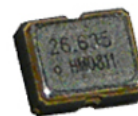


**Datasheet**
**SX2ST**
**CLIPPED SINE WAVE SURFACE MOUNT TCXO**
**FEATURES**
**2.5 x 2.0 x 0.7 mm**

- 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 V <sub>dd</sub> (see options)	+1.8 V ±5%	+2.5 V ±5%	+2.8 V ±5%	+3.0 V ±5%			
Supply Current I <sub>dd</sub>	≤ 26 MHz 1.5 mA max.		> 26 MHz 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)		±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	x	◇	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						
Phase Noise	Offset / dBc / Hz (typical)	100 Hz	1 kHz	10 kHz			
	19.2 MHz	-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						

**Customer specifications on request**
**OPTIONS & ORDERING INFORMATION**
**SX2ST**

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

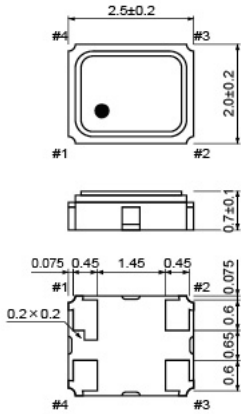
(\*) Note : Not all combinations are possible, please consult us.

**Datasheet**

**SX2ST**

**CLIPPED SINE WAVE SURFACE MOUNT TCXO**

**OUTLINE DIMENSIONS**



**Pin Connections**

**#1** : GND

**#2** : GND

**#3**: Output

**#4** : Vdd