

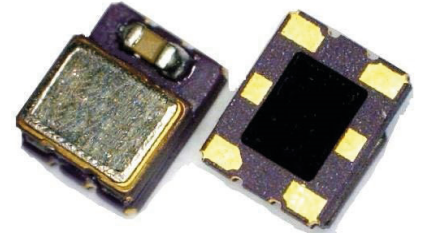
**SX3EVTQ**

**LVPECL SURFACE MOUNT VCTCXO**

**FEATURES**

- Miniature package
- Low jitter

3.2 x 2.5 x 1.7 mm



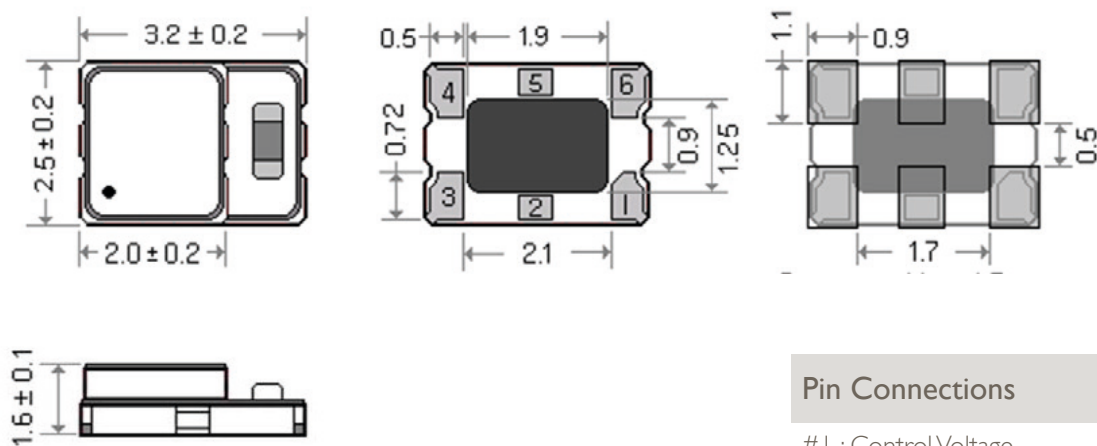
Item	Specification																														
Frequency Range	10 MHz ~ 1450.0 MHz																														
Output Signal	LVPECL																														
Supply Voltage Vdd	+2.5V ±5%      +3.3V ±5%																														
Supply Current Idd	50.0 mA max , Frequency dependent																														
Frequency Tolerance	±2.0 ppm at 25°C ±2°C ( one hour after reflow )																														
Frequency Stability vs Temperature ( see options )	<table border="1"> <thead> <tr> <th></th> <th>±0.5 ppm</th> <th>±1.0 ppm</th> <th>±1.5 ppm</th> <th>±2.0 ppm</th> <th>±2.5 ppm</th> </tr> </thead> <tbody> <tr> <td>-20° to +70°C</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> <tr> <td>-30° to +75°C</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> <tr> <td>-30° to +85°C</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> <tr> <td>-40° to +85°C</td> <td>◇</td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> </tbody> </table> <p>○ = available      ◇ = please contact us      X = not available</p>		±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	-20° to +70°C	○	○	○	○	○	-30° to +75°C	○	○	○	○	○	-30° to +85°C	○	○	○	○	○	-40° to +85°C	◇	○	○	○	○
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Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C																														
Frequency Stability vs Voltage Change	±0.2 ppm max. , for a ±5% input voltage change																														
Frequency Stability vs Load Change	±0.2 ppm max. , for a ±10% load condition change																														
Output Voltage HIGH VOH	Vdd -1.03 V min.; Vdd -0.95 V typ.; Vdd -0.6 V max																														
Output Voltage LOW VOL	Vdd -1.85 V min.; Vdd -1.70 V typ.; Vdd -1.60 V max																														
Output Load	50 ohm to Vdd-2V																														
Symmetry	45 / 55 %																														
Rise / Fall time Fr/Ff	0.5 ns max.																														
Tri-state function	pin #2 = high or open      pin #4 - #5 ==> oscillation pin#2 = low      pin #4 - #5 ==> high impedance																														
Start-up Time	5 ms max.																														
Integrated Phase Jitter ( 12 kHz to 20 MHz band )	0.8 ps typical																														
Voltage Control Function	<table border="1"> <thead> <tr> <th></th> <th>Vdd +2.5V ,Vcon Center = +1.5V</th> <th>Vdd +3.3V ,Vcon Center = +1.5V</th> </tr> </thead> <tbody> <tr> <td><b>Supply Voltage (Vdd)</b></td> <td>Vdd +2.5V ,Vcon Center = +1.5V</td> <td>Vdd +3.3V ,Vcon Center = +1.5V</td> </tr> <tr> <td><b>Control voltage range</b></td> <td>+1.5V ±1.0V</td> <td>+1.5V ±1.0V</td> </tr> <tr> <td><b>Frequency pulling range</b></td> <td colspan="2">±8 ppm min.</td> </tr> <tr> <td><b>Linearity</b></td> <td colspan="2">10 % max</td> </tr> <tr> <td><b>Slope polarity</b></td> <td colspan="2">Positive</td> </tr> <tr> <td><b>Input impedance</b></td> <td colspan="2">1 MΩ typ.</td> </tr> <tr> <td><b>Modulation bandwidth</b></td> <td colspan="2">10 kHz min. ( at -3 dB )</td> </tr> </tbody> </table>		Vdd +2.5V ,Vcon Center = +1.5V	Vdd +3.3V ,Vcon Center = +1.5V	<b>Supply Voltage (Vdd)</b>	Vdd +2.5V ,Vcon Center = +1.5V	Vdd +3.3V ,Vcon Center = +1.5V	<b>Control voltage range</b>	+1.5V ±1.0V	+1.5V ±1.0V	<b>Frequency pulling range</b>	±8 ppm min.		<b>Linearity</b>	10 % max		<b>Slope polarity</b>	Positive		<b>Input impedance</b>	1 MΩ typ.		<b>Modulation bandwidth</b>	10 kHz min. ( at -3 dB )							
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Packing Unit	1000pcs / reel																														
Soldering Condition	260°C , 10 sec x2 max																														

## OPTIONS & ORDERING INFORMATION

SX3EVTQ						MHz
Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling *	Frequency in MHz
25 = +2.5V 33 = +3.3V	F = -20° / +70°C G = -30° / +75°C H = -30° / +85°C K = -40° / +85°C	0.5 = ±0.5 ppm 1.0 = ±1.0 ppm 1.5 = ±1.5 ppm 2.0 = ±2.0 ppm 2.5 = ±2.5 ppm	E2 = Tri-state , pin 2	6P = 6-pad version	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