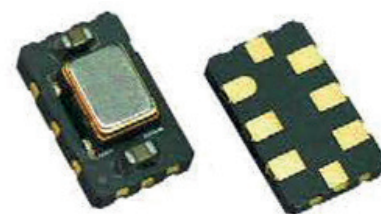


# SX5MTVJ

# CML SURFACE MOUNT TCVCXO

5.0 x 3.2 x 1.5 mm



## FEATURES

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

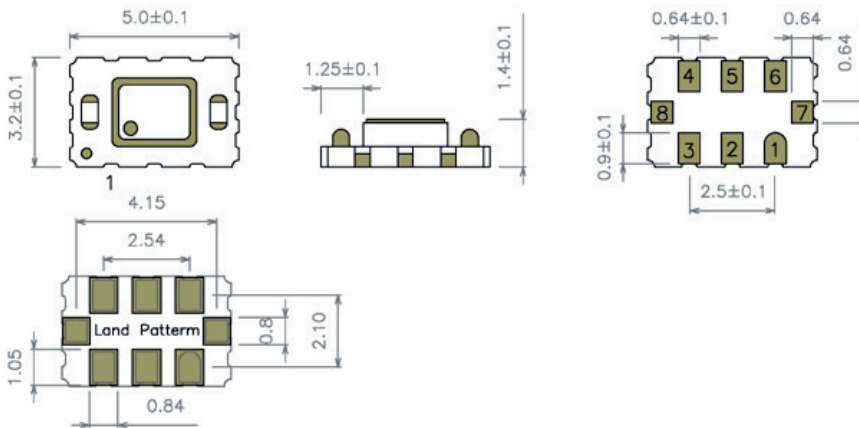
Item	Specification			
Frequency Range	15 MHz ~ 1300.0 MHz			
Output Signal	CML			
Supply Voltage Vdd	+1.8V ±5%	+2.5V ±10%	+3.3V ±10%	
Supply Current Idd	85.0 mA max			
Frequency Tolerance	±1.0 ppm at 25°C ±2°C			
Frequency Stability	vs Temperature	±2.5 ppm over -40° to +85°C		
	vs Aging	±1.0 ppm max. 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 #2 : low	pin #4 : oscillation 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