

SX5K

32.768 kHz SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Ultra-miniature package
- AT-cut crystal built-in
- Low power consumption of 10 µA max
- Supply voltage as wide as +1.8V to 3.3V
- Applications: Portable electronics,

5.0 x 3.2 x 1.3 mm



Item	Specification
Frequency Range	32.768 kHz
Output Logic	CMOS
Overall Frequency Stability *	± 20 ppm typ. ~ ± 50 ppm (see options)
Operating Temperature Range	-40 ~ +85 °C
Supply Voltage Vdd	+1.8V ±5% +2.5V ±5% +3.0V ±5% +3.3V ±5%
Supply Current Idd	10 µA max.
Output Level	VOH ≥ 0.9 Vdd VOL ≤ 0.1Vdd
Output Load	15 pF
Symmetry	45 / 55 %
Rise Time / Fall Time Fr/Ff	7 ns typ., 20 ns max.
Tri-state function	pin #1 = high or open pin #3 ==> oscillation pin #1 = low pin #3 ==> high impedance
Start-up Time	1 ms typ.
Packing Unit	1000pcs / reel
Soldering Condition	260 °C , 10 sec x2 max

Customer specifications on request

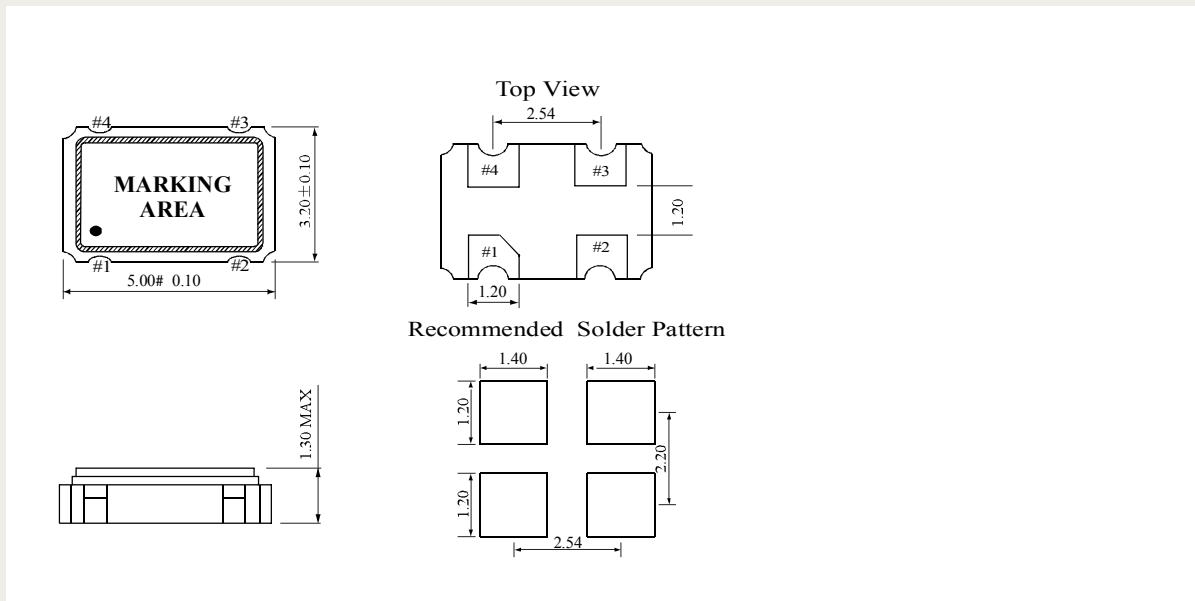
(*) Includes initial tolerance @+25°C , stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

SX5K	32.768 kHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in kHz	
18 = +1.8V	K = -40° / +85°C	20 = ±20 ppm	E = Tri-state		
25 = +2.5V		25 = ±25 ppm			
30 = +3.0V		30 = ±30 ppm			
33 = +3.3V		50 = ±50 ppm			

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

OUTLINE DIMENSIONS



Pin Connections

#1 : E/D

#2 : GND

#3 : Output

#4 : Vdd