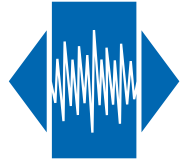


# VXO-P9-DEH-6J

SMD VCXO  
LVDS

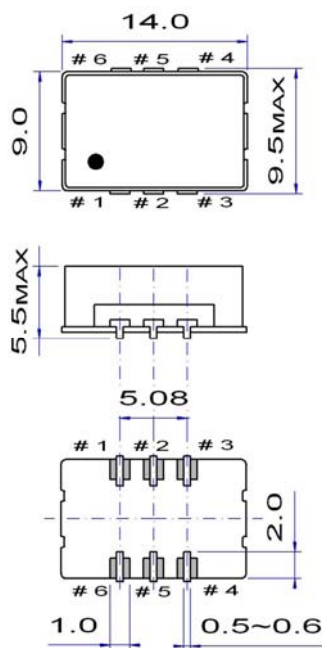
QuartzCom  
the communications company



## Features

- Applications: wireless communications, 10 Gigabit Ethernet, SDH, SONET, Fibre Channel, broadband access, DSL, GPON
- Output frequency up to 800 MHz
- Low phase noise and low jitter < 0.4 ps

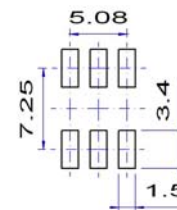
| Parameter                                                                                        | Specification                                                                            |                                                         |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------|
|                                                                                                  | VXO-P9-25DSH-6J                                                                          | VXO-P9-3DSH-6J                                          |
| Frequency range                                                                                  | 100 ~ 800 MHz                                                                            |                                                         |
| Standard frequencies                                                                             | 120.00, 122.88, 155.52, 156.25, 307.2, 320, 368.64, 460.80, 491.52<br>614.4 & 622.08 MHz |                                                         |
| Supply voltage                                                                                   | +2.5 V $\pm$ 5 %                                                                         | +3.3 V $\pm$ 5 %                                        |
| Supply current                                                                                   | 30 ~ 100 mA                                                                              |                                                         |
| Frequency stability<br>(all inclusive) (*)                                                       | < $\pm$ 25 ppm<br>< $\pm$ 50 ppm                                                         | over -20 ~ +70 °C<br>over -40 ~ +85 °C                  |
| Output signal                                                                                    | LVDS                                                                                     |                                                         |
| Output voltage                                                                                   | $V_{OH} \leq 1.60$ V $V_{OL} \geq 0.9$ V                                                 |                                                         |
| Output load                                                                                      | 100 $\Omega$                                                                             |                                                         |
| Symmetry                                                                                         | 45 ~ 55 %                                                                                | @ 1/2 Vdc                                               |
| Rise / Fall time                                                                                 | 1 ns                                                                                     |                                                         |
| Frequency pulling range                                                                          | $\pm$ 50 ~ $\pm$ 100 ppm                                                                 |                                                         |
| Voltage control                                                                                  | +1.25 V $\pm$ 1.25 V                                                                     | +1.65 V $\pm$ 1.35 V                                    |
| Enable / Disable function                                                                        | Pin #2 = high or open<br>Pin #2 = low                                                    | Pin #4 & #5 → (E) signal<br>Pin #4 & #5 → (D) no signal |
| Jitter (rms)                                                                                     | < 0.4 ps @ 12 kHz ~ 20 MHz from carrier frequency                                        |                                                         |
| Operating temperature range                                                                      | -20 ~ +70 °C<br>-40 ~ +85 °C                                                             | commercial application<br>industrial application        |
| Packaging unit                                                                                   | tape & reel                                                                              | 500 pieces                                              |
| (*) All inclusive frequency stability vs. temperature, tolerance, aging, supply & load variation |                                                                                          |                                                         |
| Customer specifications on request                                                               |                                                                                          |                                                         |



## Pin function

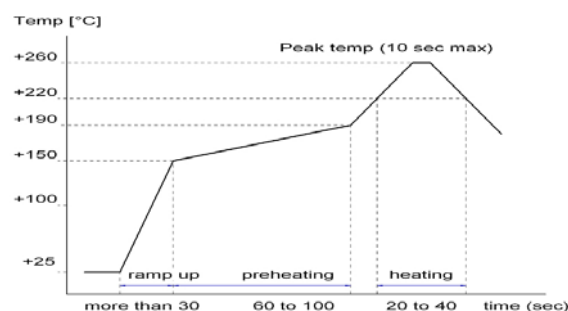
- #1 Vc Voltage control
- #2 E/D or not connected
- #3 GND
- #4 Output
- #5 Complementary Output
- #6 Vdc

## Example for solder pattern



Do not design any conductive path between the pattern

## Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

31 Mar. 10