SX2K 32.768 kHz SURFACE MOUNT 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 , ….

2.5 x 2.0 x 0.9 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°C to +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 ≤ 0.1 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

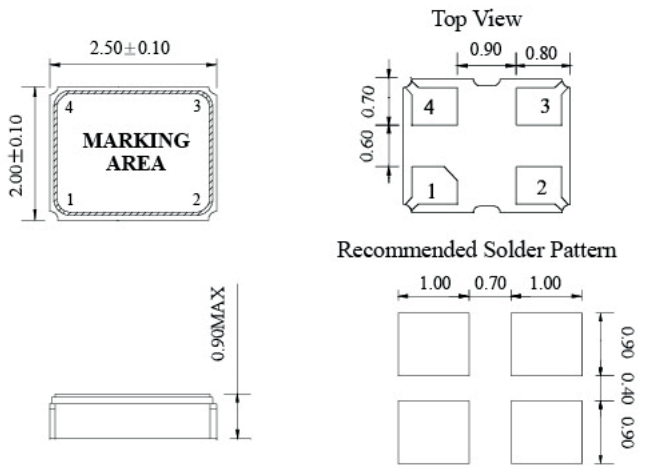
(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

SX2K .... 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 = +2.50V		**25 =** ±25 ppm		
30 = +3.0V		**30 =** ±30 ppm		
33 = +3.3V		**50 =** ±50 ppm		

OUTLINE DIMENSIONS



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