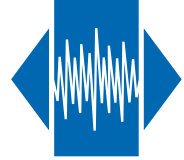


# VT5-256HL

SMD VC-TCXO  
HCMOS

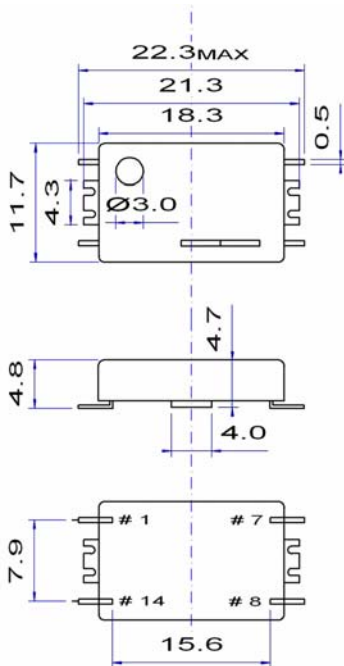
QuartzCom  
the communications company



## Features

- Applications: mobile communications, instrumentation, broadcast
- Frequency range up to 200 MHz
- Tight frequency stability vs. temperature
- Low phase noise

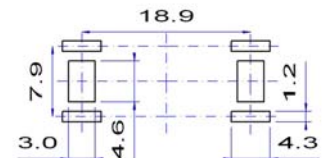
| Parameter                              | Specification   |  |
|--|---|--|
|  | VT5-256HL3  | VT5-256HL5                                       |
| Frequency range                        | 1 ~ 200 MHz   |  |
| Standard frequencies                   | 10.00, 12.80, 13.00, 16.384, 18.00, 20.00, 26.00, 27.00 & 40.00 MHz |  |
| Frequency stability:                   |   |  |
| vs. temperature                        | $\leq \pm 0.5 \sim \pm 2.5$ 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                         | +3.3 V $\pm 5$ %  | +5.0 V $\pm 5$ %                                 |
| Supply current                         | 10 ~ 40 mA  |  |
| Output signal                          | HCMOS   |  |
| Output load                            | 15 pF   |  |
| Frequency pulling range                | $\pm 5 \sim \pm 40$ ppm   |  |
| Voltage control                        | +1.65 V $\pm 1.50$ V  | +1.65 V $\pm 1.50$ V                             |
| Frequency adjustment                   | $> \pm 5$ ppm   | with internal trimmer                            |
| Phase noise @ 40 MHz carrier frequency | -140 dBc/Hz   | @ 1 kHz  |
| Operating temperature range            | -20 ~ +70 °C<br>-40 ~ +85 °C  | commercial application<br>industrial application |
| Storage temperature range              | -55 ~ +125 °C   |  |
| Packaging units                        | tape & reel<br>tray   | 500 pieces<br>50 pieces                          |
| Customer specifications on request     |   |  |



## Pin function

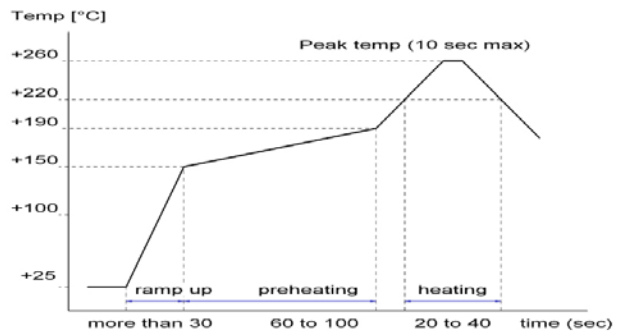
- # 1 Vc Voltage control
- # 7 GND
- # 8 Output
- # 14 Vdc

## Example for solder pattern



*Do not design any conductive path between the pattern*

## Example for IR reflow soldering temperature



2002/95/EC RoHS compliant