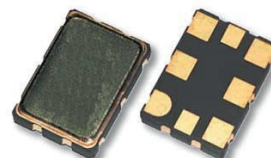


SX5LUV LVDS SURFACE MOUNT VOLTAGE CONTROLLED CRYSTAL CLOCK OSCILLATOR

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	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	+0.9 V	+1.25 V	+1.65 V			
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	1.43 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 / Fall time Fr/Ff	0.35 ns max.					
Tri-state function	pin #2 = high or open		pin #4 - #5 ==> oscillation			
	pin #2 = low		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 typ. (-3 dB)					
Input impedance	5 MΩ min.					
Harmonics	-5.0 dBc max.					
Packing Unit	1000pcs / reel					
Soldering Condition	260 °C , 10 sec x2 max					
	Customer specifications on request					

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

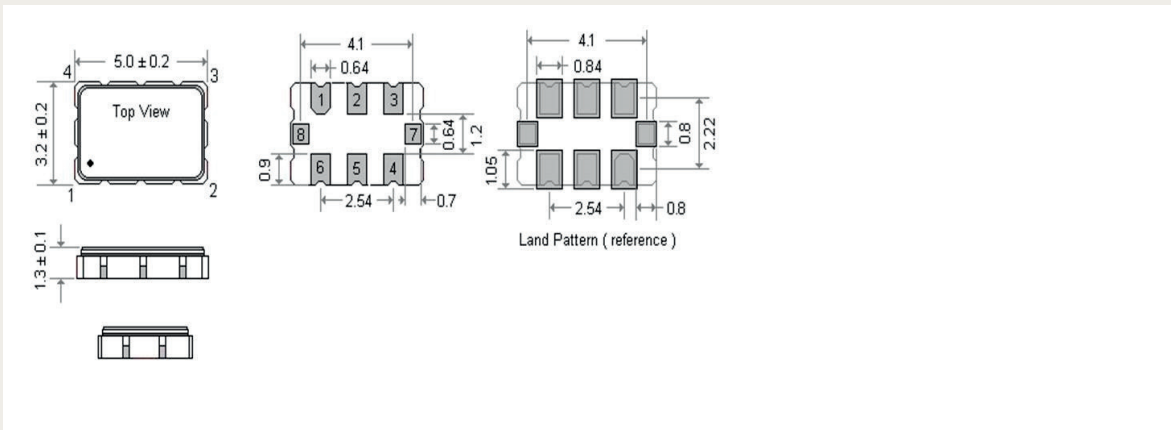
OPTIONS & ORDERING INFORMATION

SX5LUV

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