

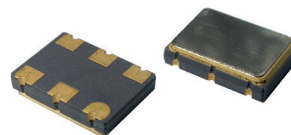
SX7EK

LVPECL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

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

7.0 x 5.0 x 1.8 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 to 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 #4 - #5 ==> oscillation	
	pin #1 = low		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	Frequency:	100.000 MHz	
	10 Hz		-70 dBc / Hz	
	100 Hz		-97 dBc / Hz	
	1 kHz		-122 dBc / Hz	
	10 kHz		-138 dBc / Hz	
	100 kHz		-144 dBc / Hz	
	1 MHz		-149 dBc / Hz	
	10 MHz		-154 dBc / Hz	
Packing Unit	1000pcs / reel			
Soldering Condition	260°C , 10 sec x2 max			
	Customer specifications on request			

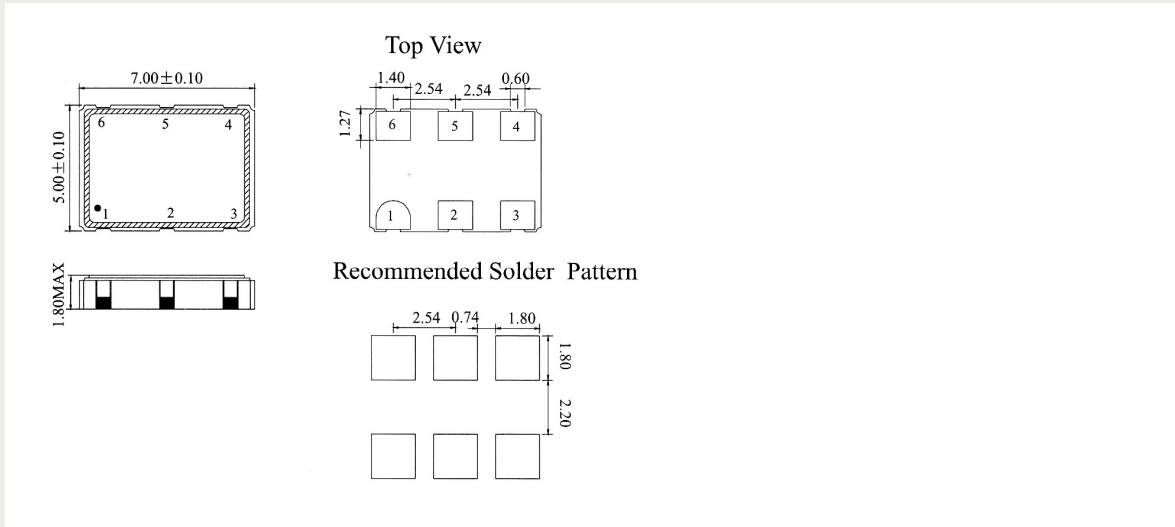
(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

SX7EK - 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.

OUTLINE DIMENSIONS (mm)



Pin Connections

#1 : E/D

#2 : NC

#3: GND

#4 : Output

#5 : Complementary output #6: Vdd