

SX7PF

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

7.0 x 5.0 x 1.5 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 #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

SX7PF				-MHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz	
18 = +1.8V	F = -20° / +70°C	25 = ±25 ppm	E = Tri-state Enable	Please specify the frequency in MHz	
25 = +2.5V	K = -40° +85°C	50 = ±50 ppm	B = Tri-state Power Down		
33 = +3.3V		100 = ±100 ppm			

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

OUTLINE DIMENSIONS (MM)

Top View
Dimensions: 7.0 ± 0.2 (width), 5.0 ± 0.2 (height), 1.4 (pin width), 1.0 (pin height), 5.08 (pin pitch), 1.8 (pin width).

Bottom View
Dimensions: 1.4 (pin width), 1.0 (pin height), 5.08 (pin pitch).

Land Pattern
Dimensions: 1.8 (pin width), 2.0 (pin height), 5.08 (pin pitch), 4.2 (total width).

Pin Connections

#1 : E/D

#2 : GND

#3 : Output

#4 : Vdd