

## Datasheet

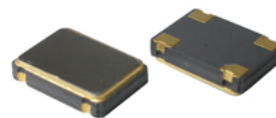
### SX3KL

### 32.768 kHz SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

## FEATURES

- Ultra miniature package
- Featured by tuning fork crystal
- Ultra low  $\mu\text{A}$  current consumption
- Applications: Portable field communication, Electricity-gas-water metering

3.2 x 2.5 x 1.1 mm



Item	Specification	
Frequency Range	32.768 kHz	
Output Logic	CMOS	
Frequency tolerance	+30 ppm to -10 ppm	
Frequency stability	+30 ppm to -90 ppm (-20°C to +70°C) +30 ppm to -130 ppm (-40°C to +85°C)	
Operating Temperature Range	-40 ~ +85°C industrial application	
Supply Voltage Vdd	+1.8V $\pm$ 1.0V	
Supply Current Idd	1.5 $\mu\text{A}$ max	
Output Level	VOH $\geq$ Vdd-0.4V	VOL $\leq$ 0.4V
Output Load	15 pF	
Symmetry	45/55	
Rise Time / Fall Time Fr/Ff	100 ns max.	
Tri-state function	pin #1 = high or open pin #1 = low	pin #3 ==> oscillation pin #3 ==> high impedance
Start-up Time	1 ms max.	
Aging	$\pm$ 5ppm max for first year	
Packing Unit	3000pcs / reel	
Soldering Condition	260°C , 10 sec x2 max Customer specifications on request	

## OPTIONS & ORDERING INFORMATION

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Supply Voltage	Operating Temp.	Overall Stability	Tri-state Function	Output Load	Frequency in kHz
18 = +1.8V	F = -20° / +70°C K = -40° / +85°C	30 = see specsheet	E = Tri-state	Blanc = 15 pF	32.768 kHz

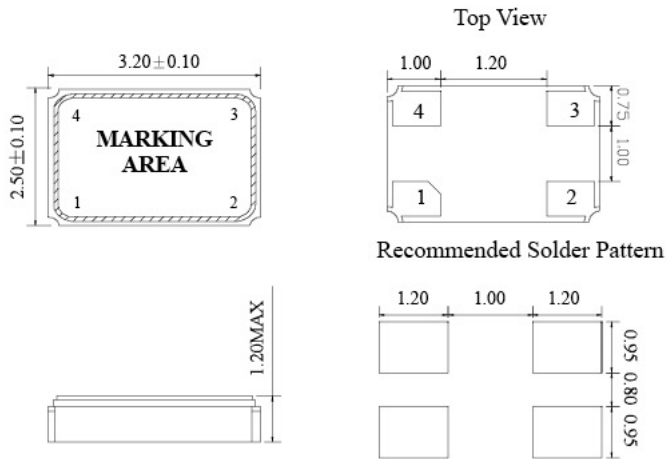
Rev. 09-2012

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**OUTLINE DIMENSIONS**



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