

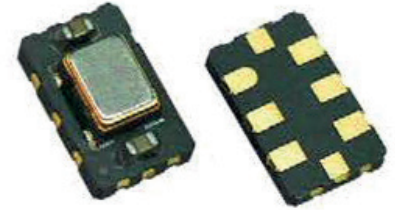
## SX5LVTJ

## LVDS SURFACE MOUNT VCTCXO

### FEATURES

- ▶ Ultra Low Jitter , 300 fsec typ.
- ▶ Fast delivery

5.0 x 3.2 x 1.5 mm



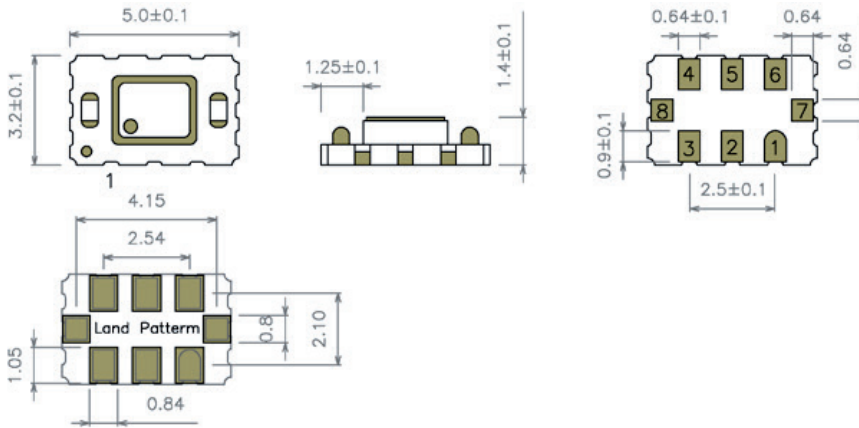
Item	Specification
Frequency Range	15 MHz ~ 2100.0 MHz
Output Signal	LVDS
Supply Voltage Vdd	+1.8V ±5% +2.5V ±10% +3.3V ±10%
Supply Current Idd	90.0 mA max
Frequency Tolerance	±1.0 ppm at 25°C ±2°C
Frequency Stability	<ul style="list-style-type: none"> <li>vs Temperature ±1.0 ppm over -40° to +85°C</li> <li>vs Aging ±1.0 ppm max. per year at 25°C</li> <li>vs Voltage Change ±0.2 ppm max. , for a ±5% input voltage change</li> <li>vs Load Change ±0.2 ppm max. , for a ±10% load condition change</li> <li>vs Reflow ±1.0 ppm max. , 1 reflow and measured 24 hours afterwards</li> </ul>
Output Voltage HIGH VOH	1.43V typ. ; 1.6V max
Output Voltage LOW VOL	1.1 V typ. ; 0.9V min.
Output Load	100 Ohm between output and complementary output
Symmetry	45 / 55 %
Rise / Fall time Fr/Ff	0.35 ns max.
Tri-state function	<ul style="list-style-type: none"> <li>pin #2 : high or open</li> <li>pin #2 : low</li> <li>pin #4 : oscillation</li> <li>pin #4 : high impedance</li> </ul>
Current with Output Disable	72 mA typ.
Start-up Time	5 ms typ.
Integrated Phase Jitter (12 kHz to 20 MHz )	<ul style="list-style-type: none"> <li>15 MHz - 50 MHz 500 fsec typ.</li> <li>51 MHz - 250 MHz 300 fsec typ.</li> <li>251 MHz - 2100 MHz 250 fsec typ.</li> </ul>
Control Voltage Function	<ul style="list-style-type: none"> <li>Control voltage range +0.9V +0.6V for Vdd 1.8V +1.5V ±1.0V for Vdd 2.5V and 3.3V</li> <li>Frequency pulling range ±8 ppm min.</li> <li>Linearity ±1.0 % typical , ±10 % max Positive</li> <li>Slope polarity 5 MΩ typ.</li> <li>Input impedance 10 kHz typ. ( at -3 dB ) 1000pcs / reel</li> <li>Modulation bandwidth 260°C , 10 sec x2 max</li> </ul>
Packing Unit	
Soldering Condition	

## OPTIONS & ORDERING INFORMATION

SX5LVTJ					MHz	
	Supply voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Pulling *	Frequency in MHz
	10 = +1.0V 25 = +2.5V 33 = +3.3V	K = 40° / +85°C	1.0 = ±1.0 ppm 1.5 = ±1.5 ppm	E2 = Tri-state , pin 2	08 = ± 8 ppm min.	Please specify the frequency in MHz

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

## OUTLINE DIMENSIONS (MM)



### Pin Connections

- #1 : Control Voltage
- #2 : E/D
- #3: GND
- #4 : Output
- #5 : Complementary Output
- #6 : Vdd
- #7 : Do Not Connect
- #8 : Do Not Connect