

## SX2ST

## CLIPPED SINE WAVE SURFACE MOUNT TCXO

### FEATURES

2.5 x 2.0 x 0.8 mm



- Ultra miniature package
- Tight stability
- External DC-Cut capacitor required
- Applications: GPS, Mobile phone, WLAN, ...

Item	Specification						
Frequency Range	10.0 MHz to 52.0 MHz						
Output Logic	Clipped Sine Wave						
Supply Voltage Vdd (see options)	+1.8 V ±5%	+2.5 V ±5%	+2.8 V ±5%	+3.0 V ±5%	+3.3 V ±5%		
Supply Current Idd	<b>≤ 26 MHz</b> <b>&gt; 26 MHz</b>	1.5 mA max. 2.0 mA max.					
Frequency Tolerance	±2.0 ppm max. at 25°C ±2°C (one hour after reflow)						
Frequency Stability vs Temperature ( see options )	<b>±0.5 ppm</b> <b>-10° to +60°C</b> <b>-20° to +70°C</b> <b>-30° to +75°C</b> <b>-30° to +85°C</b> <b>-40° to +85°C</b>	0 0 0 0 0 x	0 0 0 0 0 ◊	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
	<b>0 = availabe</b> ◊ = 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)	<b>100 Hz</b>	<b>1 kHz</b>	<b>10 kHz</b>			
	<b>19.2 MHz</b>	-115 dBc / Hz	-135 dBc / Hz	-148 dBc / Hz			
Start-up Time	3 ms max.						
Packing Unit	3000 pcs / reel						
Soldering Condition	260°C, 10 sec x2 max						
	<b>Customer specifications on request</b>						

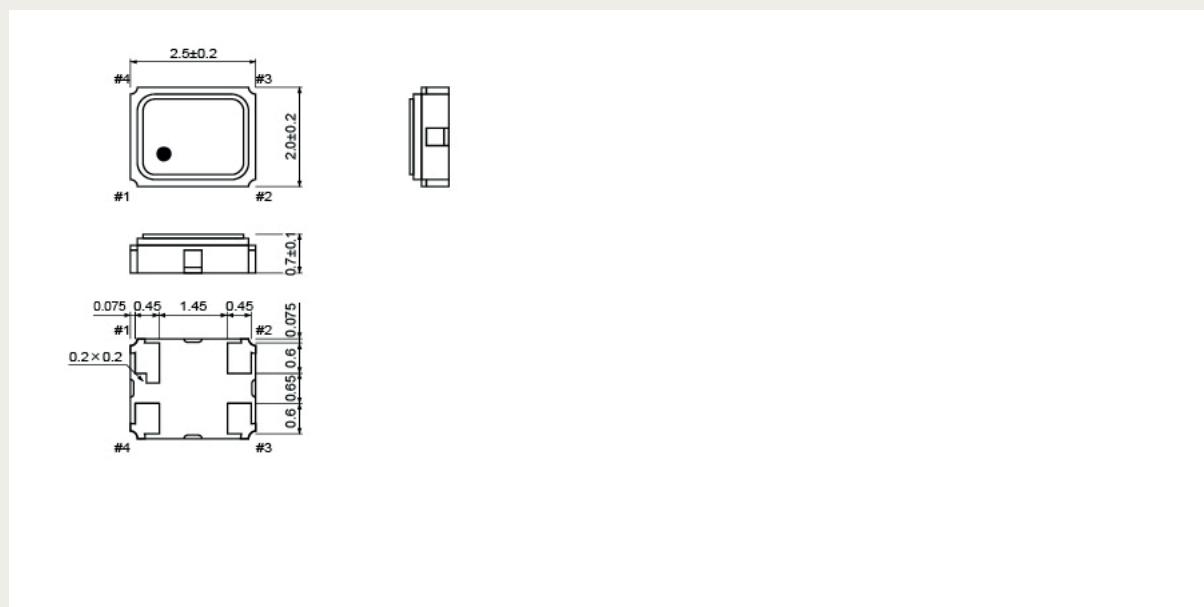
### OPTIONS & ORDERING INFORMATION

#### SX2ST

Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
<b>18 = +1.8V</b>	<b>D = -10° / +60°C</b>	<b>0.5 = ±0.5 ppm</b>	<b>F = No Tri-state</b>	<b>4P = 4-pad version</b>	Please specify the frequency in MHz
<b>25 = +2.5V</b>	<b>F = -20° / +70°C</b>	<b>1.0 = ±1.0 ppm</b>			
<b>28 = +2.8V</b>	<b>G = -30° / +75°C</b>	<b>1.5 = ±1.5 ppm</b>			
<b>30 = +3.0V</b>	<b>H = -30° / +85°C</b>	<b>2.0 = ±2.0 ppm</b>			
<b>33 = +3.3V</b>	<b>K = -40° / +85°C</b>	<b>2.5 = ±2.5 ppm</b> <b>3.0 = ±3.0 ppm</b>			

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

## OUTLINE DIMENSIONS



Pin Connections

#1 : GND

#2 : GND

#3: Output

#4 : Vdd