

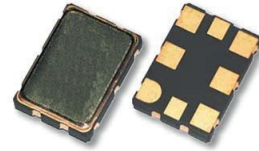
# SX5EU

## LVPECL 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	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	100 mA typ. ; 120 mA max					
Output Voltage HIGH VOH	Vdd -1.165 V min. ; Vdd -0.8 V max					
Output Voltage LOW VOL	Vdd -2.0 V min. ; Vdd -1.55 V max					
Output Load	50 ohm to Vdd-2V					
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>	<b>2100 MHz</b>
	10 Hz		-70 dBc / Hz	- 62 dBc / Hz	- 54 dBc / Hz	- 48 dBc / Hz
	100 Hz		-100 dBc / Hz	-92 dBc / Hz	- 85 dBc / Hz	- 80 dBc / Hz
	1 kHz		-120 dBc / Hz	-110 dBc / Hz	- 105 dBc / Hz	- 100 dBc / Hz
	10 kHz		-135 dBc / Hz	-120 dBc / Hz	- 111 dBc / Hz	- 107 dBc / Hz
	100 kHz		-142 dBc / Hz	-130 dBc / Hz	- 120 dBc / Hz	- 117 dBc / Hz
	1 MHz		-149 dBc / Hz	-140 dBc / Hz	- 130 dBc / Hz	- 125 dBc / Hz
	10 MHz		-156 dBc / Hz	-153 dBc / Hz	- 149 dBc / Hz	- 148 dBc / Hz
Packing Unit	1000pcs / reel					
Soldering Condition	260 °C , 10 sec x2 max					
	<b>Customer specifications on request</b>					

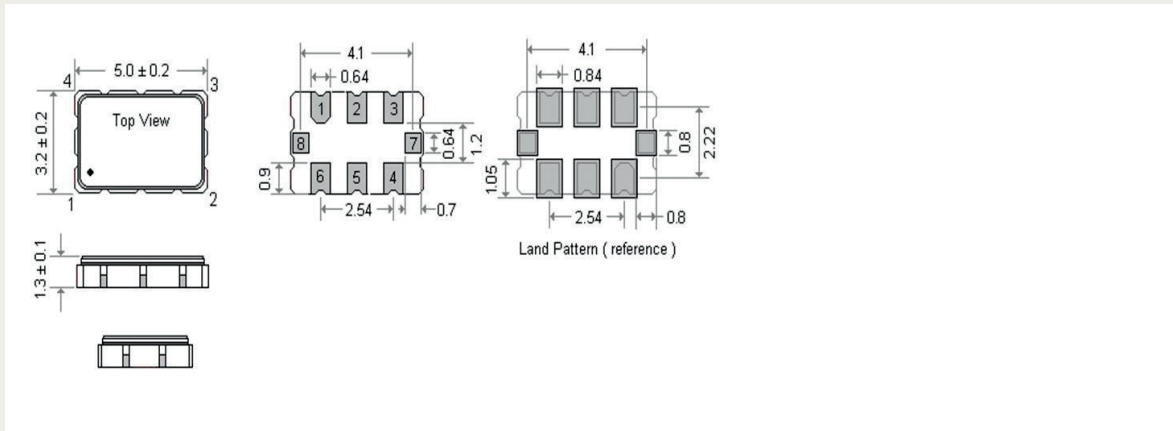
(\*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

## OPTIONS & ORDERING INFORMATION

SX5EU .....	.....	.....	..... -	..... MHz
Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
25 = +2.5V	E = 0°/+70 °C	20 = ±20 ppm	E = Tri-state	Please specify the frequency in MHz
33 = +3.3V	F = -20°/+70 °C	25 = ±25 ppm		
	K = -40°/+85 °C	30 = ±30 ppm		
		50 = ±50 ppm		
		100 = ±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