

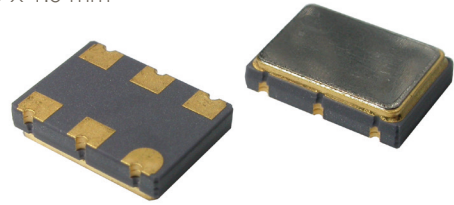
**SX7EP**

**LVPECL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR**

**FEATURES**

- Standard miniature package
- Programmable oscillator
- One day delivery

7.0 x 5.0 x 1.8 mm



Item	Specification	
Frequency Range	10.0 MHz ~ 1450 MHz	
Output Signal	LVPECL	
Overall Frequency Stability *	± 20 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	+2.5V ±5%	+3.3V ±5%
Supply Current Idd	30 mA typ. ; 50 mA max	
Output Voltage HIGH VOH	Vdd -1.025 V min. ; Vdd -0.95 V typ. ; Vdd -0.88 V max	
Output Voltage LOW VOL	Vdd -1.810 V min. ; Vdd -1.70 V typ. ; Vdd -1.62 V max	
Output Load	50 ohm to Vdd-2V	
Symmetry	45 / 55 %	
Rise / Fall time Fr/Ff	0.3 ns typ. ; 0.5 ns max.	
Tri-state function	pin #1 = high or open pin #1 = low	pin #4 - #5 ==> oscillation pin #4 - #5 ==> high impedance
Start-up Time	3 ms typ. ; 10 ms max.	
Integrated Phase Jitter (12 kHz to 20 MHz band )	1.2 ps typ.	
Phase Noise ( typical )	<b>Offset</b>	<b>Frequency 156.250 MHz</b>
	10 Hz	-65 dBc / Hz
	100 Hz	-95 dBc / Hz
	1 kHz	-115 dBc / Hz
	10 kHz	-120 dBc / Hz
100 kHz	-120 dBc / Hz	
Packing Unit	1000pcs / reel	
Soldering Condition	260°C , 10 sec x2 max	

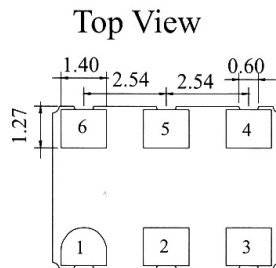
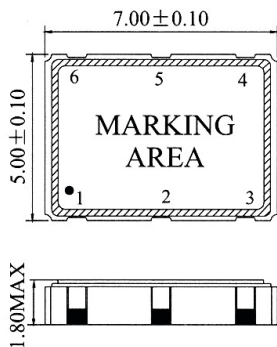
(\*) Includes initial tolerance @+25°C , stability over operating temperature , stability vs. load change , stability vs. supply change and one year aging

## OPTIONS & ORDERING INFORMATION

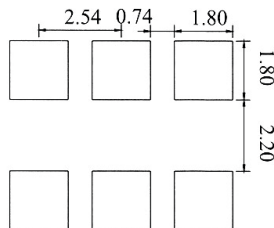
SX7EP					MHz
	Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
	<b>25</b> = +2.5 V <b>33</b> = +3.3 V	<b>E</b> = 0° / +70°C <b>F</b> = -20° / +70°C <b>K</b> = -40° / +85°C	<b>20</b> = ±20 ppm <b>25</b> = ±25 ppm <b>30</b> = ±30 ppm <b>50</b> = ±50 ppm <b>100</b> = ±100 ppm	<b>E</b> = Tri-state	Please specify the frequency in MHz

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

## OUTLINE DIMENSIONS (MM)



### Recommended Solder Pattern



### Pin Connections

- #1 : E/D
- #2 : NC
- #3: GND
- #4 : Output
- #5 : Complementary output
- #6 : Vdd