

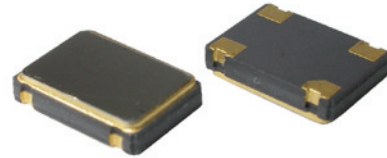
SX3CJ

HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

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

3.2 x 2.5 x 1.1 mm



Item	Specification		
Frequency Range	20.0 MHz ~ 50.0 MHz		
Output Logic	CMOS		
Overall Frequency Stability *	± 20 ppm ~ ± 100 ppm (see options)		
Operating Temperature Range	0 ~ +70°C -40 ~ +85°C	commercial application industrial application	(see options) (see options)
Supply Voltage Vdd	+1.8V ±5%	+2.5V ±5%	+3.3V ±5%
Supply Current Idd	5 mA max.	7 mA max	10 mA
Output Level	VOH ≥ 0.9Vdd	VOL ≤ 0.1Vdd	
Output Load	15 pF		
Symmetry	45 / 55 %		
Rise / Fall time Fr/Ff	2 ~ 10 ns		
Tri-state function	pin #1 = high or open pin#1 = low	pin #3 ==> oscillation 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	3000pcs / 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

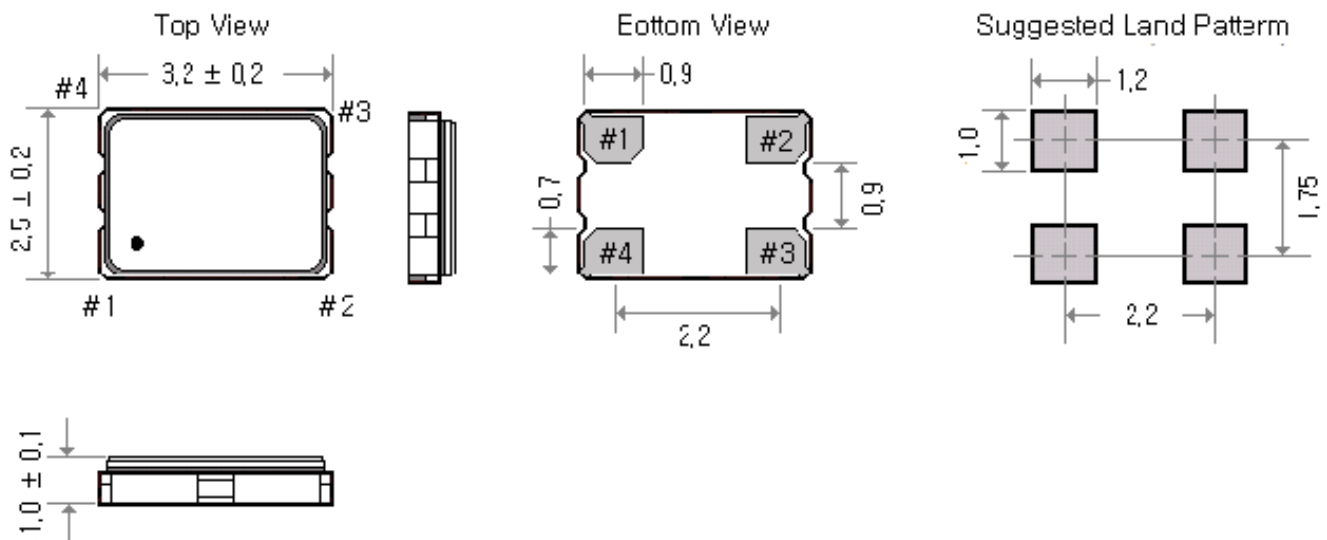
Customer specifications on request

OPTIONS & ORDERING INFORMATION

SX3CJ						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