

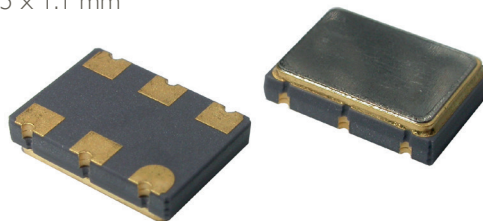
## SX3LQPV

# LVDS SURFACE MOUNT VOLTAGE CONTROLLED CRYSTAL CLOCK OSCILLATOR

## FEATURES

- Frequency Switchable Oscillator
- Up to 1500 MHz
- Short delivery

3.2 x 2.5 x 1.1 mm



Item	Specification	
Frequency Range	10.0 MHz ~ 1500 MHz	
Output Signal	LVDS	
Overall Frequency Stability *	± 25 ppm ~ ± 100 ppm ( see options )	
Operating Temperature Range	0 ~ +70°C commercial application (see options ) -40 ~ +85°C industrial application (see options )	
Supply Voltage Vdd	+2.5V ±5%	+3.3V ±5%
Control voltage center	+1.25V	+1.65V
Control voltage range	0.2V to 2.3V	0.3V to 3.0V
Supply Current Idd	35 mA max.	
Output Voltage HIGH VOH	1.43 V typ., 1.6 V max.	
Output Voltage LOW VOL	1.10 V typ., 0.9 V min.	
Output Load	50 ohm from each output	
Symmetry	45 / 55 %	
Rise / Fall time Fr/Ff	0.4 ns max	
Frequency Pulling Range	±80 ppm min.; up to ±200 ppm min., please contact us.	
Linearity	5% typical ; 10% max.	
Slope Polarity	Positive ( Increasing control voltage always increases output frequency )	
Modulation bandwidth	10 kHz min ( -3 dB )	
Input impedance	1 MΩ min.	
Start-up Time	3 ms typ.; 10 ms max.	
RMS Phase Jitter ( 12 kHz to 20 MHz )	1.0 ps typ.	
Frequency selection	<b>FSEL</b> 0 1	<b>Frequency output</b> Freq. 1 Freq. 2
Packing Unit	1000pcs / reel	
Soldering Condition	260°C , 10 sec x2 max	

( \* ) Includes initial tolerance @+25°C , stability over operating temperature , stability vs. load change , stability vs. supply change and one year aging

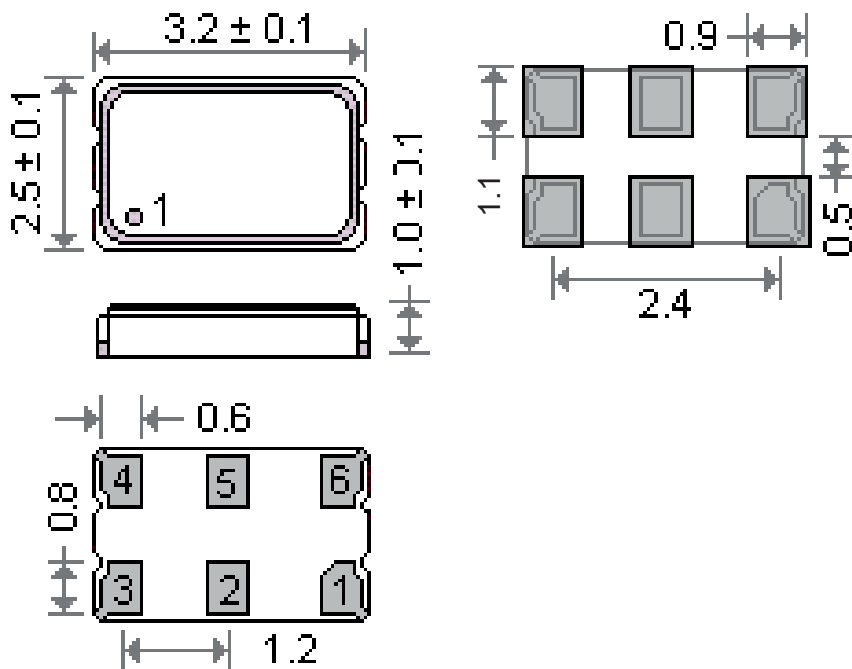
Customer specifications on request

## OPTIONS & ORDERING INFORMATION

SX3LQPV	Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Pulling *	Frequency 1 (MHz)	Frequency 2 (MHz)
	25 = +2.5V	E = 0° / +70°C	25 = ±25 ppm	F = No Tri-state	80 = ±80 ppm min.		
	33 = +3.3V	F = -20° / +70°C	50 = ±50 ppm		100 = ±100 ppm min.		
		K = -40° / +85°C	100 = ±100 ppm		150 = ±150 ppm min.		
					200 = ±200 ppm min.		

\* Note : Not all combinations are possible , please consult us.

## OUTLINE DIMENSIONS (MM)



### Pin Connections

- #1 : Control voltage
- #2 : FSEL
- #3: GND
- #4 : Output
- #5 : Complementary output
- #6 :Vdd