

# SX7SVTT

## CLIPPED SINE WAVE SURFACE MOUNT VCTCXO

### FEATURES

- Miniature package
- High precision for -10° to +70°C , ± 0.05 ppm
- -40° to +85°C , ± 0.20 ppm
- Applications: Femtocell, Base stations, Wireless communications, ...

7.0 x 5.0 x 1.9 mm



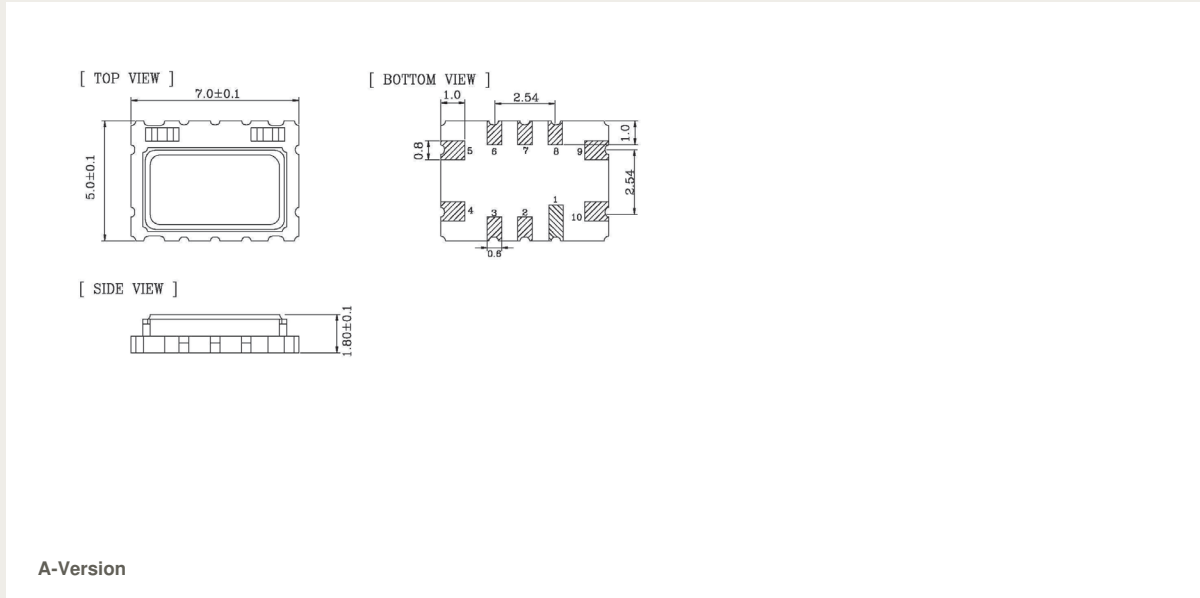
Item	Specification																																								
Frequency Range	5.0 MHz ~ 40.0 MHz																																								
Standard Frequency	10.000 ; 12.800 ; 16.384 ; 19.200 ; 19.440 ; 20.000 ; 25.000 ; 26.000																																								
Output Logic	Clipped Sine Wave																																								
Supply Voltage Vdd (see options)	+3.3 V ±5%      +5.0 V ±5%																																								
Supply Current Idd	3.5 mA max.																																								
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>±0.05 ppm</th> <th>±0.10 ppm</th> <th>±0.14 ppm</th> <th>±0.20 ppm</th> <th>±0.28 ppm</th> <th>±0.37 ppm</th> <th>±0.5 ppm</th> </tr> </thead> <tbody> <tr> <td>0° to +55°C</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> </tr> <tr> <td>-10° to +60°C</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> </tr> <tr> <td>-10° to +70°C</td> <td>◇</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> </tr> <tr> <td>-40° to +85°C</td> <td>x</td> <td>x</td> <td>x</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> </tr> </tbody> </table> <p>o = available      ◇ = please contact us      x = not available</p>		±0.05 ppm	±0.10 ppm	±0.14 ppm	±0.20 ppm	±0.28 ppm	±0.37 ppm	±0.5 ppm	0° to +55°C	o	o	o	o	o	o	o	-10° to +60°C	o	o	o	o	o	o	o	-10° to +70°C	◇	o	o	o	o	o	o	-40° to +85°C	x	x	x	o	o	o	o
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Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C																																								
Frequency Stability vs Voltage Change	±0.05 ppm max., for a ±5% input voltage change																																								
Frequency Stability vs Load Change	±0.05 ppm max., for a ±10% load condition change																																								
Output Level	≥0.8 V p-p																																								
Output Load	10 kΩ // 10 pF																																								
Start-up Time	2.0 ms max.																																								
Tri-state function (Only possible for A-version package)	pin #8 = high or open      pin#5 ==> oscillation pin #8 = low                  pin#5 ==> high impedance																																								
Phase Noise	<table border="1"> <thead> <tr> <th>Offset / dBc / Hz (typical)</th> <th>100 Hz</th> <th>1 kHz</th> <th>10 kHz</th> </tr> </thead> <tbody> <tr> <td>12.800 MHz</td> <td>-130 dBc / Hz</td> <td>-145 dBc / Hz</td> <td>-154 dBc / Hz</td> </tr> </tbody> </table>	Offset / dBc / Hz (typical)	100 Hz	1 kHz	10 kHz	12.800 MHz	-130 dBc / Hz	-145 dBc / Hz	-154 dBc / Hz																																
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Packing Unit	1000 pcs / reel																																								
Soldering Condition	260°C, 10 sec x2 max																																								

