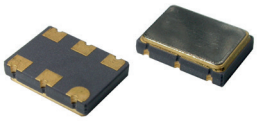
SX5EK

LVPECL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Standard miniature package
- Ultra-low Jitter, 0.2 ps typ.
- Wide Temperature Range
- NO PLL

5.0 x 3.2 x 1.3 mm



Item	Specification	
Frequency Range	13.5 MHz ~ 200 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) -40 ~ +105°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	Vdd -1.03 V min. ; Vdd -0.6 V max	
Output Voltage LOW VOL	Vdd -1.85 V min. ; Vdd -1.6 V max	
Output Load	50 ohm into Vdd-2V	
Symmetry	45/ 55%	
Rise Time/Fall Time Fr/Ff	0.3 ns typ. ; 0.5 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.	
RMS Phase Jitter (12 kHz to 20 MHz)	0.2 ps typ. , 0.5 ps max	
Phase Noise (typical)	**Offset** 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz 1 MHz 10 MHz	**Frequency 100.000 MHz** -70 dBc / Hz -97 dBc / Hz -122 dBc / Hz -138 dBc / Hz -144 dBc / Hz -149 dBc / Hz -154 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

SX5EK .... - ..... MHz

Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
25 = +2.5V	**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		
	L = -40°/+105°C	**50 =** ±50 ppm		
		100 = ±100 ppm		

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

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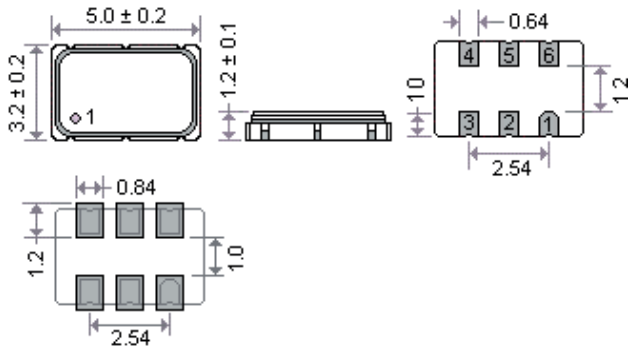
OUTLINE DIMENSIONS (mm)



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

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SYSTEM CERTIFICATION ISO 9001 SGS