

SX3HJK

HCSSL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Femto second integrated phase jitter, 50 fs typical
- Superior phase noise

3.2 x 2.5 x 1.1 mm



Item	Specification
Frequency Range	100 MHz~250 MHz
Output Logic	HCSL
Overall Frequency Stability*	± 25 ppm ~ ± 100 ppm (see options)
Operating Temperature Range	-20 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application (see options)
Supply Voltage Vdd	+1.8V ±5% +2.5V ±5% +3.3V ±5%
Supply Current Idd	30 mA typ.; 40 mA max.
Output Voltage HIGH VOH	660 mV min. ; 740 mV typ. ; 850 mV max.
Output Voltage LOW VOL	-150 mV min. ; 0 mV typ. ; 150 mV max.
Output Load	100 ohm between output and complementary output
Symmetry	45/55%
Rise Time / Fall Time Fr/Ff	0.2 ns typ. ; 0.6 ns max.
Tri-state function	pin #1 = high or open pin #4 - #5 ==> oscillation pin #1 = low pin #4 - #5 ==> disable
Start-up Time	1 ms typ. ; 5 ms max.
Integrated Phase Jitter (12 kHz to 20 MHz band)	50 fs typ. , 300 fs max
Phase Noise (typical)	Offset Frequency 125.000 MHz 100 Hz -114 dBc / Hz 1 kHz -135 dBc / Hz 10 kHz -147 dBc / Hz 100 kHz -156 dBc / Hz 1 MHz -163 dBc / Hz 10 MHz -164 dBc / Hz
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

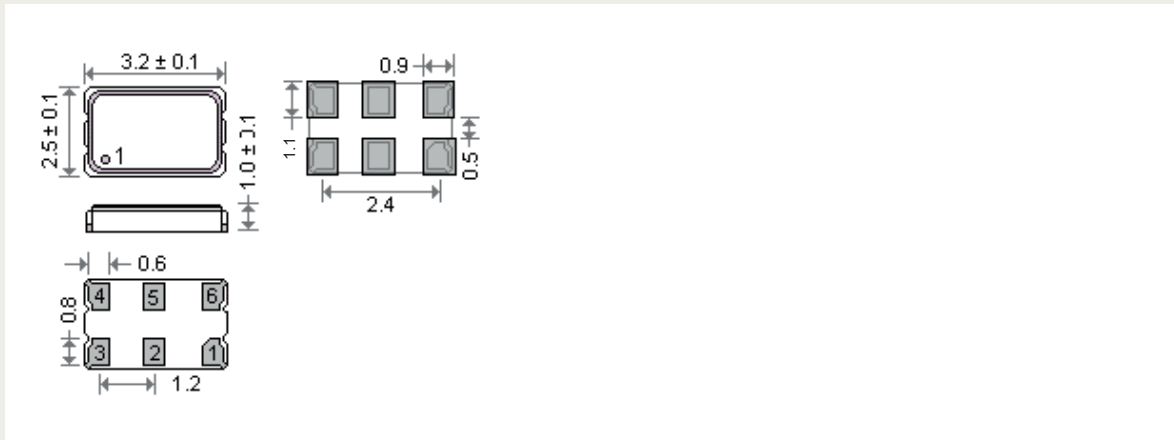
OPTIONS & ORDERING INFORMATION

SX3HJK

..... - MHz
Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
18 = +1.8V	E = 0°/+70°C	25 = ±25 ppm	E = Tri-state	Please specify the frequency in MHz
25 = +2.5V	F = -20°/+70°C	30 = ±30 ppm		
33 = +3.3V	K = -40°/+85°C	50 = ±50 ppm		
		100 = ± 100ppm		

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

OUTLINE DIMENSIONS



Pin Connections

#1 : E/D

#4 : Output

#2 : NC

#5 : Complementary output

#3: GND

#6: Vdd