

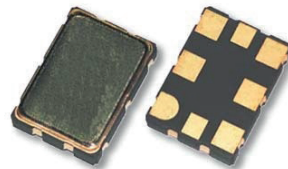
# SX7CF

## CMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

### FEATURES

- 4 Frequencies Switchable Oscillator
- Ultra-low Jitter
- Up to 250 MHz
- Short delivery

7.0 x 5.0 x 1.8 mm



Item	Specification															
Frequency Range	15.0 MHz ~ 250 MHz															
Output Signal	CMOS															
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 ±5%      +3.3V ±10%															
Supply Current Idd	75 mA typ.															
Output Level	VOH ≥ 0.9 Vdd      VOL ≤ 0.1 Vdd															
Output Load	15 pF															
Symmetry	45 / 55 %															
Rise Time / Fall Time   Fr/Ff	5.0 ns max.															
Start-up Time	3 ms typ. ; 10 ms max.															
RMS Jitter (12 kHz to 20 MHz band)	150 fs typ.															
Frequency selection configurations	<table><tr><th>FS1</th><th>FS0</th><th>Frequency output</th></tr><tr><td>0</td><td>0</td><td>Freq. 1</td></tr><tr><td>0</td><td>1</td><td>Freq. 2</td></tr><tr><td>1</td><td>0</td><td>Freq. 3</td></tr><tr><td>1</td><td>1</td><td>Freq. 4</td></tr></table>	FS1	FS0	Frequency output	0	0	Freq. 1	0	1	Freq. 2	1	0	Freq. 3	1	1	Freq. 4
FS1	FS0	Frequency output														
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															
	Customer specifications on request															

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

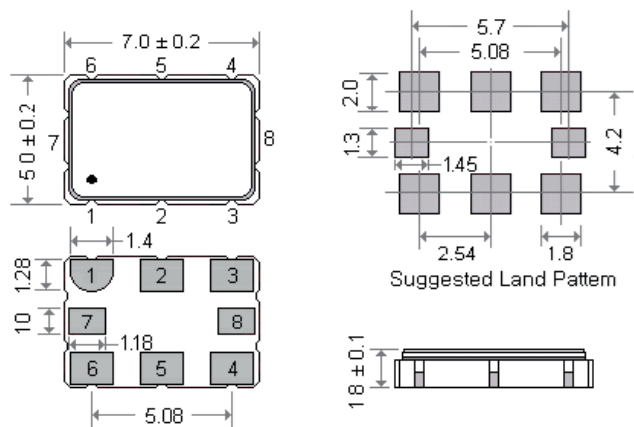
### OPTIONS & ORDERING INFORMATION

#### SX7CF

Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency 1 (MHz)	Frequency 2 (MHz)	Frequency 3 (MHz)	Frequency 4 (MHz)
<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> = ±100 ppm					

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

## OUTLINE DIMENSIONS (mm)



### Pin Connections

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