

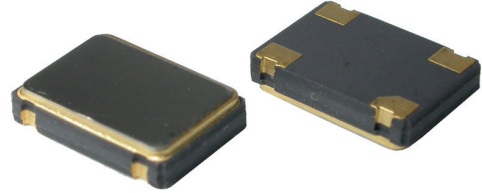
## SX5PF

# PROGRAMMABLE CMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

## FEATURES

- Short Lead Time, 1-2 days
- Low Jitter: 0.9 ps typ.
- 1.8V, 2.5V or 3.3V supply voltages

5.0 x 3.2 x 1.3 mm



Item	Specification		
Frequency Range	1.0 MHz ~ 200 MHz		
Output Signal	CMOS		
Overall Frequency Stability *	± 25 ppm ~ ± 100 ppm ( see options )		
Operating Temperature Range	-20° ~ +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	40 mA max.		
Output Level	VOH ≥ 0.9Vdd	VOL ≤ 0.1 Vdd	
Output Load	15 pF		
Symmetry	45 / 55 %		
Rise / Fall time Fr/Ff	3.0 ns max.		
Tri-state Enable ( See options )	pin #1 = high or open pin #1 = low	pin #3 ==>	oscillation disable
Tri-state Power Down ( See options )	pin #1 = high or open pin #1 = low	pin #3 ==>	oscillation disable
Disable Stand-by current	22 mA max		
Disable Power Down current	400 µA max		
Start-up Time	4 ms typ. ; 10 ms max.		
RMS Phase Jitter ( 12 kHz to 20 MHz )	900 fs typ.		
Phase Noise ( typical )	Offset	Frequency :	125.000 MHz
	10 Hz		-61 dBc / Hz
	100 Hz		-89 dBc / Hz
	1 kHz		-110 dBc / Hz
	10 kHz		-120 dBc / Hz
	100 kHz		-120 dBc / Hz
	1 MHz		-142 dBc / Hz
10 MHz		-149 dBc / Hz	
Packing Unit	1000pcs / reel		
Soldering Condition	260°C , 10 sec x2 max		

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

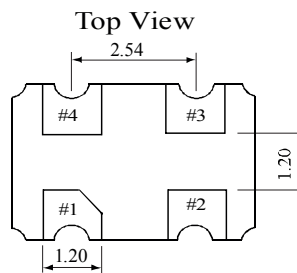
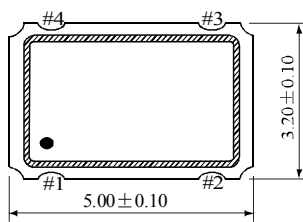
**Customer specifications on request**

## OPTIONS & ORDERING INFORMATION

<b>SX5PF</b>				-	.....MHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz	
<b>18</b> = +1.8V	<b>F</b> = -20° / +70°C	<b>25</b> = ±25 ppm	<b>E</b> = Tri-state Enable	Please specify the frequency in MHz	
<b>25</b> = +2.5V	<b>K</b> = -40° +85°C	<b>50</b> = ±50 ppm	<b>B</b> = Tri-state Power Down		
<b>33</b> = +3.3V		<b>100</b> = ±100 ppm			

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

## OUTLINE DIMENSIONS (MM)



### Pin Connections

- #1 : E/D
- #2 : GND
- #3: Output
- #4 :Vdd

### Recommended Solder Pattern

