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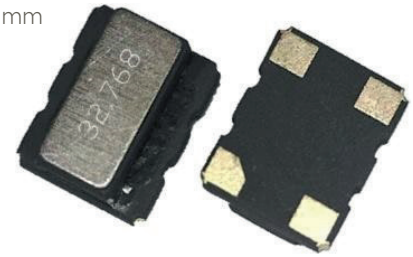
SX3KTF 32.768 KHZ SURFACE MOUNT TCXO

FEATURES

- Miniature package
- Ultra Low µA Current
- Tuning Fork design
- Workable Vdd range 2.35V to 5.5V
- Applications: battery-operated devices, smart metering,...

3.28 x 2.5 x 1.4 mm



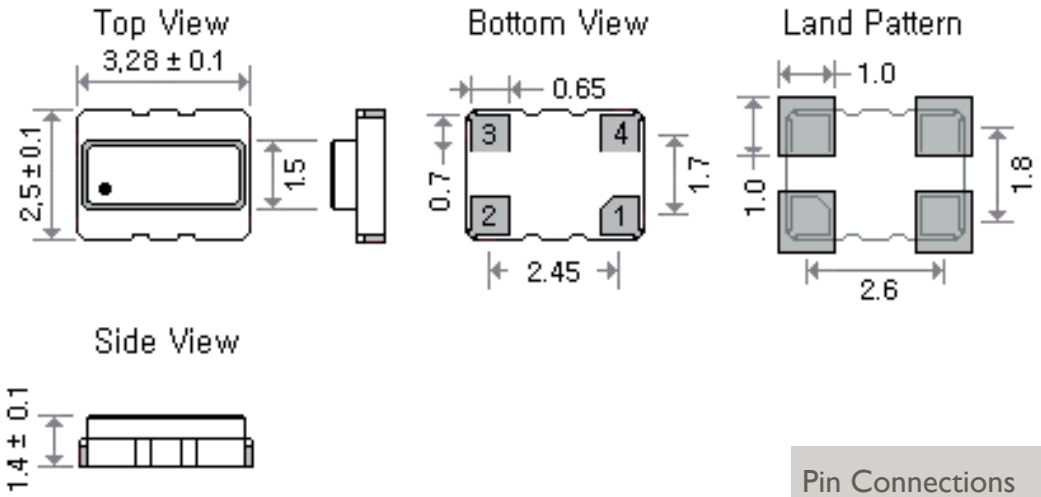
Item	Specification
Frequency Range	32.768 kHz
Output Signal	CMOS
Supply Voltage Vdd	+2.5V ±5% +3.0V ±5% +3.3V ±5% +5.0V ±5%
Supply Current Idd	1.0 µA typ., 2.0 µA max
Frequency Tolerance	±2.5 ppm at 25°C ±2°C (one hour after reflow)
Frequency Stability vs Temperature (see options)	-10° to +60°C **±3.8 ppm** -40° to +85°C **±5.0 ppm** -40° to +105°C **±8.0 ppm**
Time Error over time (±5ppm -40°to +85°C)	±0.432 sec/day ; ±12.96 sec/month ; ±2.628 minutes /year
Frequency Stability vs Aging	±3.0 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.
Output Level	VOH ≥ 0.9 Vdd 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
Packing Unit	1000pcs / reel
Soldering Condition	260°C , 10 sec x2 max

OPTIONS & ORDERING INFORMATION

SX3KTF					32.768 kHz
	Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Frequency in kHz
	25 = +2.5V	D = -10° / +60°C	3.8 = ±3.8 ppm	E = Tri-state	
	30 = +3.0V	K =-40° / +85°C	5.0 = ±5.0 ppm		
	33 = +3.3V	L = -40° / +105°C	8.0 = ±8.0 ppm		
	50 = +5.0V				

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

OUTLINE DIMENSIONS (MM)



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