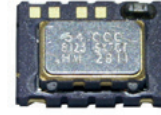


SX7SVT**CLIPPED SINE WAVE SURFACE MOUNT VCTCXO****FEATURES**

7.0 x 5.0 x 2.0 mm



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

Item	Specification																																										
Frequency Range	9.6 MHz to 50.0 MHz																																										
Output Logic	Clipped Sine Wave																																										
Supply Voltage Vdd (see options)	+2.8 V ±5% +3.0 V ±5% +3.3 V ±5% +5.0 V ±5%																																										
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>> 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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Frequency Tolerance	±2.0 ppm max. at 25°C ±2°C (one hour after reflow)																																										
Frequency Stability vs Temperature (see options)	<table border="0"> <thead> <tr> <th></th> <th>±0.5 ppm</th> <th>±1.0 ppm</th> <th>±1.5 ppm</th> <th>±2.0 ppm</th> <th>±2.5 ppm</th> <th>±3.0 ppm</th> </tr> </thead> <tbody> <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> </tr> <tr> <td>-20° to +70°C</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> </tr> <tr> <td>-30° to +75°C</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> <td>o</td> </tr> <tr> <td>-30° to +85°C</td> <td>◇</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>◇</td> <td>◇</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>		±0.5 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
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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	<table border="0"> <thead> <tr> <th>Offset / dBc / Hz</th> <th>100 Hz</th> <th>1 kHz</th> <th>10 kHz</th> </tr> </thead> <tbody> <tr> <td>(typical)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>13.0 MHz</td> <td>-115 dBc / Hz</td> <td>-135 dBc / Hz</td> <td>-148 dBc / Hz</td> </tr> </tbody> </table>	Offset / dBc / Hz	100 Hz	1 kHz	10 kHz	(typical)				13.0 MHz	-115 dBc / Hz	-135 dBc / Hz	-148 dBc / Hz																														
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Start-up Time	3 ms max.																																										
Voltage Control Function	<table border="0"> <tr> <td>Control Voltage Range</td> <td>Center voltage +1.5 V, range ±1.0V</td> </tr> <tr> <td>Frequency Pulling Range</td> <td>±5 ppm min.</td> </tr> <tr> <td>Linearity</td> <td>10 % max.</td> </tr> <tr> <td>Slope Polarity</td> <td>Positive</td> </tr> <tr> <td>Input Impedance</td> <td>100 kΩ min.</td> </tr> <tr> <td>Modulation Bandwidth</td> <td>3 kHz min. (at -3 dB)</td> </tr> </table>	Control Voltage Range	Center voltage +1.5 V, range ±1.0V	Frequency Pulling Range	±5 ppm min.	Linearity	10 % max.	Slope Polarity	Positive	Input Impedance	100 kΩ min.	Modulation Bandwidth	3 kHz min. (at -3 dB)																														
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Packing Unit	1000 pcs / reel																																										
Soldering Condition	260°C, 10 sec x2 max																																										

Customer specifications on request

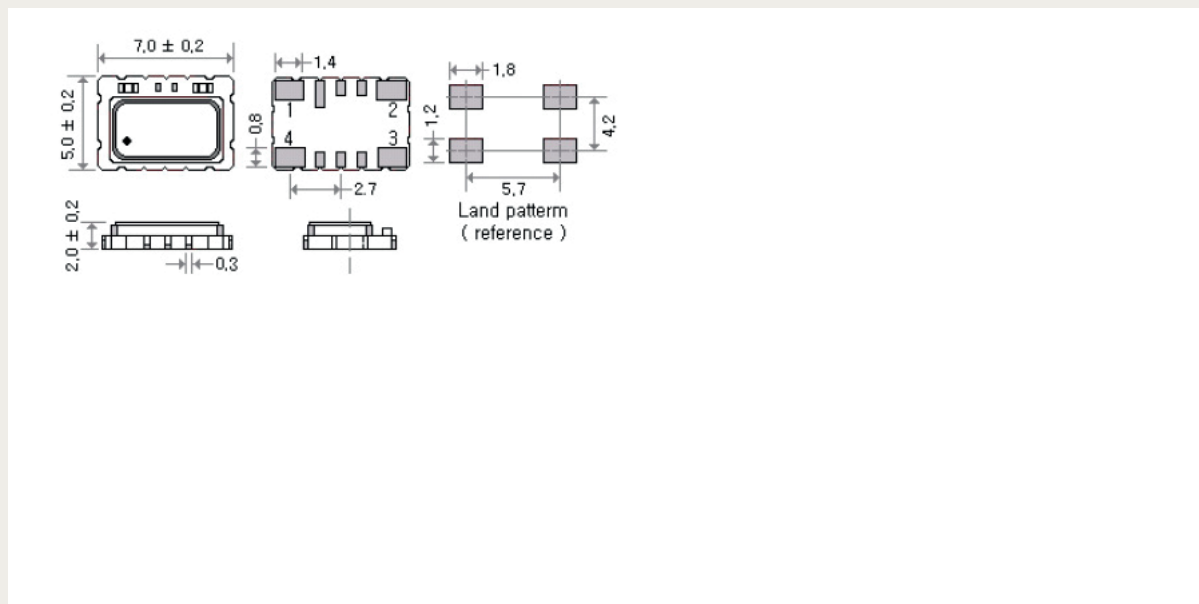
OPTIONS & ORDERING INFORMATION

SX7SVT						 MHz
Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling **	Frequency in MHz	
28 = +2.8V	D = -10° / +60°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	05 = ±5 ppm min.	Please specify the frequency in MHz	
30 = +3.0V	F = -20° / +70°C	1.0 = ±1.0 ppm					
33 = +3.3V	G = -30° / +75°C	1.5 = ±1.5 ppm					
50 = +5.0V	H = -30° / +85°C	2.0 = ±2.0 ppm					
	K = -40° / +85°C	2.5 = ±2.5 ppm					
		3.0 = ±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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