

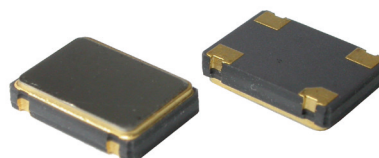
# SX5CT

# HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

## FEATURES

- Miniature package
- Low current consumption
- Low cost
- Applications: Mobile phones, Portable radio equipment, ...

5.0 × 3.2 × 1.2 mm



Item	Specification																																										
Frequency Range	1.25 MHz ~ 54.0 MHz																																										
Output Signal	CMOS																																										
Supply Voltage Vdd ( see options )	+1.8V ±5%                  +2.5V ±5%                  +2.8V ±5%                  +3.0V ±5%                  +3.3V ±5%																																										
Supply Current Idd	6 mA max																																										
Frequency Tolerance	±1.0 ppm at 25°C ±2°C																																										
Frequency Stability vs Temperature ( see options )	<table><tr><th></th><th>±0.5 ppm</th><th>±1.0 ppm</th><th>±1.5 ppm</th><th>±2.0 ppm</th><th>±2.5 ppm</th><th>±3.0 ppm</th></tr><tr><td>0° to +50°C</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr><tr><td>-10° to +60°C</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr><tr><td>-20° to +70°C</td><td>×</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr><tr><td>-30° to +75°C</td><td>×</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr><tr><td>-40° to +85°C</td><td>×</td><td>◇</td><td>○</td><td>○</td><td>○</td><td>○</td></tr></table> <p>○ = available                  ◇ = please contact us                  × = not available</p>		±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm	0° to +50°C	○	○	○	○	○	○	-10° to +60°C	○	○	○	○	○	○	-20° to +70°C	×	○	○	○	○	○	-30° to +75°C	×	○	○	○	○	○	-40° to +85°C	×	◇	○	○	○	○
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Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C																																										
Frequency Stability vs Voltage Change	±0.3 ppm max. , for a ±5% input voltage change																																										
Frequency Stability vs Load Change	±0.3 ppm max. , for a ±10% load condition change																																										
Output Level	VOH ≥ 0.9Vdd    VOL ≤ 0.1 Vdd																																										
Output Load	15 pF																																										
Symmetry	45 / 55 %																																										
Rise / 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	5 ms typ. , 10 ms max.																																										
Integrated Phase Jitter ( 12 kHz to 20 MHz band )	1 ps max.																																										
Phase noise	-145 dBc/Hz typ. at 10 kHz offset																																										
Packing Unit	3000pcs / reel																																										
Soldering Condition	260°C , 10 sec x2 max																																										

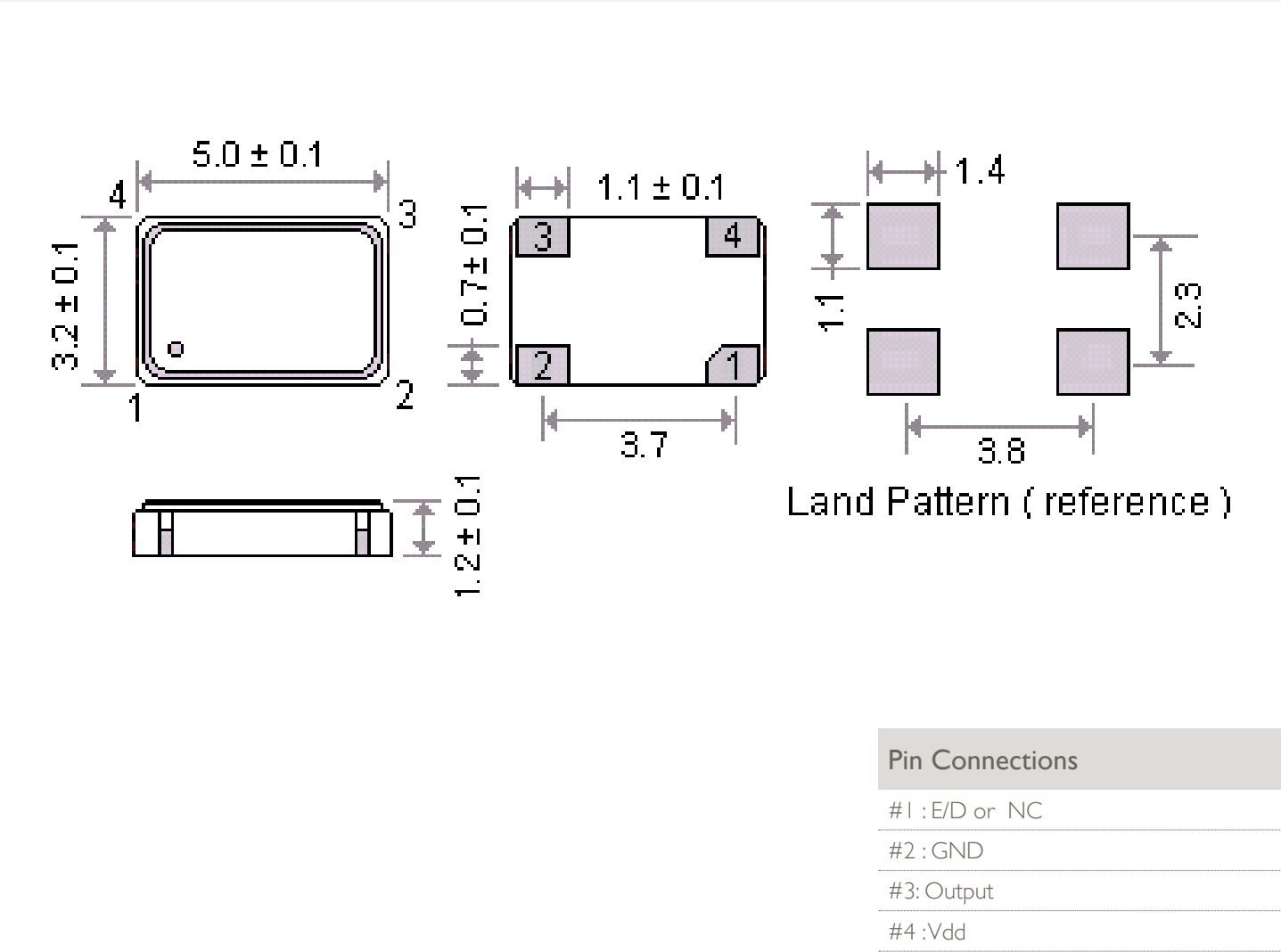
Customer specifications on request

OPTIONS & ORDERING INFORMATION

SX5CT						MHz
	Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
	18 = +1.8V	C = 0° / +50°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	Please specify the frequency in MHz
	25 = +2.5V	D = -10° / +60°C	1.0 = ±1.0 ppm	EI = Tri-state , pin #1		
	28 = +2.8V	F = -20° / +70°C	1.5 = ±1.5 ppm			
	30 = +3.0V	G = -30° / +75°C	2.0 = ±2.0 ppm			
	33 = +3.3V	H = -30° / +85°C	2.5 = ±2.5 ppm			
		K = -40° / +85°C	3.0 = ±3.0 ppm			

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

OUTLINE DIMENSIONS (MM)



Pin Connections

#1 : E/D or NC

#2 : GND

#3: Output

#4 :Vdd