

# SX3K

# 32.768 kHz SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

## FEATURES

- Miniature package
- Low current consumption
- Extend temperature range available
- Applications: Wireless LAN, Bluetooth and mobile communication,...

3.2 x 2.5 x 1.2 mm



Item	Specification
Frequency Range	32.768 kHz
Output Logic	CMOS
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%      +5.0V ±5%
Supply Current Idd	1.0 mA max      1.0 mA max
Output Level	VOH ≥ 0.9 Vdd      VOL ≤ 0.1 Vdd
Output Load	15 pF
Symmetry	45 / 55 %
Rise Time / Fall Time Fr/Ff	6 ns max
Tri-state function	pin #1 = high or open      pin #3 ==> oscillation pin #1 = low      pin #3 ==> high impedance
Start-up Time	10 ms max.
Packing Unit	3000pcs / reel
Soldering Condition	260°C, 10 sec x2 max
<b>Customer specifications on request</b>	

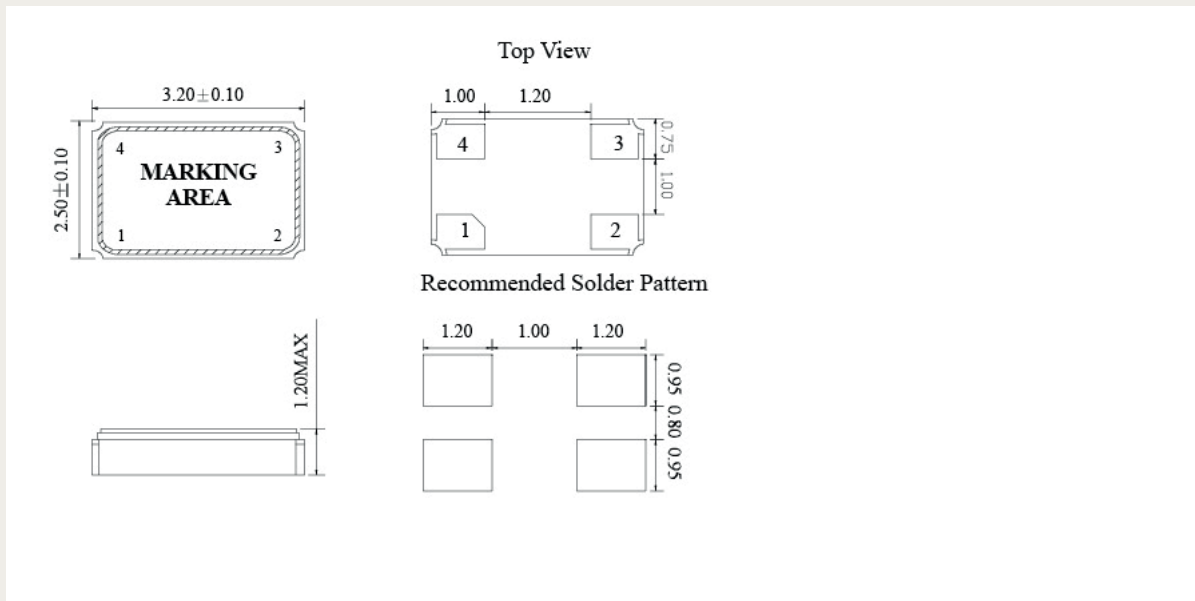
(\* ) Includes initial tolerance @+25°C , stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

## OPTIONS & ORDERING INFORMATION

SX3K	Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	32.768 kHz
	<b>18</b> = +1.8V	<b>D</b> = -10° / +60°C	<b>20</b> = ±20 ppm	<b>E</b> = Tri-state	<b>Blanc</b> = 15 pF	
	<b>25</b> = +2.5V	<b>E</b> = 0° / +70°C	<b>25</b> = ±25 ppm			
	<b>33</b> = +3.3V	<b>F</b> = -20° / +70°C	<b>30</b> = ±30 ppm			
	<b>50</b> = +5.0V	<b>G</b> = -30° / +75°C	<b>50</b> = ±50 ppm			
		<b>H</b> = -30° / +85°C	<b>100</b> = ±100 ppm			
		<b>K</b> = -40° / +85°C				

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

# OUTLINE DIMENSIONS



<b>Pin Connections</b>	#1 : E/D	#2 : GND	#3 : Output	#4 : Vdd
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