

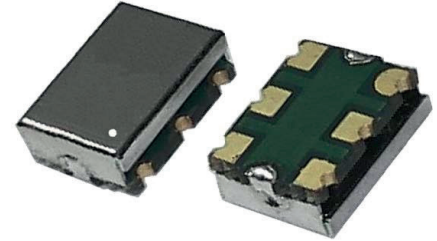
SX7CVTQ

HCMOS SURFACE MOUNT VCTCXO

FEATURES

- FR4 based package
- Low jitter
- Low current consumption

7.0 x 5.0 x 2.5 mm



Item	Specification					
Frequency Range	10 MHz ~ 245.0 MHz					
Output Signal	CMOS					
Supply Voltage Vdd (see options)	+2.5V ±5%		+3.3V ±5%			
Supply Current Idd	30.0 mA max , Frequency dependent					
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
	-20° to +70°C	○	○	○	○	○
	-30° to +75°C	○	○	○	○	○
	-30° to +85°C	○	○	○	○	○
	-40° to +85°C	◇	○	○	○	○
		○ = 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	±0.2 ppm max. , for a ±5% input voltage change					
Frequency Stability vs Load Change	±0.2 ppm max. , for a ±10% load condition change					
Output Level	VOH ≥ 0.9Vdd		VOL ≤ 0.1 Vdd			
Output Load	15 pF					
Symmetry	45 / 55 %					
Rise / Fall time Fr/Ff	3.0 ns max.					
Tri-state function (only available for 6-pad)	pin #2 = high or open		pin #4 ==> oscillation			
	pin#2 = low		pin #4 ==> high impedance			
Start-up Time	5 ms max.					
Integrated Phase Jitter (12 kHz to 20 MHz band)	0.8 ps typical					
Voltage Control Function	Supply Voltage (Vdd)	Vdd +2.5V ,Vcon Center = +1.5V		Vdd +3.3V ,Vcon Center = +1.5V		
	Control voltage range	+1.5V ±1.0V		+1.5V ±1.0V		
	Frequency pulling range	±8 ppm min.				
	Linearity	10 % max				
	Slope polarity	Positive				
	Input impedance	770 kΩ typ.				
Modulation bandwidth	10 kHz min. (at -3 dB)					
Packing Unit	1000pcs / reel					
Soldering Condition	260°C , 10 sec x2 max					

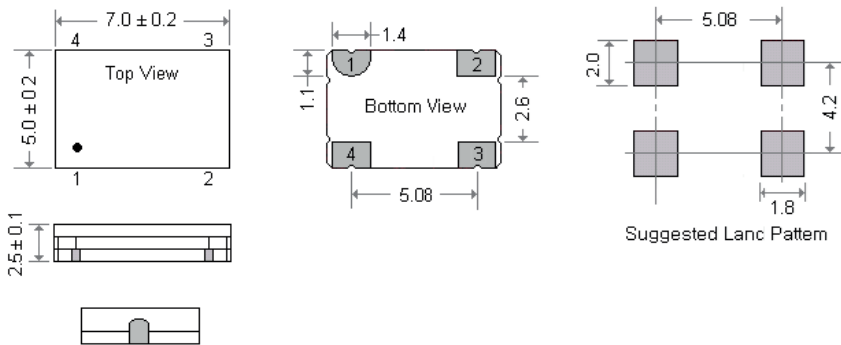
OPTIONS & ORDERING INFORMATION

SX7CVTQ							MHz
	Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling **	Frequency in MHz
	25 = +2.5V 33 = +3.3V	F = -20° / +70°C G = -30° / +75°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	F = No Tri-state (4-pad) E2 = Tri-state, pin 2	4P = 4-pad version 6P = 6-pad version	08 = ±8 ppm min.	Please specify the frequency in MHz

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

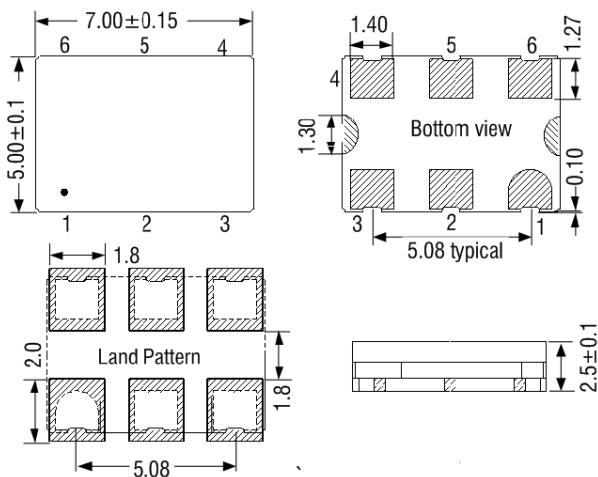
** Other pulling range is available on customer specification

OUTLINE DIMENSIONS (MM)



Pin Connections

- #1 : NC
- #2 : GND
- #3: Output
- #4 :Vdd



Pin Connections

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