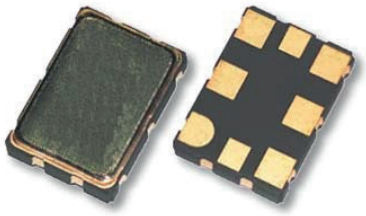
HMI Frequency Technology | ECO Frequency Technology | KLOVE Frequency Technology

SX7EU LVPECL SURFACE MOUNT 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	150.0 MHz ~ 2100 MHz
Output Signal	LVPECL
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	+2.5V ±5% +3.3V ±5%
Supply Current Idd	100 mA typ. ; 120 mA max
Output Voltage HIGH VOH	Vdd -1.165 V min. ; Vdd -0.8 V max
Output Voltage LOW VOL	Vdd -2.0 V min. ;Vdd -1.55 V max
Output Load	50 ohm to Vdd-2V
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

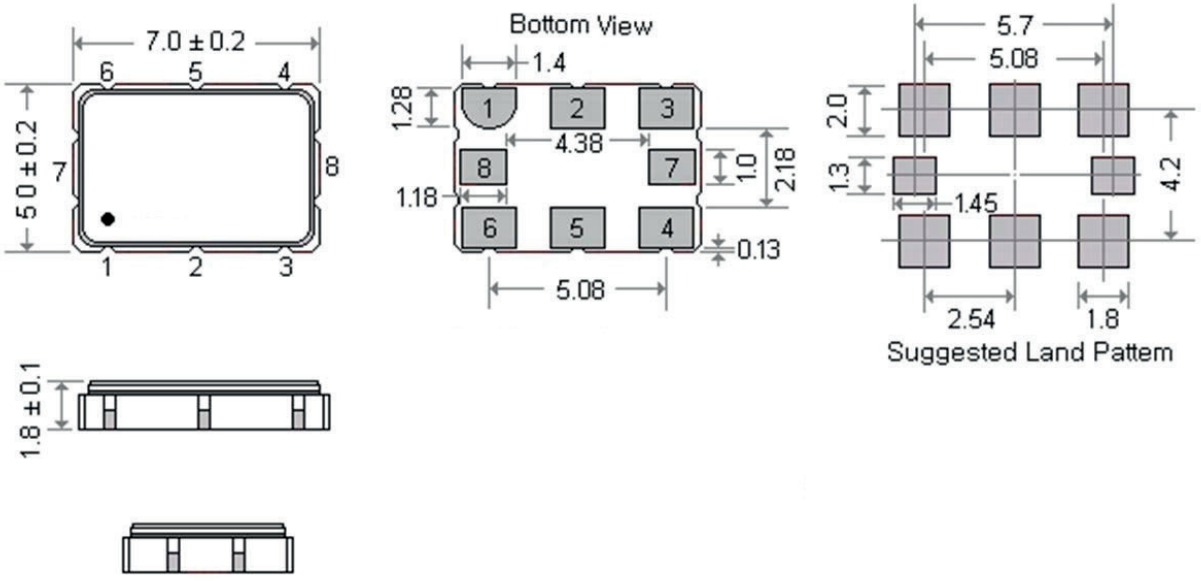
OPTIONS & ORDERING INFORMATION

SX7EU .... MHz

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