

SX7KVTM

32.768 KHZ SURFACE MOUNT VCTCXO

FEATURES

- Miniature package
- 32.768 kHz VCTCXO
- Low cost
- Applications: Real time clocks,...

7.0 x 5.0 x 2.3 mm



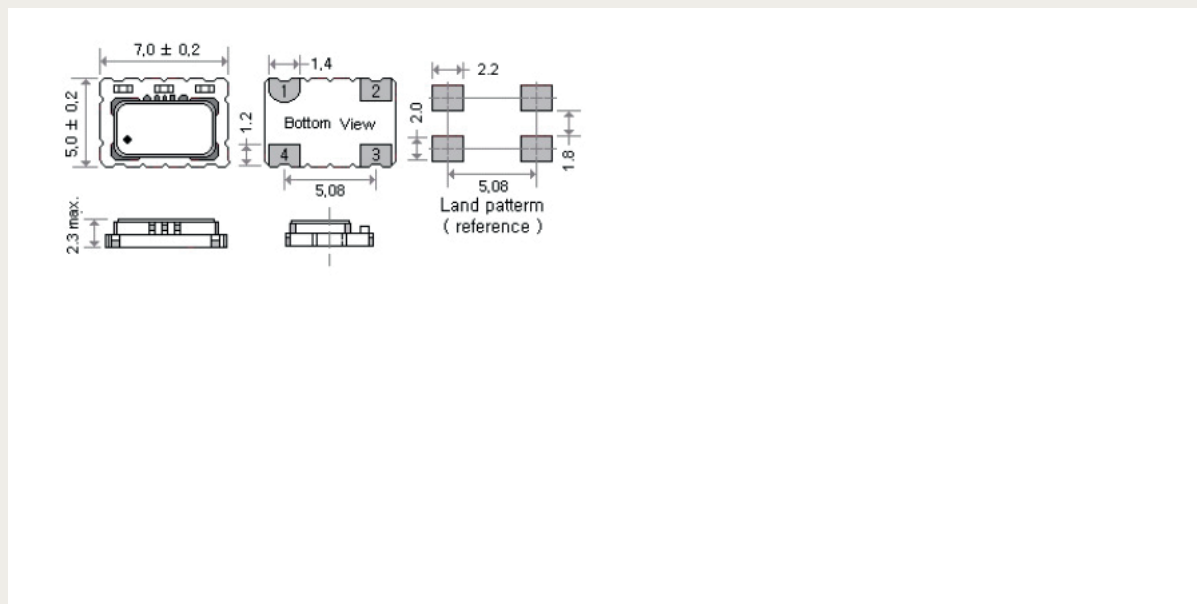
| Item | Specification | | | | | | |
|--|---|---------------|------------------------------------|---------------|-------------------|----------|----------|
| Frequency Range | 32.768 kHz | | | | | | |
| Output Logic | CMOS | | | | | | |
| Supply Voltage Vdd (see options) | +3.3V ±5% | | +5.0V ±5% | | | | |
| Supply Current Idd | 8.0 mA max. | | | 10.0 mA max. | | | |
| Frequency Tolerance | ±2.0 ppm at 25°C ±2°C (one hour after reflow) | | | | | | |
| Frequency Stability vs Temperature (see options) | | ±0.5 ppm | ±1.0 ppm | ±1.5 ppm | ±2.0 ppm | ±2.5 ppm | ±3.0 ppm |
| | -10° to +60°C | ◇ | o | o | o | o | o |
| | -20° to +70°C | x | o | o | o | o | o |
| | -30° to +85°C | x | o | o | o | o | o |
| | -40° to +85°C | x | o | o | o | o | o |
| | | o = available | ◇ = please contact us | | x = not available | | |
| Frequency Stability vs Aging | ±1.0 ppm max. per year at 25°C | | | | | | |
| Frequency Stability vs Voltage Change | ±0.3 ppm max., for a ±5% input voltage change | | | | | | |
| Frequency Stability vs Load Change | ±0.3 ppm max., for a ±10% load condition change | | | | | | |
| Output Level | VOH ≥ 0.9 Vdd | | | VOL ≤ 0.1 Vdd | | | |
| Output Load | 15 pF | | | | | | |
| Symmetry | 45 / 55 % | | | | | | |
| Rise Time / Fall Time Fr/Ff | 3 ns typ. | | | | | | |
| Start-up Time | 5 ms typ., 10 ms max. | | | | | | |
| Voltage Control Function | Control Voltage Range | | Center voltage +1.5 V, range ±1.0V | | | | |
| | Frequency Pulling Range | | ±5 ppm min. | | | | |
| | Linearity | | 10 % max. | | | | |
| | Slope Polarity | | Positive | | | | |
| | Input Impedance | | 10 kΩ min. | | | | |
| | Modulation Bandwidth | | 3 kHz min. (at -3 dB) | | | | |
| Packing Unit | 1000pcs / reel | | | | | | |
| Soldering Condition | 260°C, 10 sec x2 max | | | | | | |
| | Customer specifications on request | | | | | | |

OPTIONS & ORDERING INFORMATION

| SX7KVTM | | | | | | 32.768 kHz |
|--------------------------|--|--|--------------------|--------------------|-------------|------------|
| Supply Voltage | Operating Temp. * | Temperature Stability * | Tri-state Function | Package type | Pulling * | |
| 33 = +3.3V 50 = +5.0V | D = -10° / +60°C F = -20° / +70°C H = -30° / +85°C K = -40° / +85°C | 0.5 = ±0.5 ppm 1.0 = ±1.0 ppm 1.5 = ±1.5 ppm 2.0 = ±2.0 ppm 2.5 = ±2.5 ppm 3.0 = ±3.0 ppm | F = No Tri-state | 4P = 4-pad version | 05 = ±5 ppm | |

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

OUTLINE DIMENSIONS



| | | | | |
|-----------------|----------------------|----------|------------|----------|
| Pin Connections | #1 : Control voltage | #2 : GND | #3: Output | #4 : Vdd |
|-----------------|----------------------|----------|------------|----------|