

Datasheet

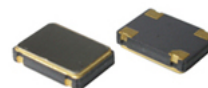
SX3ST

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 _{dd} (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 _{dd}	≤ 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
	-10° to +60°C	o	o	o	o	o
	-20° to +70°C	o	o	o	o	o
	-30° to +75°C	o	o	o	o	o
	-30° to +85°C	o	o	o	o	o
	-40° to +85°C	x	◊	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			

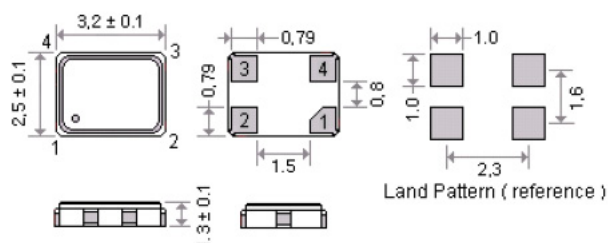
(*) Note : Not all combinations are possible, please consult us.

Rev. 09-2012

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OUTLINE DIMENSIONS



Pin Connections

#1 : GND

#2 : GND

#3: Output

#4 : Vdd