

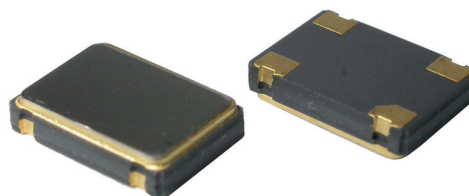
## SX3PF

# 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

3.2 x 2.5 x 1.0 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	-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 ≤ 0.1Vdd
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 #3 ==> oscillation pin #1 = low                                      pin #3 ==> disable
Tri-state Power Down ( See options )	pin #1 = high or open                      pin #3 ==> oscillation pin #1 = low                                      pin #3 ==> 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>SX3PF</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

Top View

Bottom View

Suggested Land Pattern