HMI Frequency Technology | ECO Frequency Technology | KLOVE Frequency Technology

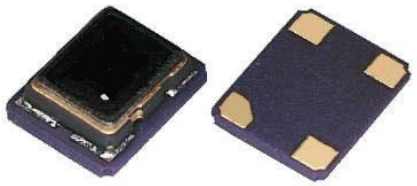
SX3CTE

HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Tristate function

3.2 x 2.5 x 1.2 mm



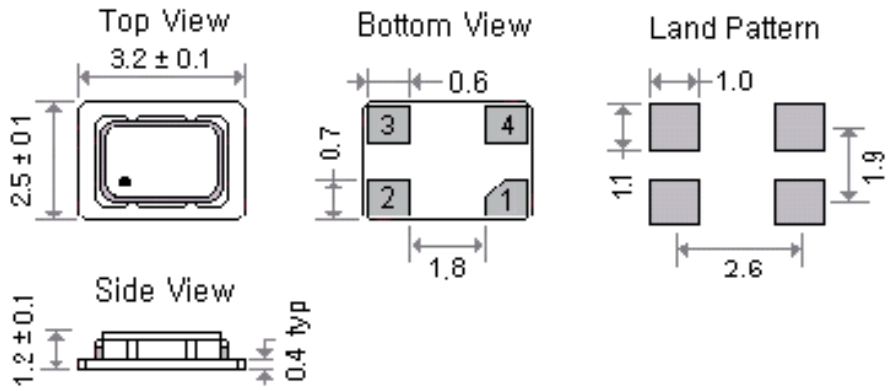
Item	Specification
Frequency Range	9.5 MHz ~ 60.0 MHz
Output Signal	CMOS
Supply Voltage Vdd	+1.8V ±5% +2.5V ±5% +3.3V ±5%
Supply Current Idd	8.0 mA max
Frequency Tolerance	±2.0 ppm at 25°C ±2°C (one hour after reflow)
Frequency Stability vs Temperature (see options)	±2.5 ppm / ±5.0 ppm / ±10.0 ppm -40° to +85°C: O / O / O -40° to +105°C: ◊ / ◊ / O O : availabe ◊ : please contact us
Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C
Frequency Stability vs Voltage Change	±0.3 ppm max. , for a ±5% input voltage change
Frequency Stability vs Load Change	±0.3 ppm max. , for a ±10% load condition change
Output Level	VOH ≥ 0.9 Vdd VOL ≤ 0.1 Vdd
Output Load	15 pF
Symmetry	45 / 55 %
Rise / Fall time Fr/Ff	10.0 ns max.
Tri-state function (don't use in OPEN condition)	pin #1 = high ==> pin #3 ==> oscillation pin#1 = low ==> pin #3 ==> disable
Phase noise	Offset / dBc / Hz: 10 Hz / 100 Hz / 1 kHz / 10 kHz / 100 kHz 50 MHz as example: -85 dBc /Hz / -110 dBc /Hz / -133 dBc /Hz / -149 dBc /Hz / -154 dBc /Hz
Integrated Phase Jitter (12 kHz to 20 MHz band)	0.3 ps typical, 1.0 ps max.
Start-up Time	5 ms max.
Packing Unit	1000pcs / reel
Soldering Condition	260°C , 10 sec x2 max

OPTIONS & ORDERING INFORMATION

SX3CTE					Mhz
	Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Frequency in MHz
	18 = +1.8V	K =-40° / +85°C	2.5 = ±2.5 ppm	E = Tri-state	Please specify the frequency in MHz
	25 = +2.5 V	L = -40° / +105°C	5.0 = ±5.0 ppm		
	33 = +3.3V		10.0 = ±10 ppm		

* Note : Not all combinations are possible , please check data sheet.

OUTLINE DIMENSIONS (MM)



Pin Connections
#1: E/D
#2: GND
#3: Output
#4:Vdd