

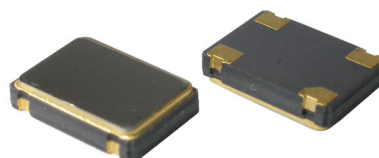
SX5CJ

HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Ultra Low Phase Noise oscillator
- RMS jitter 48 fsec.

5.0 x 3.2 x 1.3 mm



Item	Specification	
Frequency Range	5.0 MHz ~ 50.0 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 $\pm 5\%$ +2.5V $\pm 5\%$ +3.3V $\pm 5\%$	
Supply Current Idd	5 mA max. 7 mA max 10 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 ==> high impedance	
Start-up Time	5 ms max.	
RMS Jitter (12 kHz - 20 MHz)	48 fsec typ. (3.3V) , 115 fsec typ. (1.8V)	
Phase Noise (typical)	Offset	Frequency 49.152 MHz (3.3V)
	10 Hz	-91 dBc / Hz
	100 Hz	-126 dBc / Hz
	1 kHz	-141 dBc / Hz
	10 kHz	-153 dBc / Hz
	100 kHz	-166 dBc / Hz
	1 MHz	-171 dBc / Hz
	10 MHz	-172 dBc / Hz
Packing Unit	1000pcs / reel	
Soldering Condition	260°C , 10 sec x2 max	

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

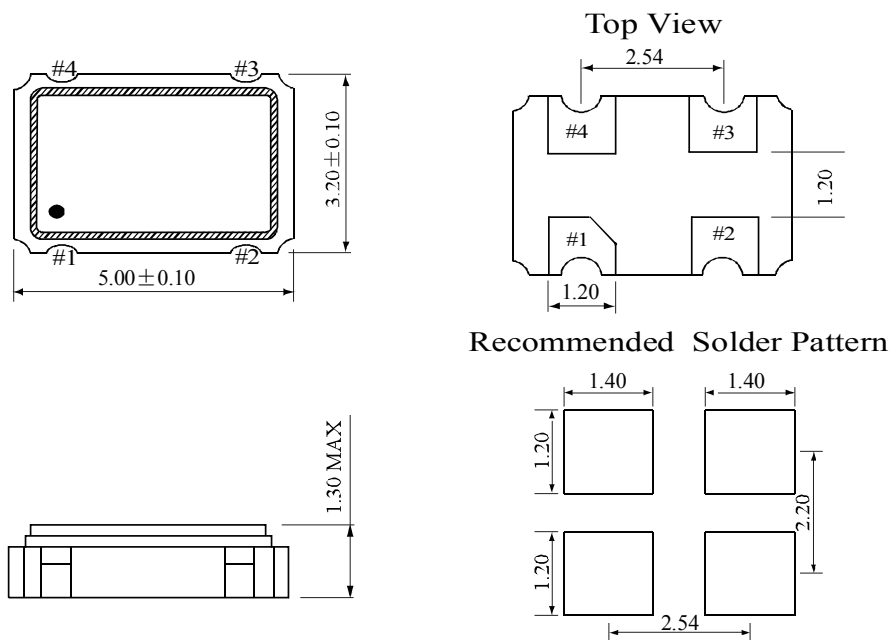
Customer specifications on request

OPTIONS & ORDERING INFORMATION

SX5CJ					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			
33 = +3.3V	F = -20° / +70°C	30 = ±30 ppm			
	G = -30° / +75°C	50 = ±50 ppm			
	H = -30° / +85°C	100 = ±100 ppm			
	K = -40° / +85°C				

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

OUTLINE DIMENSIONS (MM)



Pin Connections

#1 : E/D

#2 : GND

#3: Output

#4 :Vdd