

Datasheet

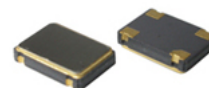
**SX3ST**

**CLIPPED SINE WAVE SURFACE MOUNT TCXO**

**FEATURES**

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

3.2 x 2.5 x 1.3 mm



Item	Specification						
Frequency Range	10.0 MHz to 52.0 MHz						
Output Logic	Clipped Sine Wave						
Supply Voltage V <sub>dd</sub> (see options)	+2.5 V ±5%	+2.8 V ±5%	+3.0 V ±5%	+3.3 V ±5%	+5.0 V ±5%		
Supply Current I <sub>dd</sub>	≤ 15 MHz	1.5 mA max.					
	15 - 26 MHz	2.0 mA max.					
	> 26 MHz	2.5 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	100 Hz	1 kHz	10 kHz	□	□	
	(typical)						
	13.0 MHz	-115 dBc / Hz	-135 dBc / Hz	-148 dBc / Hz			
Start-up Time	3 ms max.						
Packing Unit	2000 pcs / reel						
Soldering Condition	260°C, 10 sec x2 max						

**Customer specifications on request**

**OPTIONS & ORDERING INFORMATION**

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.....	.....	- ..... -	.....	..... -	..... MHz
Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
25 = +2.5V	D = -10° / +60°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	Please specify the frequency in MHz
28 = +2.8V	F = -20° / +70°C	1.0 = ±1.0 ppm			
30 = +3.0V	G = -30° / +75°C	1.5 = ±1.5 ppm			
33 = +3.3V	H = -30° / +85°C	2.0 = ±2.0 ppm			
50 = +5.0V	K = -40° / +85°C	2.5 = ±2.5 ppm			
		3.0 = ±3.0 ppm			

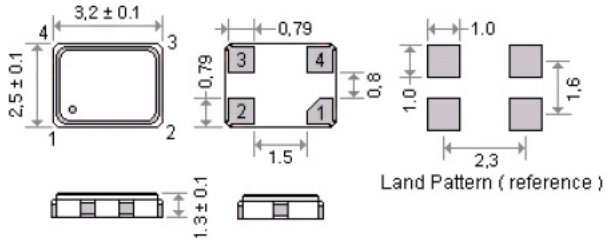
(\*) Note : Not all combinations are possible, please consult us.

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**OUTLINE DIMENSIONS**



**Pin Connections**    #1 : GND                      #2 : GND                      #3: Output                      #4 : Vdd