

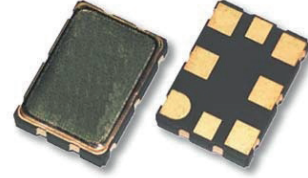
# SX7HF

## HCSSL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

### FEATURES

- 4 Frequencies Switchable
- Ultra-low Jitter
- Up to 700 MHz
- Short delivery

7.0 x 5.0 x 1.8 mm



Item	Specification		
Frequency Range	15.0 MHz~700 MHz		
Output Signal	HCSL		
Overall Frequency Stability*	± 25 ppm ~ ± 100 ppm (see options)		
Operating Temperature Range	0 ~ +70 °C commercial application (see options) -40 ~ +85 °C industrial application (see options)		
Supply Voltage Vdd	+1.8V ±5%	+2.5V ±10%	+3.3V ±10%
Supply Current Idd	95 mA typ.; 115 mA max.		
Output Voltage HIGH VOH	0.66 V min. , 1.15V max.		
Output Voltage LOW VOL	0.0 V min. , 0.15V max.		
Output Load	50 ohm to GND		
Symmetry	45/55%		
Rise Time / Fall Time Fr/Ff	0.4 ns max.		
Start-up Time	3 ms typ. ; 10 ms max.		
RMS Phase Jitter (12 kHz to 20 MHz)	150 fs typ.		
Frequency selection configurations	<b>FS1</b>	<b>FS0</b>	<b>Frequency output</b>
	0	0	Freq. 1
	0	1	Freq. 2
	1	0	Freq. 3
	1	1	Freq. 4
Frequency Select Timing	2.5 ms max.		
Packing Unit	1000pcs / reel		
Soldering Condition	260 °C , 10 sec x2 max		
	<b>Customer specifications on request</b>		

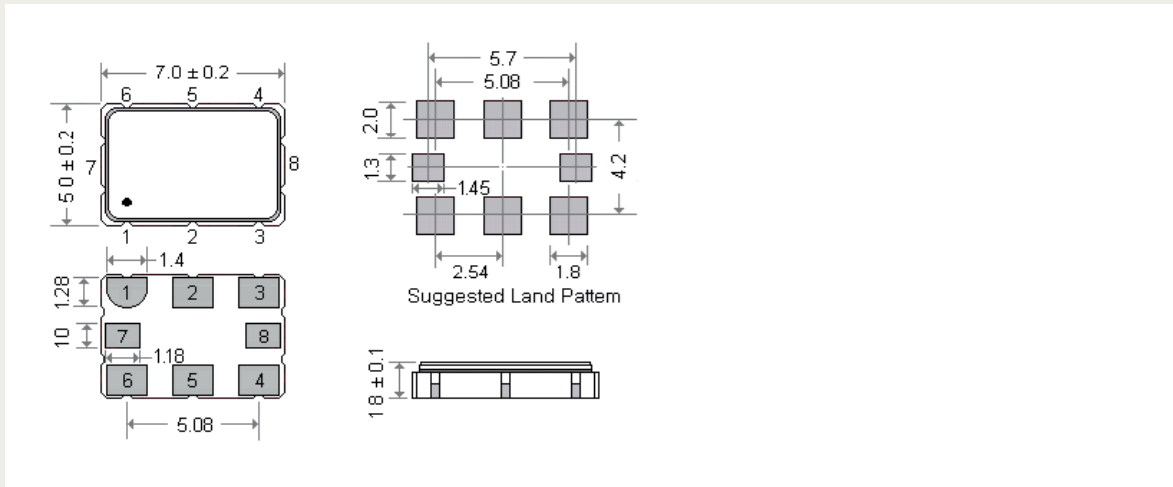
(\*) Includes initial tolerance @+25 °C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

## OPTIONS & ORDERING INFORMATION

SX7HF	Frequency 1 (MHz)	Frequency 2 (MHz)	Frequency 3 (MHz)	Frequency 4 (MHz)
Supply Voltage *	Operating Temp. * Overall Stability * Tri-state Function			
<b>18</b> = +1.8V	<b>E</b> = 0°/+70 °C	<b>20</b> = ±20 ppm	<b>F</b> = No Tri-state	
<b>25</b> = +2.5V	<b>F</b> = -20°/+70 °C	<b>25</b> = ±25 ppm		
<b>33</b> = +3.3V	<b>K</b> = -40°/+85 °C	<b>30</b> = ±30 ppm		
		<b>50</b> = ±50 ppm		
		<b>100</b> = ± 100ppm		

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

## OUTLINE DIMENSIONS



### Pin Connections

#1 : FS0 Control	#2 : FS1 Control	#3: GND
#4 : Output	#5 : Complementary output	#6: Vdd
#7 : Do not connect	#8 : Do not connect	