

# SX1SVT

## CLIPPED SINE WAVE SURFACE MOUNT VCTCXO

### FEATURES

- Ultra miniature package
- Tight stability
- Applications: GPS, Mobile phone, WLAN, ...

2.0 x 1.6 x 0.8 mm



Item	Specification						
Frequency Range	13.0 MHz to 52.0 MHz						
Output Logic	Clipped Sine Wave						
Supply Voltage V <sub>dd</sub> (see options)	+1.8 V ±5%	+2.5 V ±5%	+2.8 V ±5%	+3.0V ±5%	+3.3V ±5%		
Supply Current I <sub>dd</sub>	≤ 30.0 MHz	1.5 mA max.					
	> 30.0 MHz	2.0 mA max.					
Frequency Tolerance	±1.0 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	o
	-40° to +85°C	∅	o	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						
Harmonics of output signal	-5 dBc max.						
Phase noise	-135 dBc/Hz typ. at 1 kHz offset						
Start-up Time	3 ms max.						
Voltage Control Function	<b>Control Voltage Range</b>		Center voltage 1/2 V <sub>dd</sub> , range ±1.0V ( ±0.9V for 1.8V version)				
	<b>Frequency Pulling Range</b>		±9 ppm min. to ±15 ppm max.				
	<b>Linearity</b>		10 % max.				
	<b>Slope Polarity</b>		Positive				
Packing Unit	3000 pcs / reel						
Soldering Condition	260°C, 10 sec x2 max						
	<b>Customer specifications on request</b>						

## OPTIONS & ORDERING INFORMATION

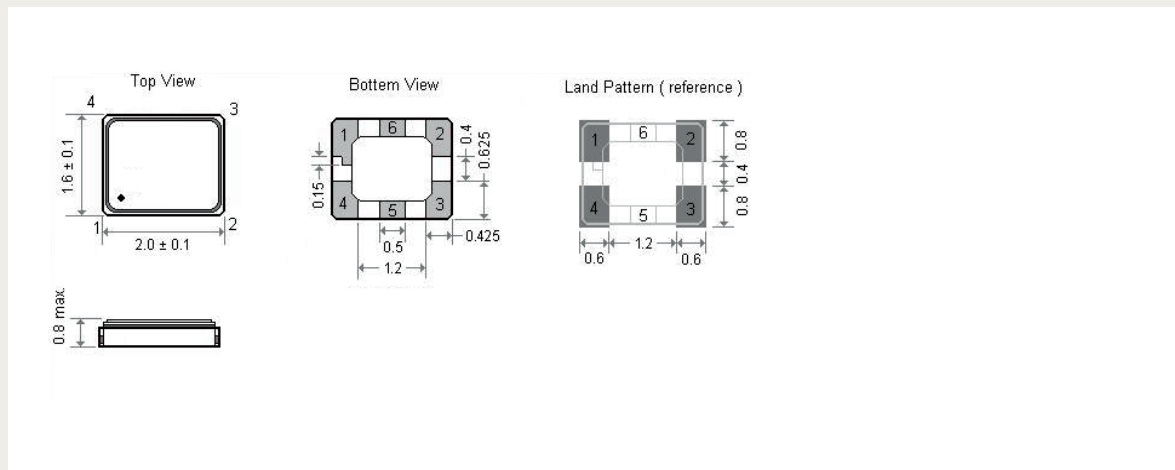
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Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling **	Frequency in MHz
<b>18</b> = +1.8V	<b>D</b> = -10° / +60°C	<b>0.5</b> = ±0.5 ppm	<b>F</b> = No Tri-state	<b>4P</b> = 4-pad version	<b>09</b> = ±9 ppm min.	Please specify the frequency in MHz
<b>25</b> = +2.5V	<b>F</b> = -20° / +70°C	<b>1.0</b> = ±1.0 ppm				
<b>28</b> = +2.8V	<b>G</b> = -30° / +75°C	<b>1.5</b> = ±1.5 ppm				
<b>30</b> = +3.0V	<b>H</b> = -30° / +85°C	<b>2.0</b> = ±2.0 ppm				
<b>33</b> = +3.3V	<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