

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 _{dd} (see options)	+1.8 V ±5%	+2.5 V ±5%	+2.8 V ±5%	+3.0V ±5%	+3.3V ±5%		
Supply Current I _{dd}	≤ 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	Control Voltage Range		Center voltage 1/2 V _{dd} , range ±1.0V (±0.9V for 1.8V version)				
	Frequency Pulling Range		±9 ppm min. to ±15 ppm max.				
	Linearity		10 % max.				
	Slope Polarity		Positive				
Packing Unit	3000 pcs / reel						
Soldering Condition	260°C, 10 sec x2 max						
	Customer specifications on request						

OPTIONS & ORDERING INFORMATION

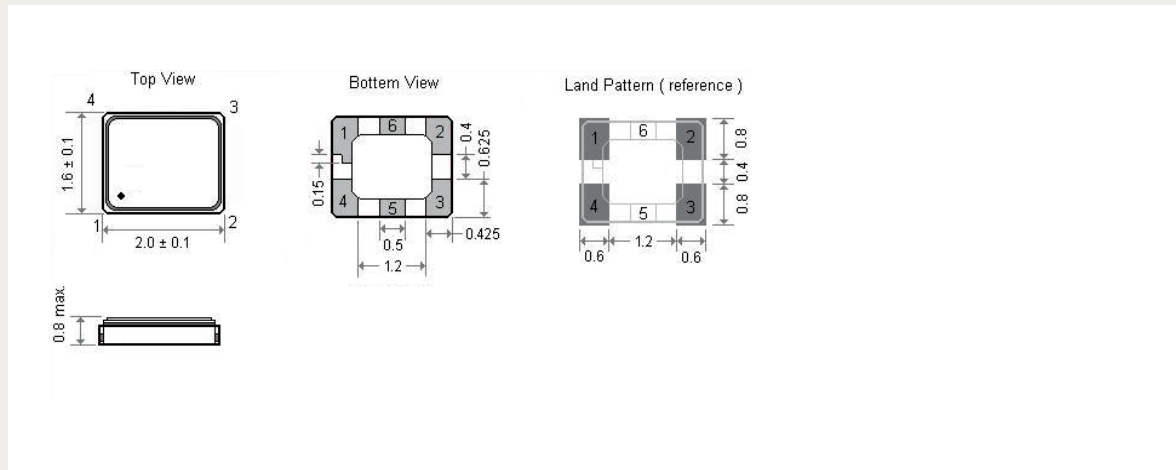
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Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling **	Frequency in MHz
18 = +1.8V	D = -10° / +60°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	09 = ±9 ppm min.	Please specify the frequency in MHz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