

## Datasheet

### SX2CG

### HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

## FEATURES

2.5 x 2.0 x 0.9 mm

- Ultra-miniature package
- Industrial grade tight temperature stability available ( + -10 ppm -40/+85°C )
- Low phase noise
- Applications: Wireless LAN, Home networking, mobile communications,...



Item	Specification
Frequency Range	2.5 MHz ~ 55.0 MHz
Output Logic	CMOS
Overall Frequency Stability *	± 10 ppm ~ ± 20 ppm ( see options )
Operating Temperature Range	-40° ~ +85°C
Supply Voltage Vdd	+1.8V ±5%      +2.5V ±5%      +2.8V ±5%      +3.0V ±5%      +3.3V ±5%
Supply Current Idd	7 mA max.
Output Level	VOH ≥ 0.9 Vdd      VOL ≤ 0.1 Vdd
Output Load	15 pF
Symmetry	40 / 55 %
Rise Time / Fall Time Fr/Ff	5 ns max
Tri-state function	pin #1 = high or open      pin #3 ==> oscillation pin #1 = low      pin #3 ==> high impedance
Start-up Time	10 ms max.
RMS Jitter ( 12 kHz to 20 MHz band )	1 ps max.
Phase Noise	-150 dBc/Hz typ. at 10 kHz offset
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>K</b> = -40° / +85°C	<b>10</b> = ±10 ppm	<b>E</b> = Tri-state	<b>blanc</b> = 15pF	Please specify the frequency in MHz
<b>25</b> = +2.5V		<b>15</b> = ±15 ppm			
<b>28</b> = +2.8V		<b>20</b> = ±20 ppm			
<b>30</b> = +3.0V					
<b>33</b> = +3.3V					

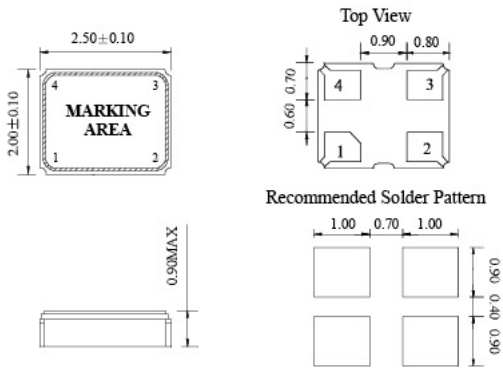
(\*) Note : Not all combinations are possible, please consult us.

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**OUTLINE DIMENSIONS (mm)**



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