

SX2K

32.768 kHz SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

2.5 x 2.0 x 0.9 mm



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

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	35 ms max.
Packing Unit	3000pcs / reel
Soldering Condition	260 °C , 10 sec x2 max
	Customer specifications on request

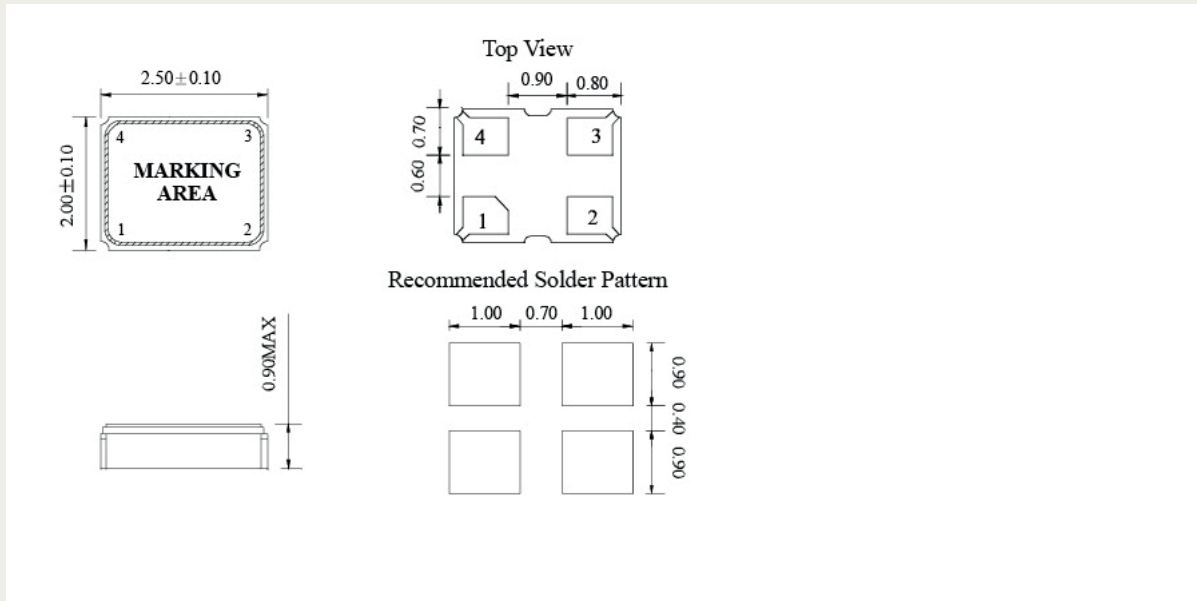
(*) Includes initial tolerance @+25°C , stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

SX2K					32.768 kHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in kHz
18 = +1.8V	D = -10° / +60°C	20 = ±20 ppm	E = Tri-state	Blanc = 15 pF	
25 = +2.5V	E = 0° / +70°C	25 = ±25 ppm			
33 = +3.3V	F = -20° / +70°C	30 = ±30 ppm			
50 = +5.0V	G = -30° / +75°C	50 = ±50 ppm			
	H = -30° / +85°C	100 = ±100 ppm			
	K = -40° / +85°C				

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

OUTLINE DIMENSIONS



Pin Connections

#1 : E/D

#2 : GND

#3: Output

#4 : Vdd