

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	HCSSL	
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	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 #1 = low	pin #4 - #5 ==> oscillation 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 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz	Frequency 100.000 MHz -70 dBc / Hz -101 dBc / Hz -126 dBc / Hz -139 dBc / Hz -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

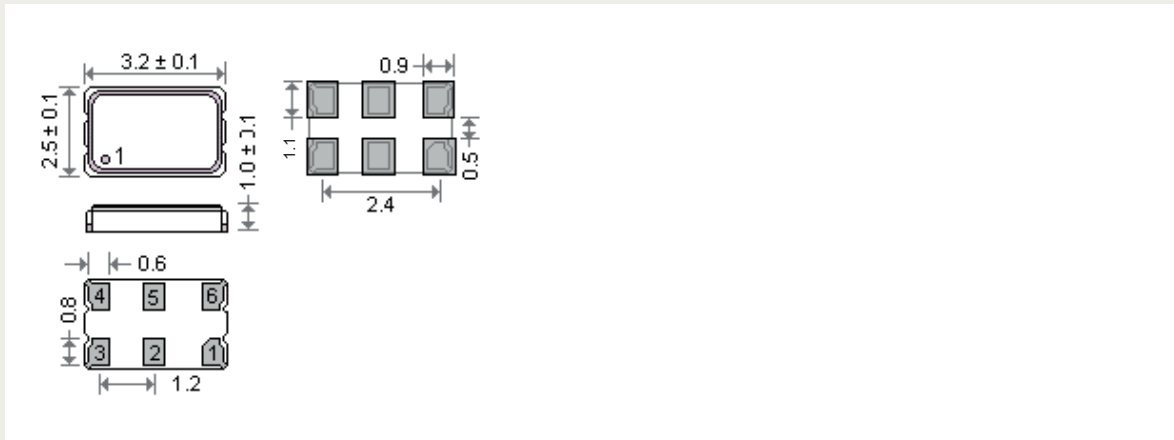
OPTIONS & ORDERING INFORMATION

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

* 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