

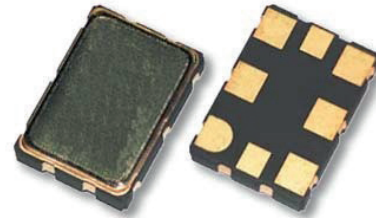
SX7LUV

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	Frequency	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

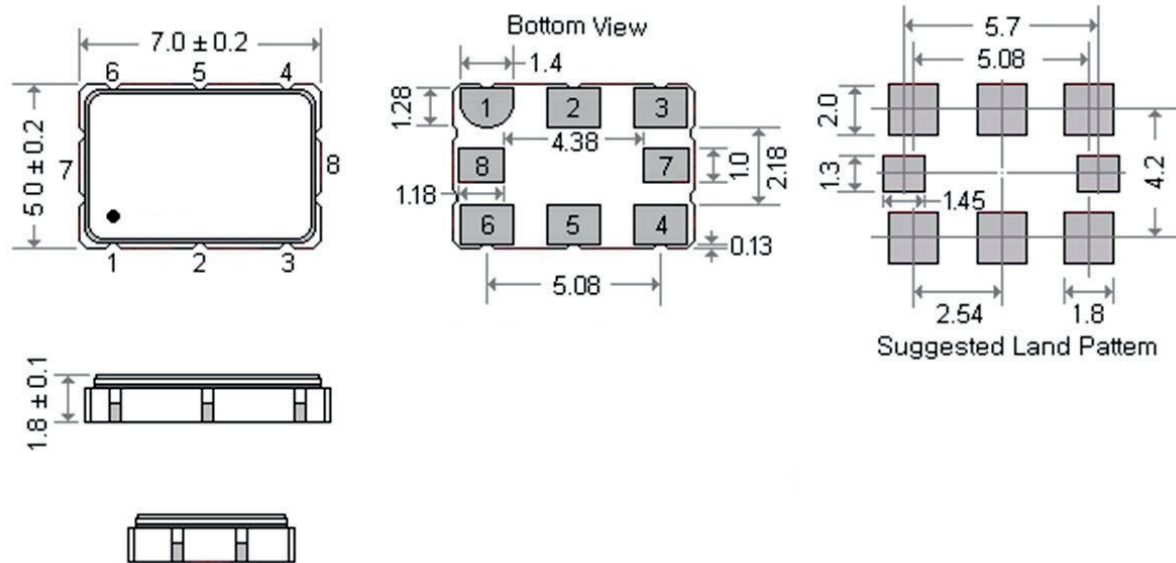
Customer specifications on request

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