

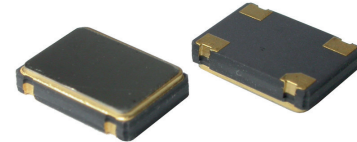
SX2CTE

HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Tristate function

2.5 x 2.0 x 0.8 mm



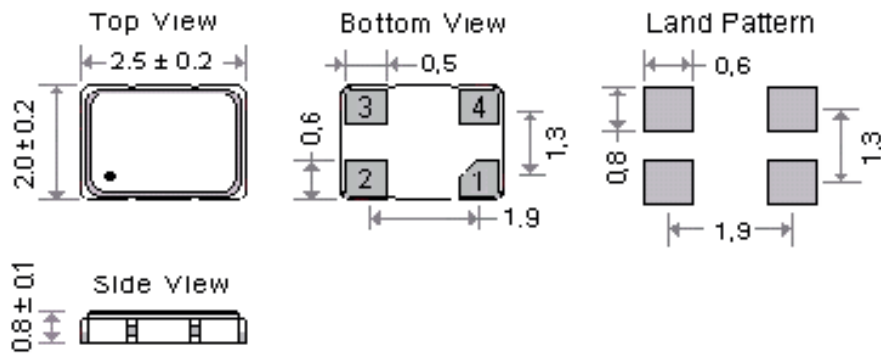
Item	Specification					
Frequency Range	9.5 MHz ~ 60.0 MHz					
Output Signal	CMOS					
Supply Voltage Vdd	+1.8V ±5%	+2.5V ±5%	+3.3V ±5%			
Supply Current Idd	8.0 mA max					
Frequency Tolerance	±2.0 ppm at 25°C ±2°C (one hour after reflow)					
Frequency Stability vs Temperature (see options)		±2.5 ppm	±5.0 ppm	±10.0 ppm		
	-40° to +85°C	○	○	○		
	-40° to +105°C	◇	◇	○		
○ : 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

SX2CTE				Mhz
Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Frequency in MHz
18 = +1.8V 25 = +2.5V 33 = +3.3V	K = -40° / +85°C L = -40° / +105°C	2.5 = ±2.5 ppm 5.0 = ±5.0 ppm 10.0 = ±10 ppm	E = Tri-state	Please specify the frequency in MHz

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

OUTLINE DIMENSIONS (MM)



Pin Connections

#1: E/D

#2: GND

#3: Output

#4: Vdd