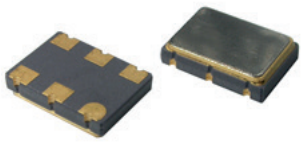
HMI Frequency Technology | ECO European Crystal Organization Frequency Technology | KLOVE Frequency Technology

SX5HK HCSL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

5.0 x 3.2 x 1.3 mm



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

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 #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	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

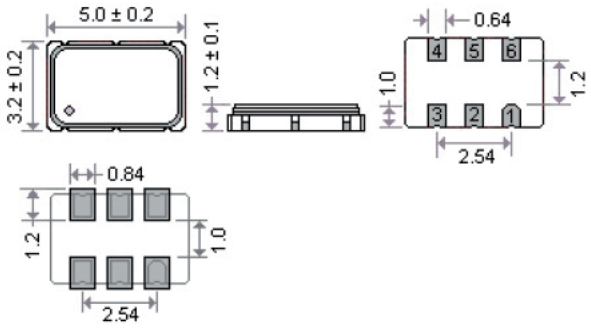
OPTIONS & ORDERING INFORMATION

SX5HK .... - ..... 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