

## SX2SVT

## CLIPPED SINE WAVE SURFACE MOUNT VCTCXO

### FEATURES

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

2.5 x 2.0 x 0.8 mm



Item	Specification							
Frequency Range	10.0 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%	+3.0 V ±5%	+3.3V ±5%			
Supply Current I <sub>dd</sub>	≤ 26 MHz	1.5 mA max.						
	> 26 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	
	-30° to +85°C	◇	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							
Phase Noise	Offset / dBc / Hz (typical)	100 Hz	1 kHz	10 kHz				
	19.2 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 1/2 V <sub>dd</sub> , range ±1.0V						
	<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

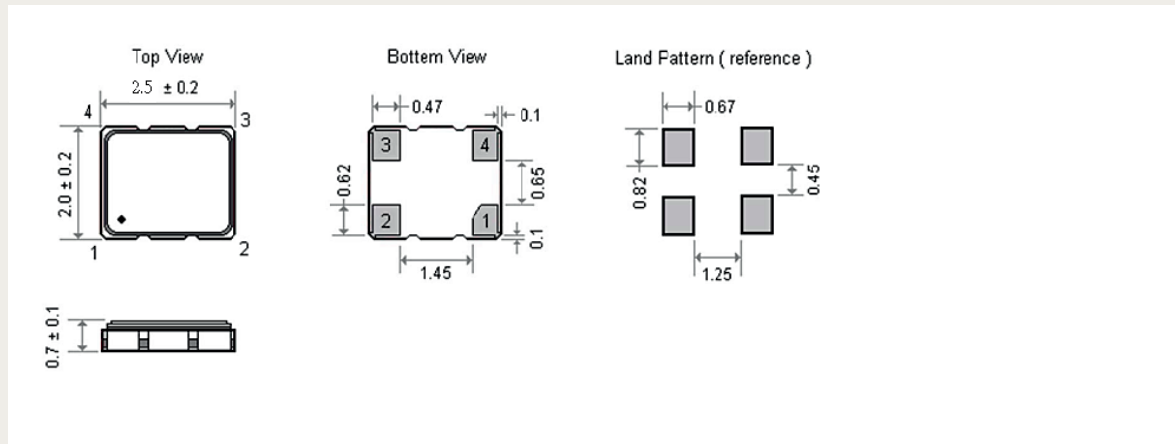
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Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling **	Frequency in MHz
<b>18</b> = +1.8V	<b>D</b> = -10° / +60 °C	<b>0.5</b> = ±0.5 ppm	<b>F</b> = No Tri-state	<b>4P</b> = 4-pad version	<b>09</b> = ±9 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
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