## OPTIONS & ORDERING INFORMATION

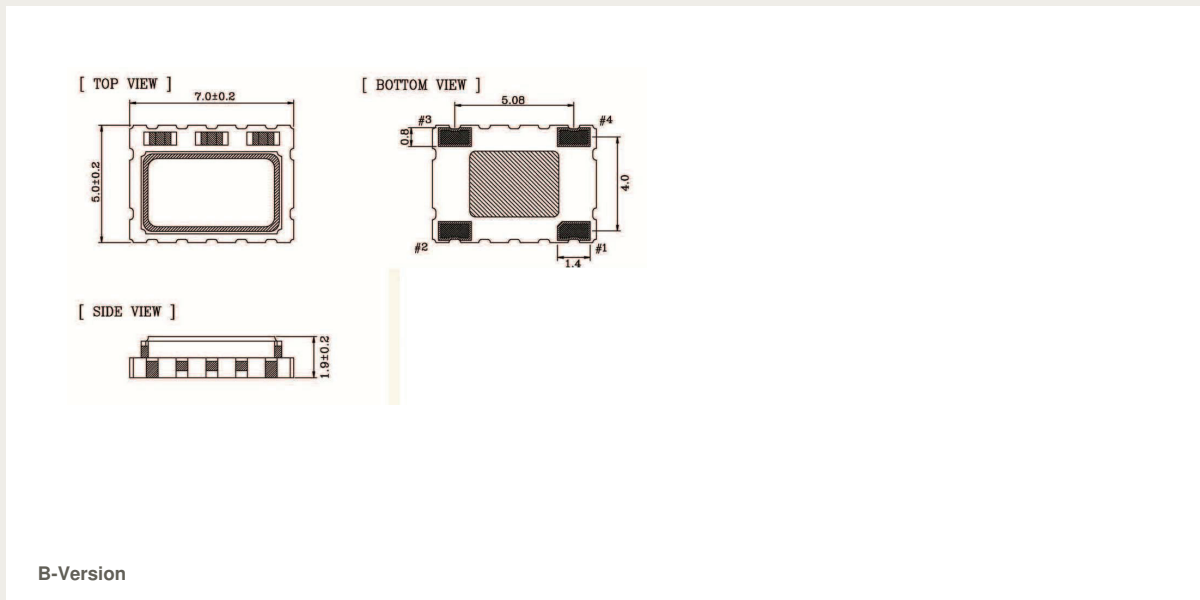
SX7SVTT	.....	- .....	- .....	.....	.....	..... MHz	
	Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function *	Package type	Pulling	Frequency in MHz
	<b>33</b> = +3.3V	<b>C</b> = 0° / +55°C	<b>0.05</b> = ±0.05 ppm	<b>E8</b> = Tri-state, pin #8	<b>A</b> = A-version	<b>05</b> = ±5 ppm min.	Please specify the frequency in MHz
	<b>50</b> = +5.0V	<b>D</b> = -10° / +60°C	<b>0.10</b> = ±0.10 ppm	<b>F</b> = No Tri-state	<b>B</b> = B-version		
		<b>F</b> = -10° / +70°C	<b>0.14</b> = ±0.14 ppm				
		<b>K</b> = -40° / +85°C	<b>0.20</b> = ±0.20 ppm				
			<b>0.28</b> = ±0.28 ppm				
			<b>0.37</b> = ±0.37 ppm				
			<b>0.50</b> = ±0.50 ppm				

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

# 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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