

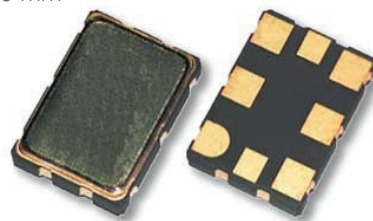
SX7LUV

LVDS SURFACE MOUNT VOLTAGE CONTROLLED CRYSTAL CLOCK OSCILLATOR

FEATURES

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

7.0 x 5.0 x 1.8 mm



Item	Specification				
Frequency Range	15.0 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%		
Control voltage center	+0.9V	+1.25V	+1.65V		
Control voltage range	0.18V to 1.62V	0.25V to 2.25V	0.3V to 3.0V		
Supply Current Idd	75 mA typ. ; 90 mA max				
Output Voltage HIGH VOH	1.43V typ. , 1.6V max.				
Output Voltage LOW VOL	1.10V typ. , 0.9V min.				
Output Load	50 ohm from each output				
Symmetry	45 / 55 %				
Rise / Fall time Fr/Ff	0.35 ns max.				
Tri-state function	pin #2 = high or open pin #2 = 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)	Offset	156.250 MHz	491.520 MHz	1500 MHz	2100 MHz
	10 Hz	-39 dBc / Hz	-20 dBc / Hz	-15 dBc / Hz	-18 dBc / Hz
	100 Hz	-75 dBc / Hz	-50 dBc / Hz	-55 dBc / Hz	-50 dBc / Hz
	1 kHz	-99 dBc / Hz	-83 dBc / Hz	-80 dBc / Hz	-80 dBc / Hz
	10 kHz	-123 dBc / Hz	-112 dBc / Hz	-105 dBc / Hz	-100 dBc / Hz
	100 kHz	-139 dBc / Hz	-128 dBc / Hz	-120 dBc / Hz	-117 dBc / Hz
	1 MHz	-149 dBc / Hz	-140 dBc / Hz	-130 dBc / Hz	-125 dBc / Hz
	10 MHz	-157 dBc / Hz	-153 dBc / Hz	-149 dBc / Hz	-145 dBc / Hz
Frequency Pulling Range	±50 ppm min. ; ±250 ppm max. (see options)				
Linearity	1% typical ; 10% max.				
Slope Polarity	Positive (Increasing control voltage always increases output frequency)				
Modulation bandwidth	10 kHz min (-3 dB)				
Input impedance	5 MΩ typ.				
Harmonics	-5.0 dBc max.				
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

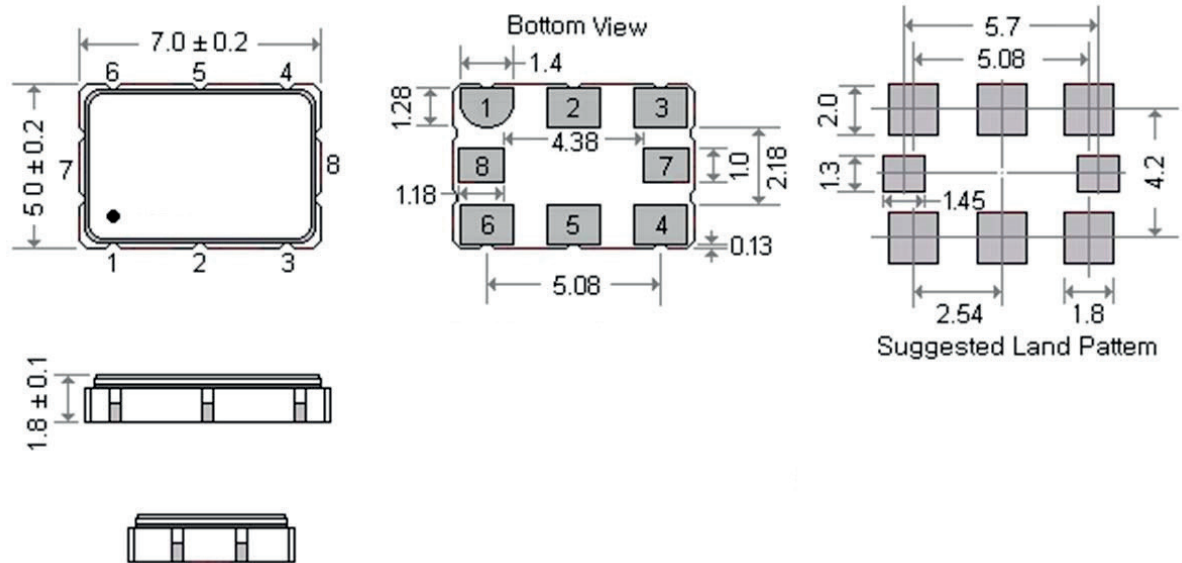
Customer specifications on request

OPTIONS & ORDERING INFORMATION

SX7LUV						MHz
	Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Pulling *	Frequency in MHz
	18 = +1.8V	E = 0° / +70°C	20 = ±20 ppm	E = Tri-state	50 = ±50 ppm min.	Please specify the frequency in MHz
	25 = +2.5V	F = -20° / +70°C	25 = ±25 ppm		100 = ±100 ppm min.	
	33 = +3.3V	K = -40° / +85°C	30 = ±30 ppm		150 = ±150 ppm min.	
			50 = ±50 ppm		200 = ±200 ppm min.	
			100 = ±100 ppm		250 = ±250 ppm min.	

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

OUTLINE DIMENSIONS (MM)



Pin Connections

#1 : Control Voltage

#2 : E/D

#3: GND

#4 : Output

#5 : Complementary output

#6 :Vdd

#7 : NC

#8 : NC