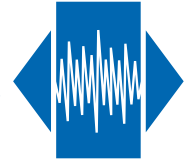


# VXO-6S-4p

Miniature packaged SMD VCXO  
CMOS

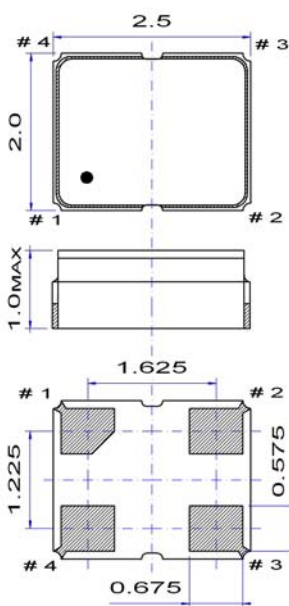
**QuartzCom**  
the communications company



## Features

- Applications: telecommunications, instrumentation, microwave
- Miniature package size: 2.5 x 2.0 x 1.0 mm
- Output frequency range 2 MHz to 54 MHz
- Low phase noise
- Highly shock and vibration resistant

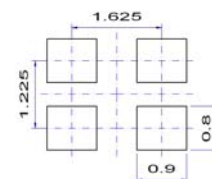
Parameter	Specification		
	VXO-6S18-4p	VXO-6S25-4p	VXO-6S3-4p
Frequency range	2 ~ 54 MHz		
Standard frequencies	27.0 MHz		
Supply voltage	+1.8 V $\pm$ 5 %	+2.8 V $\pm$ 5 %	+3.3 V $\pm$ 5 %
Supply current	3 ~ 8 mA		
Frequency stability (all inclusive) (*)	< $\pm$ 20 ppm < $\pm$ 50 ppm		
Output signal	CMOS		
Output voltage	$V_{OH} \geq 0.9 \times V_{dc}$ $V_{OL} \leq 0.1 \times V_{dc}$		
Output load	15 pF		
Symmetry	40 ~ 60 %	@ $\frac{1}{2}$ Vdc	
Rise / Fall time	4 ~ 8 ns		
Voltage control (Vc)	+0.9 V $\pm$ 0.9 V	+1.4 V $\pm$ 1.4 V	+1.65 V $\pm$ 1.65 V
Impedance (Vc to GND)	> 10 M $\Omega$		
Frequency pulling range	> $\pm$ 80 ppm > $\pm$ 100 ppm > $\pm$ 130 ppm	1.8 Vdc 2.8 Vdc 3.3 Vdc	
Modulation bandwidth	> 20 kHz	@ -3 dB	
Phase noise	-125 dBc/Hz @ 1 kHz		
Operating temperature range	-20 ~ +70 °C		
Packaging units	tape & reel	500 or 1'000 pieces	
(*) All inclusive frequency stability vs. temperature, tolerance, aging, supply & load variation			
Customer specifications on request			



## Pin function

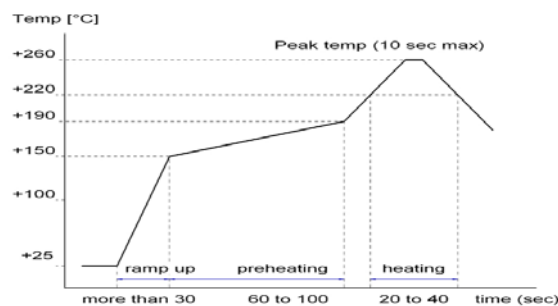
- # 1 Vc Voltage control
- # 2 GND
- # 3 Output
- # 4 Vdc

## Example for solder pattern



Do not design any conductive path between the pattern

## Example for IR reflow soldering temperature



2002/95/EC RoHS compliant