

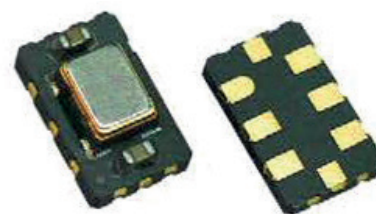
## SX5CTVJ

## HCMOS SURFACE MOUNT TCVCXO

### FEATURES

- ▶ TCXO with wide pulling range
- ▶ Ultra Low Jitter , 300 fsec typ.
- ▶ Fast delivery

5.0 x 3.2 x 1.5 mm



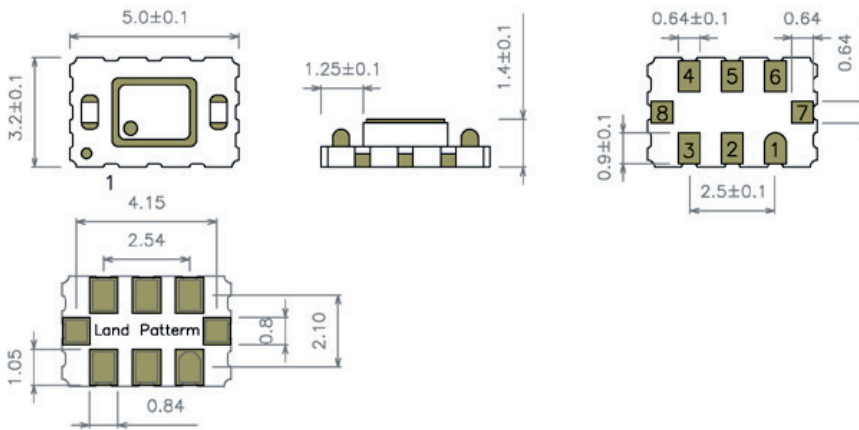
Item	Specification
Frequency Range	15 MHz ~ 250.0 MHz
Output Signal	HCMOS
Supply Voltage Vdd	+1.8V ±5%    +2.5V ±10%    +3.3V ±10%
Supply Current Idd	90.0 mA max
Frequency Tolerance	±1.0 ppm at 25°C ±2°C
Frequency Stability	vs Temperature    ±2.5 ppm over -40° to +85°C vs Aging            ±1.0 ppm max. per year at 25°C vs Voltage Change   ±0.2 ppm max. , for a ±5% input voltage change vs Load Change    ±0.2 ppm max. , for a ±10% load condition change vs Reflow            ±1.0 ppm max. , 1 reflow and measured 24 hours afterwards
Output Voltage HIGH VOH	> 0.9 Vdd
Output Voltage LOW VOL	< 0.1 Vdd
Output Load	15 pF
Symmetry	45 / 55 %
Rise / Fall time Fr/Ff	5.0 ns max.
Tri-state function	pin #2 : high or open                          pin #4 : oscillation pin #2 : low    pin #4 : high impedance
Current with Output Disable	60 mA typ.
Start-up Time	5 ms typ.
Integrated Phase Jitter (12 kHz to 20 MHz )	15 MHz - 50 MHz                          500 fsec typ. 51 MHz - 250 MHz                         300 fsec typ.
Control Voltage Function	Supply Voltage Vdd                      +1.8V    +2.5V    +3.3V Control voltage range                    +0.9V ±0.9V                                       +1.25V ±1.0V                                       +1.65V ±1.35V Frequency pulling range*                ± 40 ppm min. to +300 ppm, depends on Frequency and Supply Voltage. (please consult factory) Linearity                                        ±1.0 % typical , ±10 % max Slope polarity                                 Positive Input impedance                             5 MΩ typ. Modulation bandwidth                    10 kHz typ. ( at -3 dB )
Packing Unit	1000pcs / reel
Soldering Condition	260°C , 10 sec x2 max

## OPTIONS & ORDERING INFORMATION

SX5CTVJ					MHz
	Supply voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Pulling *
	18 = +1.8V 25 = +2.5V 33 = +3.3V	K = 40° / +85°C	2.5 = ±2.5 ppm	E2 = Tri-state , pin 2	xxx = ± xxx ppm min.
					Please specify the frequency in MHz

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

## OUTLINE DIMENSIONS (MM)



### Pin Connections

- #1 : GND
- #2 : E/D
- #3: GND
- #4 : Output
- #5 : Complementary Output
- #6 :Vdd
- #7 : Do Not Connect
- #8 : Do Not Connect