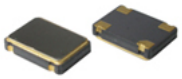
Datasheet

SX1ST CLIPPED SINE WAVE SURFACE MOUNT TCXO

FEATURES

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

2.0 x 1.6 x 0.7 mm



Item	Specification						
Frequency Range	16.368 MHz to 38.4 MHz						
Output Logic	Clipped Sine Wave						
Supply Voltage Vdd (see options)	+1.8 V ±5%	+2.5 V ±5%	+2.8 V ±5%				
Supply Current Idd	≤ 27.5 MHz	1.5 mA max.					
	> 27.5 MHz	1.7 mA max.					
Frequency Tolerance	±1.5 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
	-30° to +85°C	◊	o	o	o	o	o
	-40° to +85°C	x	◊	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	≥1.0 V p-p						
Output Load	10 kΩ // 10 pF						
Harmonics of output signal	-5 dBc max.						
Phase noise	-135 dBc/Hz typ. at 1 kHz offset						
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

SX1ST

.... - ..... - .... - ..... 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			
	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.

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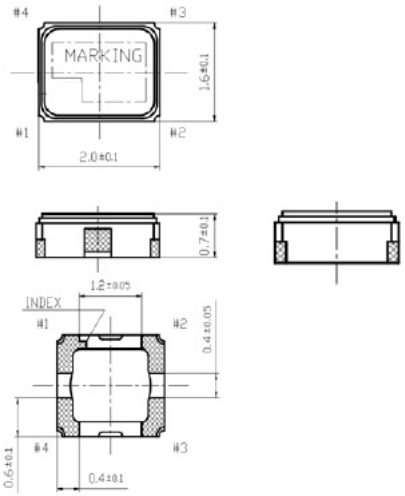
OUTLINE DIMENSIONS



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

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