801F

SMD VC-TCXO  
Clipped sine wave

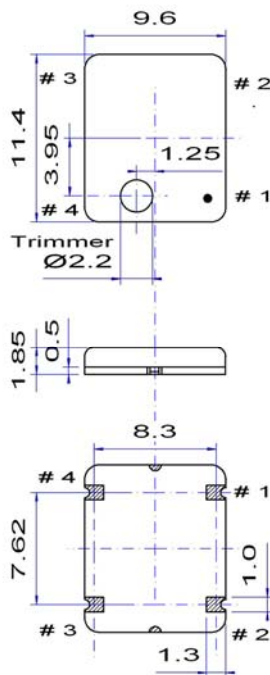
QuartzCom  
the communications company



## Features

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

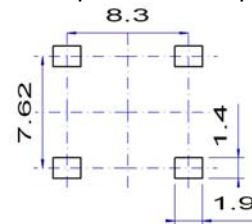
Parameter	Specification		
	VT3-801FL	VT3-801FM	VT3-801FS
Frequency range	9.6 ~ 50 MHz		
Standard frequencies	10.00, 13.00, 16.384, 19.20, 19.44, 20.00, 20.48 & 27.00 MHz		
Frequency stability:			
vs. temperature	$\leq \pm 1.0 \sim \pm 2.5$ ppm		
vs. supply & load change	$\leq \pm 0.2$ ppm	$\pm 5$ %	
vs. aging	$\leq \pm 1.0$ ppm	1 <sup>st</sup> year	
Frequency tolerance ex. factory	$\leq \pm 0.5$ ppm @ +25 °C		
Supply voltage	+3.0 V $\pm 5$ %	+3.3 V $\pm 5$ %	+5.0 V $\pm 5$ %
Supply current	1.5 ~ 4 mA		
Output signal	> 0.8 Vp-p clipped sine wave		
Output load	10 k $\Omega$ // 10 pF		
Frequency pulling range	$\pm 10 \sim \pm 15$ ppm		
Voltage control	+1.65 V $\pm 1.35$ V		+2.5 V $\pm 2.0$ V
Frequency adjustment	> $\pm 3$ 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

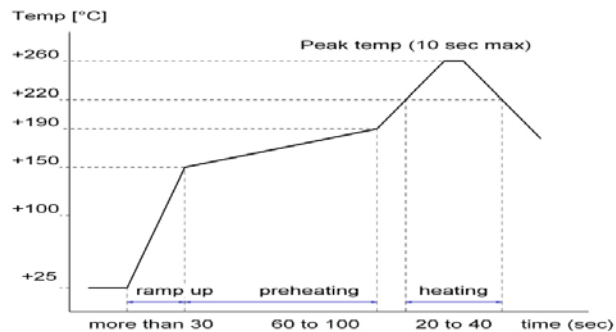
- # 1 Vc Voltage control
- # 2 GND
- # 3 Output
- # 4 Vdc

## Example for solder pattern



Do not design any conductive path between the pattern

## Example for IR reflow soldering temperature



2002/95/EC RoHS compliant