

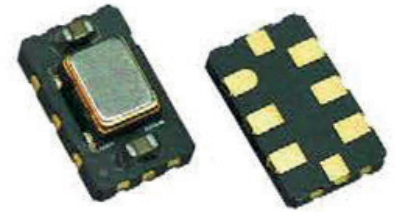
## SX5MTVJ

## CML SURFACE MOUNT TCVCXO

### FEATURES

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

5.0 × 3.2 × 1.5 mm



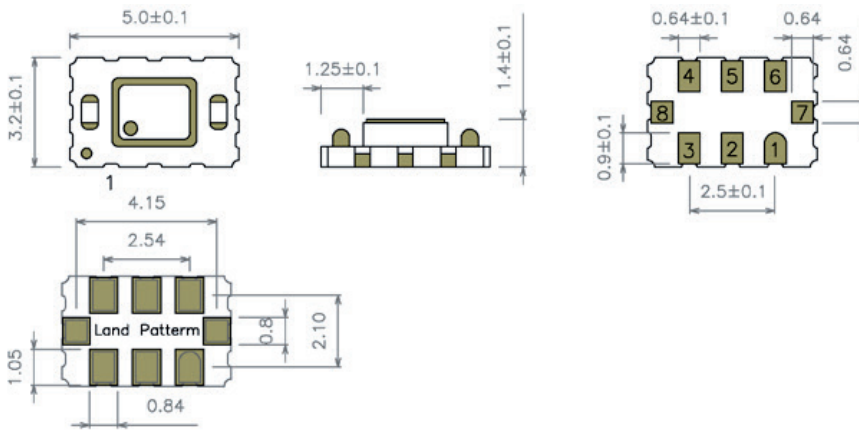
Item	Specification
Frequency Range	15 MHz ~ 1300.0 MHz
Output Signal	CML
Supply Voltage Vdd	+1.8V ±5%    +2.5V ±10%    +3.3V ±10%
Supply Current Idd	85.0 mA max
Frequency Tolerance	±1.0 ppm at 25°C ±2°C
Frequency Stability	vs Temperature ±2.5 ppm over -40° to +85°C vs Aging ±1.0 ppm max. per year at 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	Vdd -0.085V min. , Vdd = max.
Output Voltage LOW VOL	Vdd -0.6V min. , Vdd - 0.32V max.
Output Load	50 Ohm to Vdd
Symmetry	45 / 55 %
Rise / Fall time Fr/Ff	0.40 ns max.
Tri-state function	pin #2 : high or open                      pin #4 : oscillation pin #2 : low                                  pin #4 : high impedance
Current with Output Disable	67 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. 251 MHz - 700 MHz                  250 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

SX5MTVJ					MHz	
	Supply voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Pulling *	Frequency in MHz
	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 : Control Voltage
- #2 : E/D
- #3 : GND
- #4 : Output
- #5 : Complementary Output
- #6 : Vdd
- #7 : Do Not Connect
- #8 : Do Not Connect