

## Datasheet

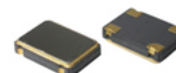
### SX1C

### HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

## FEATURES

2.0 x 1.6 x 0.7 mm

- Smallest industry package
- High shock and vibrational resistivity
- Applications: Telecommunications, Portable electronics, ...



Item	Specification				
Frequency Range	1.5 MHz ~ 80.0 MHz				
Output Logic	CMOS				
Overall Frequency Stability *	± 20 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	+1.8V ±5%	+2.5V ±5%	+2.8V ±5%	+3.0V ±5%	+3.3V ±5%
Supply Current Idd	2.5 mA ~ 20 mA	3 mA ~ 20 mA	3 mA ~ 25 mA	3.5 mA ~ 25 mA	3.5 mA ~ 30 mA
Output Level	VOH ≥ 0.9 Vdd		VOL ≤ 0.1 Vdd		
Output Load	15 pF (see options)				
Symmetry	45 / 55 %				
Rise Time / Fall Time Fr/Ff	3 ~ 5 ns				
Tri-state function	pin #1 = high or open pin #1 = low		pin #3 = oscillation pin #3 = high impedance		
Start-up Time	10 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

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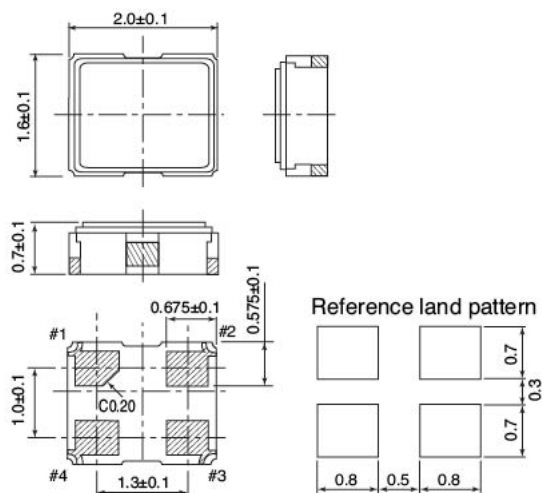
.....	.....	.....	.....	.....	..... MHz
Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in MHz
<b>18</b> = +1.8V	<b>D</b> = -10° / +60°C	<b>20</b> = ±20 ppm	<b>E</b> = Tri-state	<b>Blanc</b> = 15 pF	Please specify the
<b>25</b> = +2.5V	<b>E</b> = 0° / +70°C	<b>25</b> = ±25 ppm		<b>H</b> = 30 pF	frequency in MHz
<b>28</b> = +2.8V	<b>F</b> = -20° / +70°C	<b>30</b> = ±30 ppm			
<b>30</b> = +3.0V	<b>H</b> = -30° / +85°C	<b>50</b> = ±50 ppm			
<b>33</b> = +3.3V	<b>K</b> = -40° / +85°C	<b>100</b> = ±100 ppm			

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

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## OUTLINE DIMENSIONS



#### Pin Connections

#1 : E/D

#2 : GND

#3: Output

#4 : Vcc