HMI Frequency Technology | ECO Frequency Technology | KLOVE Frequency Technology

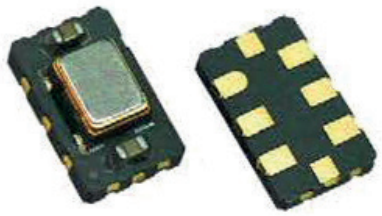
SX5CTVJ

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



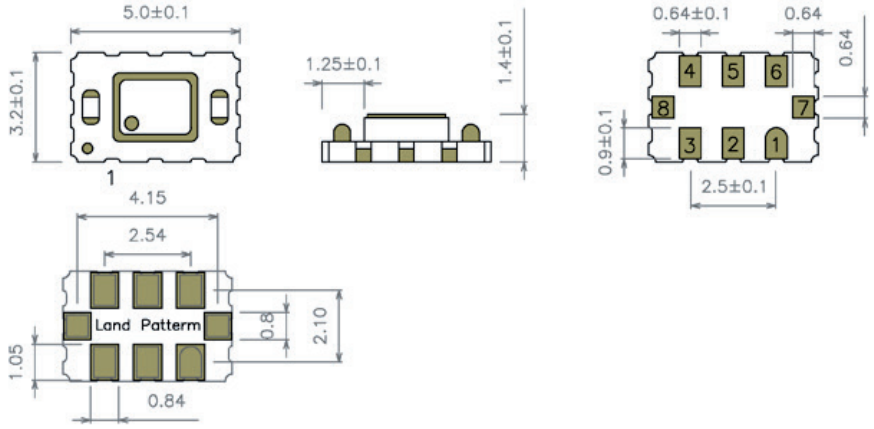
Item		Specification
Frequency Range		15 MHz ~ 250.0 MHz
Output Signal		HCMOS
Supply Voltage Vdd		+1.8V ±5% +2.5V ±10% +3.3V ±10%
Supply Current Idd		90.0 mA max
Frequency Tolerance		±1.0 ppm at 25°C ±2°C
Frequency Stability	vs Temperature	±2.5 ppm over -40° to +85°C
	vs Aging	±1.0 ppm max. per year at 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 *	Frequency in MHz
	18 = +1.8 V 25 = +2.5 V 33 = +3.3 V	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