

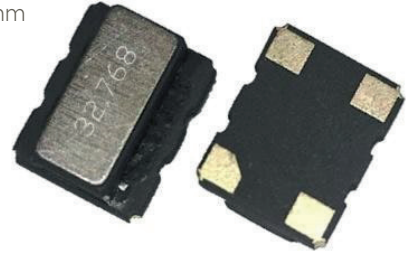
## SX3KTF

## 32.768 KHZ SURFACE MOUNT TCXO

### FEATURES

- Miniature package
- Ultra Low nA Current
- Tuning Fork design
- Workable Vdd range 1.7V to 5.5V
- Applications : Real time clocks, portable instruments, smart metering ...

3.2 x 2.5 x 1.3 mm



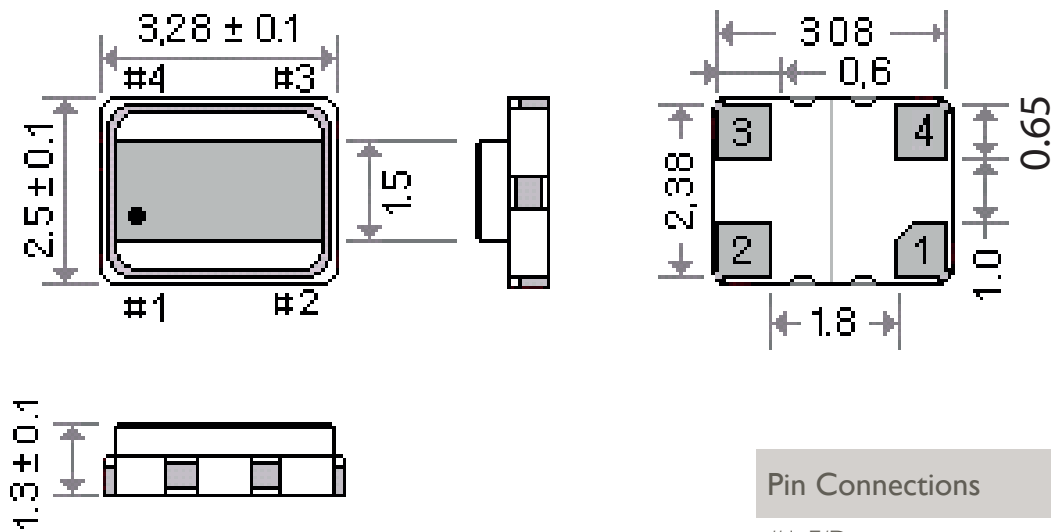
Item	Specification
Frequency Range	32.768 kHz
Output Signal	CMOS
Supply Voltage Vdd	+1.8V ±5%    +2.5V ±5%    +3.0V ±5%    +3.3V ±5%    +5.0V ±5%
Supply Current Idd	0.80 µA typ.    1.05 µA typ.    1.25 µA typ.    1.35 µA typ.    2.05 µA typ.
Frequency Tolerance	±1.5 ppm at 25°C ±2°C ( one hour after reflow )
Frequency Stability vs Temperature	-40° to +85°C <b>±5.0 ppm</b>
Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C
Frequency Stability vs Voltage Change	±0.2 ppm max. , for a ±5% input voltage change
Frequency Stability vs Load Change	±0.2ppm max. , for a ±10% load condition change
Frequency Stability vs all range of Vdd	±1.0 ppm / volt max. - ±0.5 ppm / volt typ. : Vdd = 1.7V to 5.5V
Output Level	VOH ≥ 0.9Vdd    VOL ≤ 0.1 Vdd
Output Load	15 pF
Symmetry	40 / 60 %
Rise / Fall time Fr/Ff	100 ns max.
Tri-state function	pin #1 = high or open    pin #3 ==> oscillation pin#1 = low    pin #3 ==> high impedance
Start-up Time	1 sec. max.
Integrated Phase Jitter ( 12 kHz to 20 MHz band )	1.5 ps typical
Packing Unit	1000pcs / reel
Soldering Condition	260°C , 10 sec x2 max

## OPTIONS & ORDERING INFORMATION

<b>SX3KTF</b>				32.768 kHz
Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Frequency in kHz
18 = +1.8V 25 = +2.5V 30 = +3.0V 33 = +3.3V 50 = +5.0V	K = -40° / +85°C	5.0 = ±5.0 ppm	E = Tri-state	

\* Note : Not all combinations are possible , please check data sheet.

## OUTLINE DIMENSIONS (MM)



### Pin Connections

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