

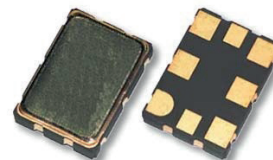
# SX5LU

## LVDS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

### FEATURES

- Standard miniature package
- Ultra-low Jitter
- Up to 2100 MHz
- Short delivery

5.0 x 3.2 x 1.3 mm



Item	Specification				
Frequency Range	150.0 MHz ~ 2100 MHz				
Output Signal	LVDS				
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	+1.8V ±5%	+2.5V ±10%	+3.3V ±10%		
Supply Current Idd	75 mA typ. ; 90 mA max.				
Output Voltage HIGH VOH	1.43 V typ. ; 1.6 V max.				
Output Voltage LOW VOL	1.10 V typ. ; 0.9 V min.				
Output Load	50 ohm from each output				
Symmetry	45/ 55%				
Rise Time/Fall Time Fr/Ff	0.35 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.				
RMS Phase Jitter (12 kHz to 20 MHz)	150 fs typ. , 300 fs max				
Phase Noise ( typical )	<b>Offset</b>	<b>Frequency:</b>	<b>156.250 MHz</b>	<b>491.520 MHz</b>	<b>1500 MHz</b>
	10 Hz		-70 dBc / Hz	- 62 dBc / Hz	- 54 dBc / Hz
	100 Hz		-100 dBc / Hz	-92 dBc / Hz	- 85 dBc / Hz
	1 kHz		-120 dBc / Hz	-110 dBc / Hz	- 105 dBc / Hz
	10 kHz		-135 dBc / Hz	-120 dBc / Hz	- 111 dBc / Hz
	100 kHz		-142 dBc / Hz	-130 dBc / Hz	- 120 dBc / Hz
	1 MHz		-149 dBc / Hz	-140 dBc / Hz	- 130 dBc / Hz
	10 MHz		-156 dBc / Hz	-153 dBc / Hz	- 149 dBc / Hz
Packing Unit	1000pcs / reel				
Soldering Condition	260°C , 10 sec x2 max				
<b>Customer specifications on request</b>					

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

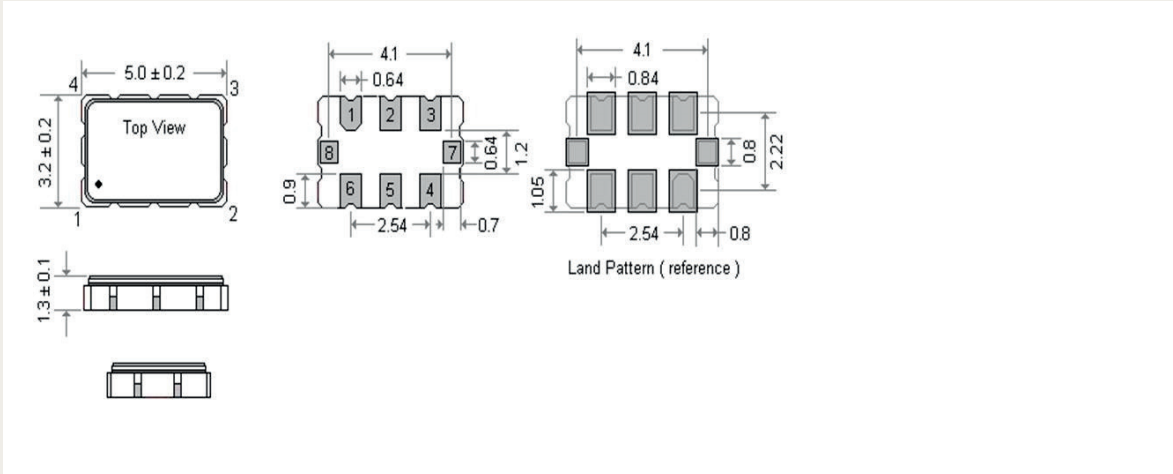
## OPTIONS & ORDERING INFORMATION

### SX5LU

.....	.....	.....	.....	..... MHz
Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
<b>18</b> = +1.8V	<b>E</b> = 0°/+70°C	<b>20</b> = ±20 ppm	<b>E</b> = Tri-state	Please specify the frequency in MHz
<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 : E/D	#2 : NC	#3: GND
#4 : Output	#5 : Complementary output	#6: Vdd
#7 : NC	#8 : NC	