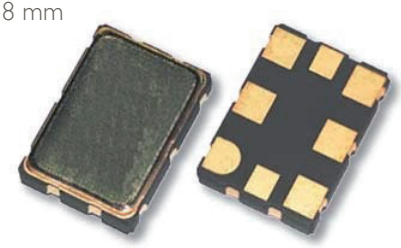
HMI Frequency Technology | ECO European Crystal Organization Frequency Technology | KLOVE Frequency Technology

SX7LU — LVDS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Ultra-low Jitter
- Up to 2100 MHz
- Short delivery

7.0 x 5.0 x 1.8 mm



Item	Specification
Frequency Range	150.0 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%
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	1.1 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 #1 = high or open — pin #4 - #5 ==> oscillation pin #1 = 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
10 Hz	-70 dBc / Hz	-62 dBc / Hz	-54 dBc / Hz
100 Hz	-100 dBc / Hz	-92 dBc / Hz	-85 dBc / Hz
1 kHz	-120 dBc / Hz	-110 dBc / Hz	-105 dBc / Hz
10 kHz	-135 dBc / Hz	-120 dBc / Hz	-111 dBc / Hz
100 kHz	-142 dBc / Hz	-130 dBc / Hz	-120 dBc / Hz
1 MHz	-149 dBc / Hz	-140 dBc / Hz	-130 dBc / Hz
10 MHz	-156 dBc / Hz	-153 dBc / Hz	-149 dBc / Hz

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

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ISO 9001 SYSTEM CERTIFICATION SGS

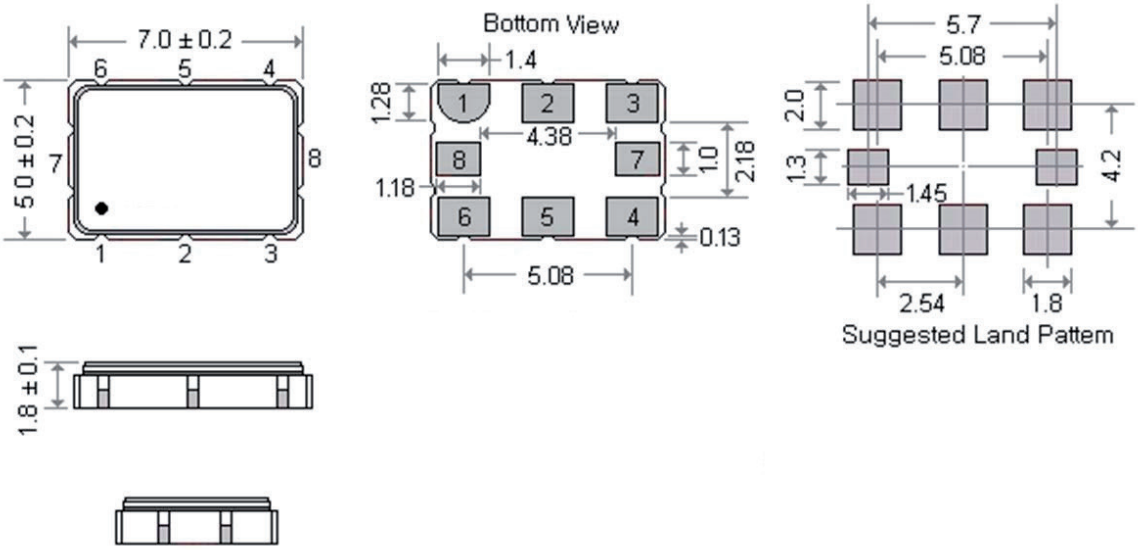
OPTIONS & ORDERING INFORMATION

SX7LU .... MHz

Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
18 = +1.8V	E = 0° / +70°C	20 = ±20 ppm	E = Tri-state	Please specify the frequency in MHz
25 = +2.5V	F = -20° / +70°C	25 = ±25 ppm		
33 = +3.3V	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

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