

SX3K

32.768 kHz SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

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

3.2 x 2.5 x 1.2 mm



Item	Specification
Frequency Range	32.768 kHz
Output Logic	CMOS
Frequency stability	± 20 ppm typ. $\sim \pm 50$ ppm (see options)
Operating Temperature Range	-40 ~ +85°C
Supply Voltage Vdd	+1.8V $\pm 5\%$ +2.5V $\pm 5\%$ +3.0V $\pm 5\%$ +3.3V $\pm 5\%$
Supply Current Idd	10 μ A max.
Output Level	VOH ≥ 0.9 Vdd VOL ≤ 0.1 Vdd
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

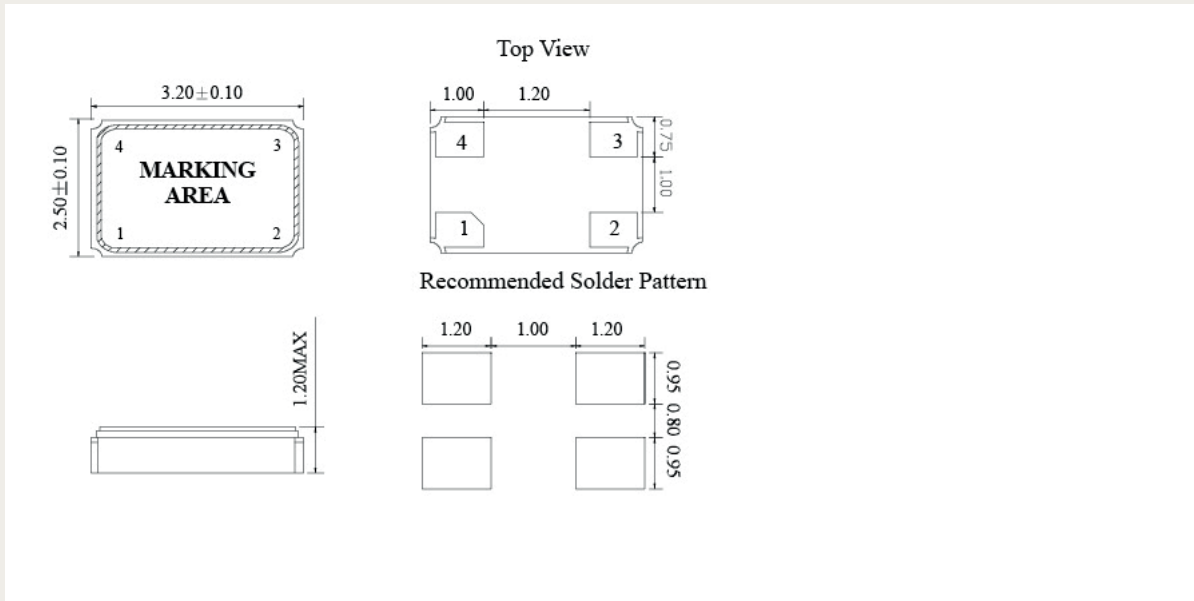
(*) Includes initial tolerance @+25°C , stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

SX3K	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