HMI
Frequency Technology

ECO
European Crystal Organization
Frequency Technology

KLOVE
Frequency Technology

SX7ST — CLIPPED SINE WAVE SURFACE MOUNT TCXO

FEATURES

7.0 x 5.0 x 2.0 mm

- Miniature package
- Tight stability
- Low power consumption
- Applications: GPS, Mobile phone, WLAN, Base stations, ...

Item	Specification					
Frequency Range	5.0 MHz to 52.0 MHz					
Output Logic	Clipped Sine Wave					
Supply Voltage Vdd (see options)	+2.5 V ±5% +2.8 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	±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
	-40° to +85°C	◊	◊	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 **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	1000 pcs / reel					
Soldering Condition	260°C, 10 sec x2 max					
	Customer specifications on request					

OPTIONS & ORDERING INFORMATION

SX7ST .... - .... - .... - .... MHz

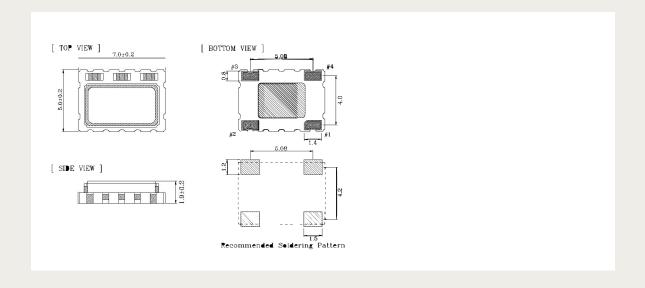| Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
25 = +2.5V	**D =** -10° / +60°C	**0.5 =** ±0.5 ppm	**F =** No Tri-state	**4P =** 4-pad version	Please specify the frequency in MHz
28 = +2.8V	**F =** -20° / +70°C	**1.0 =** ±1.0 ppm			
30 = +3.0V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

[TOP VIEW]
7.0±0.2
5.0±0.2

[BOTTOM VIEW]
5.08
0.8
#3
#4
4.0
#2
#1
1.4

[SIDE VIEW]
1.9±0.2

1.2
5.08
4.2
1.5
Recommended Soldering Pattern

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