

SX3HK

HCSSL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Excellent Phase Noise
- Extremely low current consumption
- Applications : SONET, xDSL, SDH, Media box, ...

3.2 x 2.5 x 1.1 mm



Item	Specification
Frequency Range	13.5 MHz~200 MHz
Output Logic	HCSL
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 ±5% +3.3V ±5%
Supply Current Idd	30 mA typ.; 50 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	0.15 ns typ. ; 0.4 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.
Integrated Phase Jitter (12 kHz to 20 MHz band)	0.2 ps typ.
Phase Noise (typical)	Offset Frequency 100.000 MHz 10 Hz -70 dBc / Hz 100 Hz -101 dBc / Hz 1 kHz -126 dBc / Hz 10 kHz -139 dBc / Hz 100 kHz -145 dBc / Hz
Packing Unit	3000pcs / reel
Soldering Condition	260°C , 10 sec x2 max
	Customer specifications on request

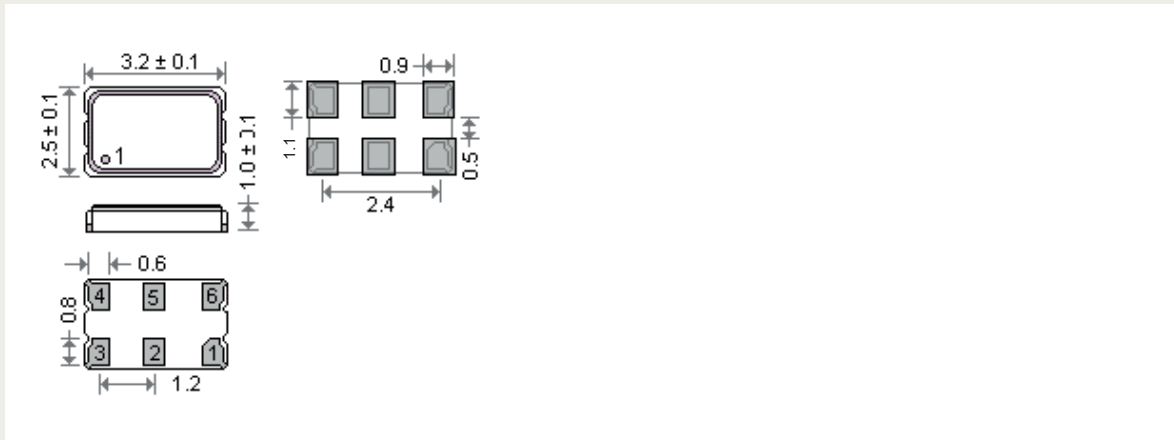
(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

SX3HK - 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 = ± 100ppm		

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

OUTLINE DIMENSIONS



Pin Connections

#1 : E/D	#2 : NC	#3: GND
#4 : Output	#5 : Complementary output	#6: Vdd