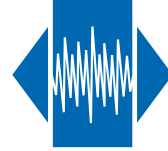


# VTO-P9-H-6p

SMD VC-TCXO  
HCMOS

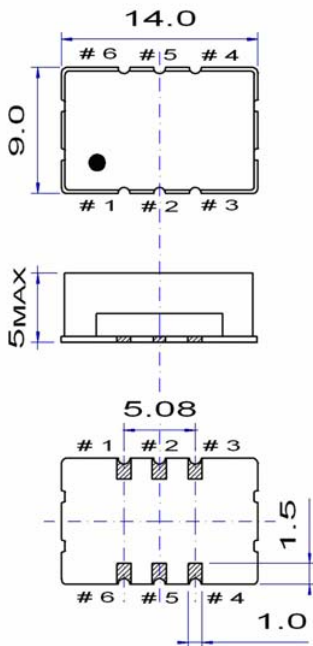
QuartzCom  
the communications company



## Features

- Applications: telecoms infrastructure, broadband access
- Output signal HCMOS
- Wide frequency range up to 200 MHz
- Low phase jitter < 1.0 ps

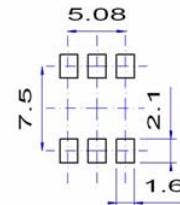
Parameter	Specification	
	VTO-P9-3H-6p	VTO-P9-5H-6p
Frequency range	5 ~ 200 MHz	
Standard frequencies	10.000, 19.440, 20.000, 24.000, 32.768 & 52.000 MHz	
Frequency stability:		
vs. temperature	$\leq \pm 0.5 \sim \pm 2.5$ ppm	
vs. supply & load change	$\leq \pm 0.3$ ppm	$\pm 5$ %
vs. aging	$\leq \pm 1.0$ 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	4 ~ 15 mA	
Output signal	HCMOS	
Output load	15 pF	
Frequency pulling range	$\pm 5 \sim \pm 10$ ppm	
Voltage control	+1.65 V $\pm 1.35$ V	+2.5 V $\pm 2.0$ V
Jitter (RMS)	< 1 ps @ 12 kHz ~ 20 MHz from carrier frequency	
Operating temperature range	-20 ~ +70 °C	commercial application
	-40 ~ +85 °C	industrial application
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel	500 pieces
Customer specifications on request		



## Pin function

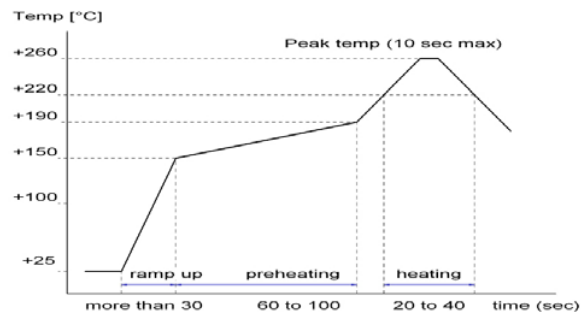
- # 1 Vc Voltage control
- # 2 N.C.
- # 3 GND
- # 4 Output
- # 5 N.C.
- # 6 Vdc

## 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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