

# 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



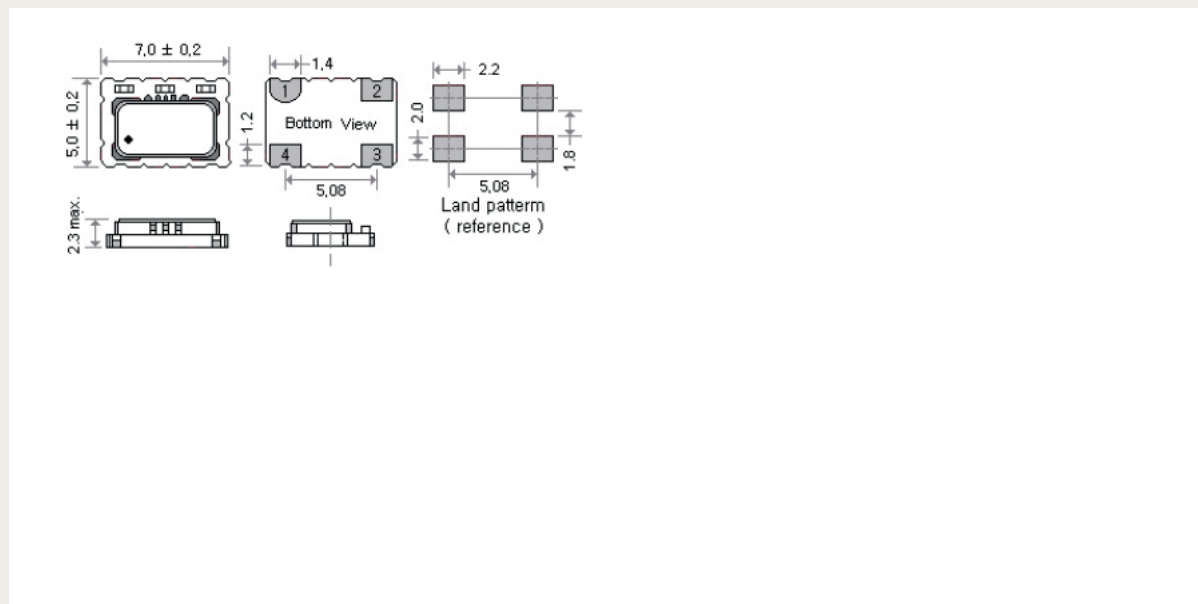
Item	Specification							
Frequency Range	32.768 kHz							
Output Logic	CMOS							
Supply Voltage V <sub>dd</sub> (see options)	+3.3V ±5%		+5.0V ±5%					
Supply Current I <sub>dd</sub>	8.0 mA max.			10.0 mA max.				
Frequency Tolerance	±2.0 ppm at 25°C ±2°C (one hour after reflow)							
Frequency 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 V <sub>dd</sub>			VOL ≤ 0.1 V <sub>dd</sub>				
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	<b>Control Voltage Range</b>	Center voltage +1.5 V, range ±1.0V						
	<b>Frequency Pulling Range</b>	±5 ppm min.						
	<b>Linearity</b>	10 % max.						
	<b>Slope Polarity</b>	Positive						
	<b>Input Impedance</b>	10 kΩ min.						
	<b>Modulation Bandwidth</b>	3 kHz min. (at -3 dB)						
Packing Unit	1000pcs / reel							
Soldering Condition	260°C, 10 sec x2 max							
	<b>Customer specifications on request</b>							

## 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
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