

# SX7SVTR

## CLIPPED SINE WAVE SURFACE MOUNT VCTCXO

### FEATURES

- Miniature package
- Stratum III compliant over -40° to +85°C up to 26 MHz
- Two package versions available
- Applications: Stratum 3, Base Stations

7.0 x 5.0 x 2.0 mm



Item	Specification										
Frequency Range	5.0 MHz to 26.0 MHz										
Standard Frequency	8.192 ; 10.0 ; 12.8 ; 16.384 ; 19.2 ; 19.44 ; 20.0 ; 25.0 ; 26.0 MHz										
Output Logic	Clipped Sine Wave										
Supply Voltage Vdd (see options)	+3.3 V ±5%      +5.0 V ±5%										
Supply Current Idd	3.5 mA max.										
Overall Frequency Stability *	±4.6 ppm max. over 20 years										
Frequency Stability vs Temperature	±0.28 ppm max.										
Frequency Stability vs Aging	±3.0 ppm max. over 15 years										
Frequency Stability vs Voltage Change	±0.01 ppm max., for a ±5% input voltage change										
Frequency Holdover Stability **	±0.37 ppm max.										
Supply Current Idd	<table border="0"> <tr> <td>≤ 15 MHz</td> <td>1.5 mA max.</td> </tr> <tr> <td>15 - 26 MHz</td> <td>2.0 mA max.</td> </tr> <tr> <td>&gt; 26 MHz</td> <td>2.5 mA max.</td> </tr> </table>	≤ 15 MHz	1.5 mA max.	15 - 26 MHz	2.0 mA max.	> 26 MHz	2.5 mA max.				
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Output Level	≥0.8 V p-p										
Output Load	10 kΩ // 10 pF										
Symmetry	45 / 55%										
Start-up Time	2 ms max.										
Tri-state function (Only possible for A-version package)	<table border="0"> <tr> <td>pin #8 = high or open</td> <td>pin #5 ==&gt; oscillation</td> </tr> <tr> <td>pin #8 = low</td> <td>pin #5 ==&gt; high impedance</td> </tr> </table>	pin #8 = high or open	pin #5 ==> oscillation	pin #8 = low	pin #5 ==> high impedance						
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Voltage Control Function	<table border="0"> <tr> <td><b>Control Voltage Range</b></td> <td>Center voltage +1.5 V, range ±1.0V</td> </tr> <tr> <td><b>Frequency Pulling Range</b></td> <td>±5 ppm min.</td> </tr> <tr> <td><b>Linearity</b></td> <td>10 % max.</td> </tr> <tr> <td><b>Slope Polarity</b></td> <td>Positive</td> </tr> <tr> <td><b>Input Impedance</b></td> <td>100 kΩ min.</td> </tr> </table>	<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.
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<b>Input Impedance</b>	100 kΩ min.										
Packing Unit	1000 pcs / reel										
Soldering Condition	260°C, 10 sec x2 max										

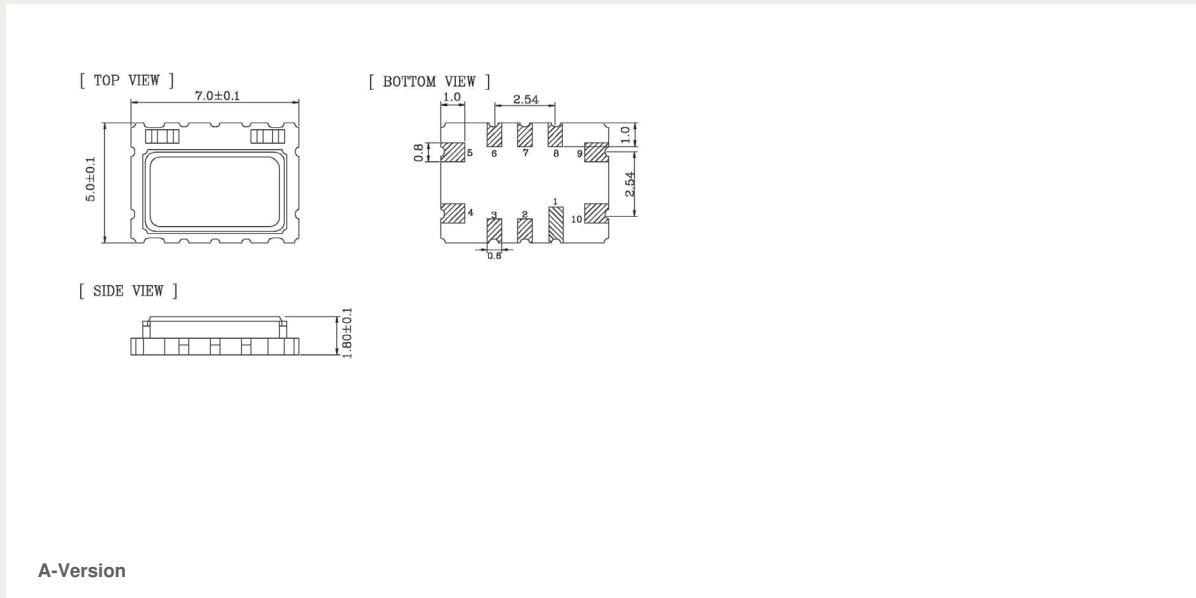
(\*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change, 20 years aging

