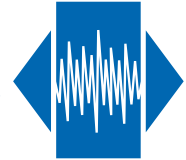


# VT5-254HL

SMD VC-TCXO  
HCMOS

QuartzCom  
the communications company



## Features

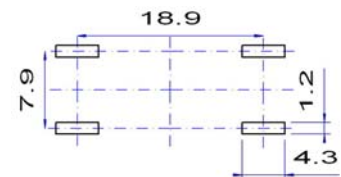
- Applications: mobile communications, instrumentation, broadcast
- Frequency range up to 200 MHz
- Tight frequency stability vs. temperature
- Low phase noise

Parameter	Specification	
	VT5-254HL3	VT5-254HL5
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	+2.5 V $\pm 2.0$ 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 -40 ~ +85 °C	commercial application industrial application
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel tray	500 pieces 50 pieces
Customer specifications on request		

## Pin function

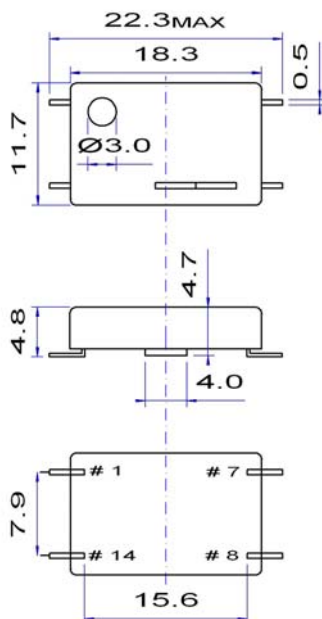
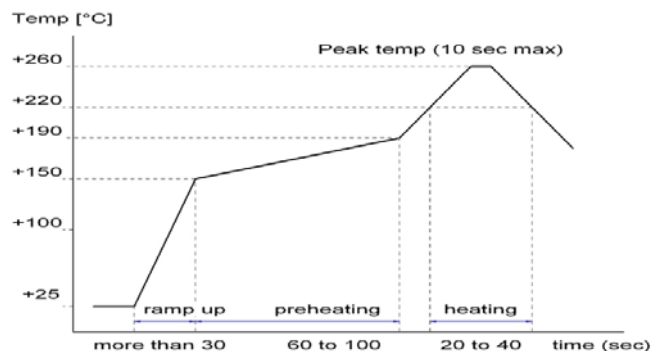
- # 1 Vc Voltage control
- # 7 GND
- # 8 Output
- # 14 Vdc

## Example for solder pattern



*Do not design any conductive path between the pattern*

## Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

22 Mar. 10