

# SX7SVT

# CLIPPED SINE WAVE SURFACE MOUNT VCTCXO

## FEATURES

- Miniature package
- Tight stability
- Low power consumption
- Applications: GPS, Mobile phone, WLAN, Base stations, ...

7.0 x 5.0 x 2.0 mm



Item	Specification						
Frequency Range	5.0 MHz to 50.0 MHz						
Output Logic	Clipped Sine Wave						
Supply Voltage V <sub>dd</sub> (see options)	+2.5 V ±5%	+2.8 V ±5%	+3.0 V ±5%	+3.3 V ±5%			
Supply Current I <sub>dd</sub>	≤ 15 MHz		1.5 mA max.				
	15 - 26 MHz		2.0 mA max.				
	> 26 MHz		2.5 mA max.				
Frequency Tolerance	±2.0 ppm max. at 25°C ±2°C (one hour after reflow)						
Frequency Stability vs Temperature (see options)		±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm
	-10° to +60°C	o	o	o	o	o	o
	-20° to +70°C	o	o	o	o	o	o
	-30° to +75°C	o	o	o	o	o	o
	-30° to +85°C	◇	o	o	o	o	o
	-40° to +85°C	◇	◇	o	o	o	o
	o = available		◇ = please contact us		x = not available		
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 Level	≥0.8 V p-p						
Output Load	10 kΩ // 10 pF						
Phase Noise	Offset / dBc / Hz (typical)	100 Hz	1 kHz	10 kHz			
	13.0 MHz	-115 dBc / Hz	-135 dBc / Hz	-148 dBc / Hz			
Start-up Time	3 ms max.						
Voltage Control Function	<b>Control Voltage Range</b>	Center voltage +1.5 V, range ±1.0V					
	<b>Frequency Pulling Range</b>	±5 ppm min.					
	<b>Linearity</b>	10 % max.					
	<b>Slope Polarity</b>	Positive					
	<b>Input Impedance</b>	100 kΩ min.					
	<b>Modulation Bandwidth</b>	3 kHz min. (at -3 dB)					
Packing Unit	1000 pcs / reel						
Soldering Condition	260°C, 10 sec x2 max						

Customer specifications on request

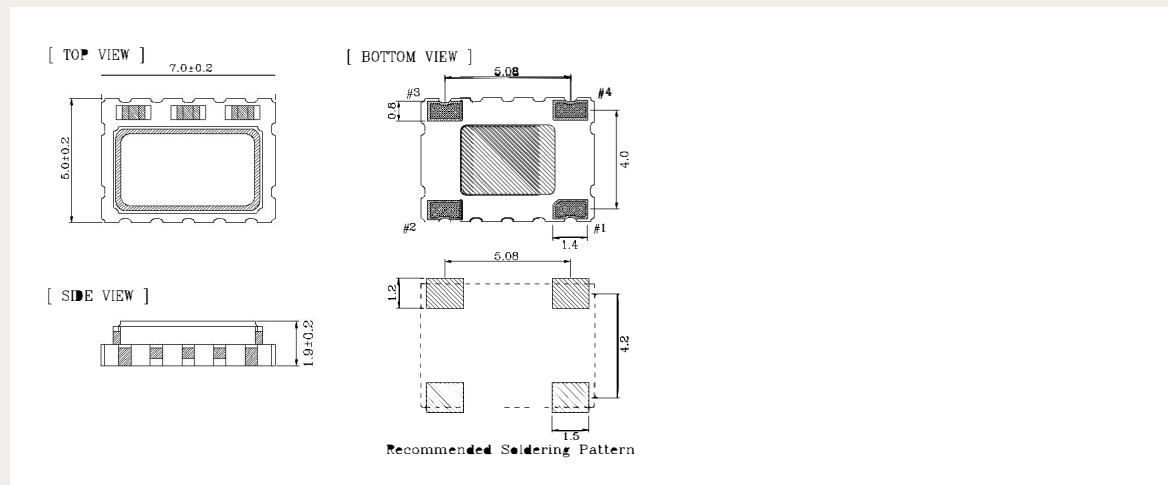
## OPTIONS & ORDERING INFORMATION

SX7SVT							..... MHz
Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling **	Frequency in MHz	
<b>25</b> = +2.5V	<b>D</b> = -10° / +60°C	<b>0.5</b> = ±0.5 ppm	<b>F</b> = No Tri-state	<b>4P</b> = 4-pad version	<b>05</b> = ±5 ppm min.	Please specify the frequency in MHz	
<b>28</b> = +2.8V	<b>F</b> = -20° / +70°C	<b>1.0</b> = ±1.0 ppm					
<b>30</b> = +3.0V	<b>G</b> = -30° / +75°C	<b>1.5</b> = ±1.5 ppm					
<b>33</b> = +3.3V	<b>H</b> = -30° / +85°C	<b>2.0</b> = ±2.0 ppm					
	<b>K</b> = -40° / +85°C	<b>2.5</b> = ±2.5 ppm					
		<b>3.0</b> = ±3.0 ppm					

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

(\*\*) Other pulling range is available on customer specification.

## OUTLINE DIMENSIONS



**Pin Connections**    #1 : Control voltage    #2 : GND    #3: Output    #4 : Vdd