(\*\*) Includes 24-hours aging, stability vs supply change and stability over operating temperature

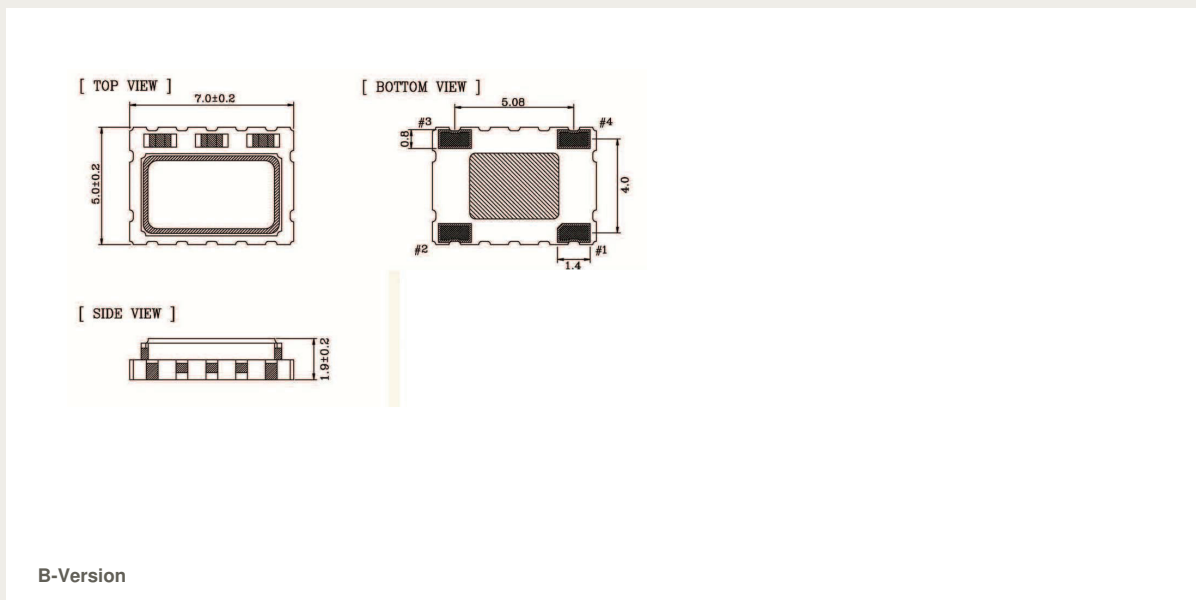
## OPTIONS & ORDERING INFORMATION

SX7SVTR						..... MHz
Supply Voltage	Operating Temp.	Overall Stability	Tri-state Function	Package type	Pulling	Frequency in MHz
<b>33</b> = +3.3V	<b>F</b> = -20° / +70°C	<b>4.6T</b> = ±4.6 ppm	<b>E8</b> = Tri-state, pin #8	<b>A</b> = A - version	<b>05</b> = ±5 ppm min.	Please specify the frequency in MHz
<b>50</b> = +5.0V	<b>K</b> = -40° / +85°C		<b>F</b> = No Tri-state	<b>B</b> = B - version		

# OUTLINE DIMENSIONS



<b>Pin Connections</b>	#1 : NC	#2 : NC	#3 : NC	#4 : GND	#5 : Output
	#6 : NC	#7 : NC	#8 : E/D	#9 : Vdd	#10 : GND



<b>Pin Connections</b>	#1 : GND	#2 : GND	#3 : Output	#4 : Vdd
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