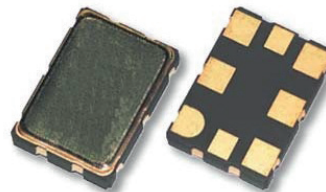# SX7LF — LVDS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

7.0 x 5.0 x 1.8 mm

- 4 Frequencies Switchable Oscillator
- Ultra-low Jitter
- Up to 2100 MHz
- Short delivery

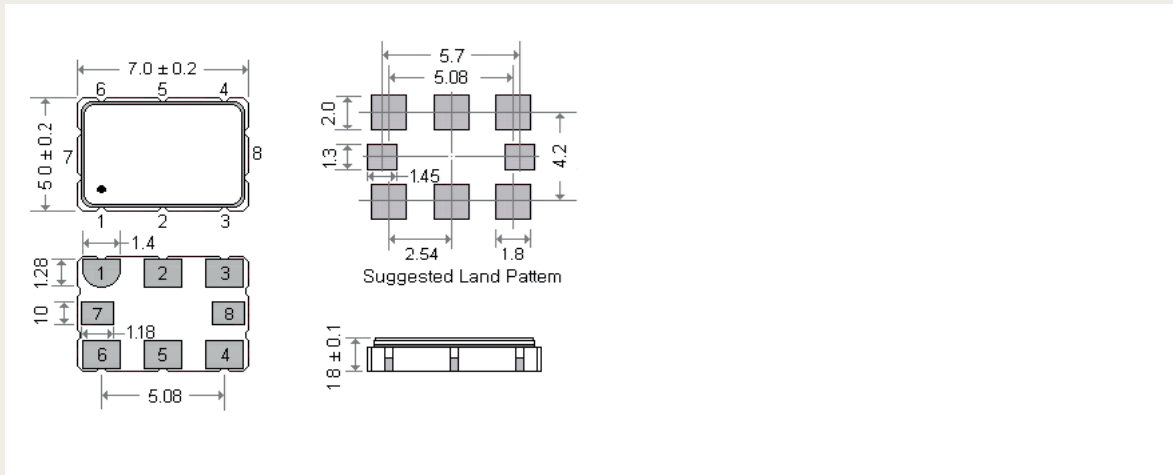| Item	Specification		
Frequency Range	15.0 MHZ ~ 2100 MHz		
Output Signal	LVDS		
Overall Frequency Stability*	± 25 ppm ~ ± 100 ppm (see options)		
Operating Temperature Range	0 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application (see options)		
Supply Voltage Vdd	+2.5V ±10%		+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.		
Start-up Time	3 ms typ. ; 10 ms max.		
RMS Phase Jitter (12 kHz to 20 MHz)	150 fs typ.		
Frequency selection configurations	**FS1** 0 0 1 1	**FS0** 0 1 0 1	**Frequency output** Freq. 1 Freq. 2 Freq. 3 Freq. 4
Frequency Select Timing	2.5 ms 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

SX7LF	....	....	....	.... -	Frequency 1 (MHz)	Frequency 2 (MHz)	Frequency 3 (MHz)	Frequency 4 (MHz)
	Supply Voltage*	Operating Temp. *	Overall Stability *	Tri-state Function				
	25 = +2.5V	**E =** 0°/+70°C	**20 =** ±20 ppm	**F =** No Tri-state				
	33 = +3.3V	**F =** -20°/+70°C	**25 =** ±25 ppm					
		K = -40°/+85°C	**30 =** ±30 ppm					
			50 = ±50 ppm					
			100 = ± 100ppm					

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

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SGS ISO 9001 SYSTEM CERTIFICATION

OUTLINE DIMENSIONS (mm)

Suggested Land Pattern

Pin Connections			
	#1 : FS0 Control	**#2** : FS1 Control	**#3**: GND
	#4 : Output	**#5** : Complementary output	**#6**: Vdd
	#7 : Do not connect	**#8** : Do not connect	