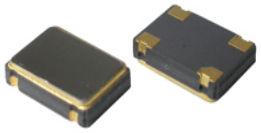
Datasheet

SX3C — HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

3.2 x 2.5 x 1.2 mm

- Ultra-miniature package
- High shock and vibrational resistivity
- Low current consumption
- Applications: Wireless communications, Portable electronics,...



Item	Specification					
Frequency Range	1.5 MHz ~ 133.0 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%	+5.0V ±5%
Supply Current Idd	5 mA ~ 20 mA	5 mA ~ 25 mA	5 mA ~ 25 mA	5 mA ~ 30 mA	5 mA ~ 35 mA	5 mA ~ 40 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

SX3C .... - ..... MHz

Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in MHz
18 = +1.8V	**D =** -10° / +60°C	**20 =** ±20 ppm	**E =** Tri-state	**Blanc =** 15 pF	Please specify the frequency in MHz
25 = +2.5V	**E =** 0° / +70°C	**25 =** ±25 ppm		**H =** 30 pF	
28 = +2.8V	**F =** -20° / +70°C	**30 =** ±30 ppm			
30 = +3.0V	**H =** -30° / +85°C	**50 =** ±50 ppm			
33 = +3.3V	**K =** -40° / +85°C	**100 =** ±100 ppm			
50 = +5.0V					

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

Rev. 09-2012

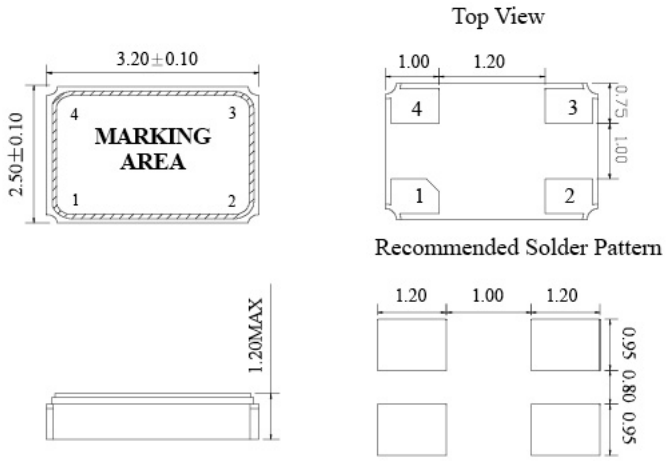
FCD-Tech B.V.
Stationsplein 99/259
1703 WE Heerhugowaard
Netherlands

Phone: +31 (0)20 8932140
Email: sales@fcd-tech.com
Website: www.fcd-tech.com

Datasheet

SX3C HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

OUTLINE DIMENSIONS



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

Rev. 09-2012

FCD-Tech B.V.
Stationsplein 99/259
1703 WE Heerhugowaard
Netherlands

Phone: +31 (0)20 8932140
Email: sales@fcd-tech.com
Website: www.fcd-tech.com