SX5ST — CLIPPED SINE WAVE SURFACE MOUNT TCXO

FEATURES

- Miniature package
- Tight stability
- Many options available
- Applications: GPS, Mobile phone, WLAN, ...

5.0 x 3.2 x 1.3 mm

Item	Specification					
Frequency Range	6.4 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	≤ 26 MHz 1.5 mA max. > 26 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

Frequency Stability vs Temperature	±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

o = available   ◊ = please contact us   x = not available

Item	Specification		
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**		
	13.0 MHz -115 dBc / Hz -135 dBc / Hz -148 dBc / Hz		
Start-up Time	3 ms max.		
Packing Unit	1000 pcs / reel		
Soldering Condition	260°C, 10 sec x2 max		
	Customer specifications on request		

OPTIONS & ORDERING INFORMATION

SX5ST .... - .... - .... - .... MHz

Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
18 = +1.8V	**D =** -10° / +60°C	**0.5 =** ±0.5 ppm	**F =** No Tri-state	**4P =** 4-pad version	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.

OUTLINE DIMENSIONS

Land Pattern (reference)
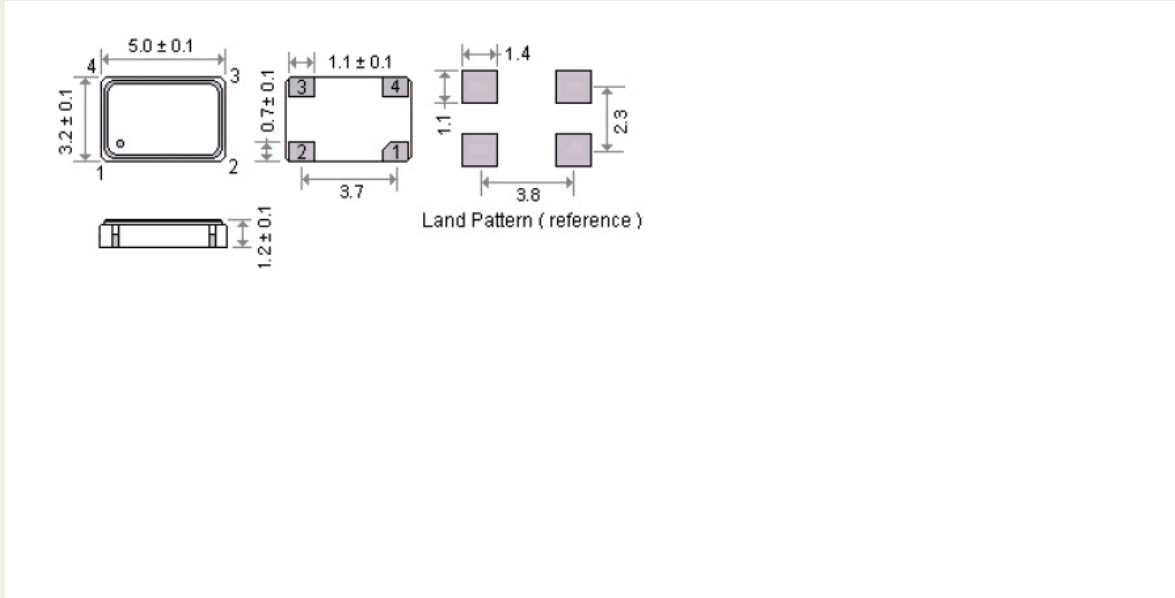
Pin Connections	#1 : NC	#2 : GND	#3: Output	#4 : Vdd