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 1.4 mm

Item	Specification						
Frequency Range	8.192 MHz to 52.0 MHz						
Output Logic	Clipped Sine Wave						
Supply Voltage Vdd (see options)	+1.8 V ±5%	+2.5 V ±5%	+3.0 V ±5%	+3.3 V ±5%			
Supply Current Idd	**≤ 15 MHz** 1.5 mA max. **15 - 26 MHz** 2.0 mA max. **> 26 MHz** 2.5 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 = availabe		**◊ =** 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**			
	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						

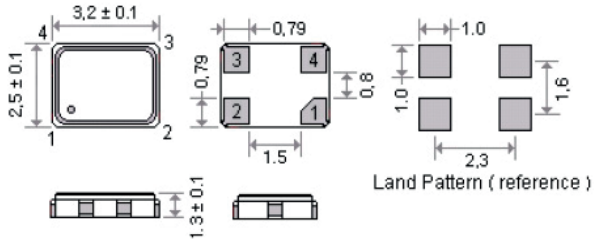
OPTIONS & ORDERING INFORMATION

SX3ST

.....	.....	- ..... -	.....	..... -	..... 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			
30 = +3.0V	**G =** -30° / +75°C	**1.5 =** ±1.5 ppm			
33 = +3.3V	**H =** -30° / +85°C	**2.0 =** ±2.0 ppm			
	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



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