

## SX2C

## HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

### FEATURES

- Ultra-miniature package
- High shock and vibrational resistivity
- Applications: Telecommunications, Portable electronics, IoT, ...

2.5 x 2.0 x 0.9 mm



Item	Specification
Frequency Range	0.75 kHz ~ 160.0 MHz
Output Signal	CMOS
Overall Frequency Stability *	± 10 ppm ~ ± 100 ppm (see options)
Operating Temperature Range	0 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application (see options)
Supply Voltage Vdd	+1.0V ±5%   +1.2V ±5%   +1.5V ±5%   +1.8V ±5%   +2.5V ±5%   +1.8V ~ 3.3V ±10%   +3.3V ±10%
Supply Current Idd	1 mA ~ 2 mA   4 mA ~ 10 mA   4 mA ~ 12 mA   5 mA ~ 20 mA   5 mA ~ 25 mA   5 mA ~ 30 mA
Output Level	VOH ≥ 0.9 Vdd   VOL ≤ 0.1 Vdd
Output Load	15 pF
Symmetry	45 / 55 %
Rise / Fall time Fr/Ff	2 ~ 10 ns
Tri-state function	pin #1 = high or open   pin #3 = oscillation pin #1 = low   pin #3 = disable
Standby current	10 µA max
Start-up Time	5 ms max.
RMS Jitter ( 12 kHz to 20 MHz band )	1 ps max.
Packing Unit	3000pcs / reel
Soldering Condition	260°C , 10 sec x2 max

Customer specifications on request

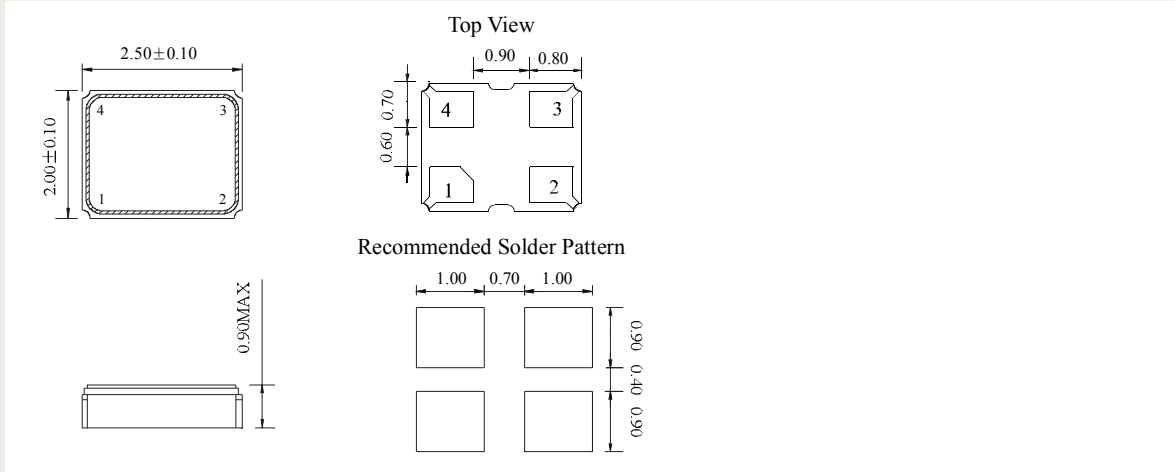
(\*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

## OPTIONS & ORDERING INFORMATION

.....	.....	.....	.....	.....	..... MHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in MHz
<b>10</b> = +1.0V	<b>D</b> = -10° / +60°C	<b>10</b> = ±10 ppm	<b>E</b> = Tri-state	<b>Blanc</b> = 15 pF	Please specify the frequency in MHz
<b>12</b> = +1.2V	<b>E</b> = 0° / +70°C	<b>15</b> = ±15 ppm			
<b>15</b> = +1.5V	<b>F</b> = -20° / +70°C	<b>20</b> = ±20 ppm			
<b>18</b> = +1.8V	<b>H</b> = -30° / +85°C	<b>25</b> = ±25 ppm			
<b>25</b> = +2.5V	<b>K</b> = -40° / +85°C	<b>30</b> = ±30 ppm			
<b>1V3</b> = +1.8V ~+3.3V	<b>L</b> = -40° / +105°C	<b>50</b> = ±50 ppm			
<b>33</b> = +3.3V		<b>100</b> = ±100 ppm			

(\*) Note : Not all combinations are possible, please consult us.

## OUTLINE DIMENSIONS



### Pin Connections

#1 : E/D

#2 : GND

#3: Output

#4 : Vcc