





### SX5CT

# HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

#### **FEATURES**

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

 $5.0 \times 3.2 \times 1.2 \text{ mm}$ 



Item	Specification							
Frequency Range	6.4 MHz ~ 52 MHz							
Output Signal	CMOS							
Supply Voltage Vdd ( see options )	+1.8V ±5%	+2.5V ±5%	+2.8	V ±5%	+3.0V ±5%	+3.3\	/ ±5%	
Supply Current Idd	6 mA max							
Frequency Tolerance	±1.0 ppm at 25°C ±2°C							
Frequency Stability vs Temperature ( see options )	0° to +50°C -10° to +60°C -20° to +70°C -30° to +75°C -40° to +85°C	±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm	
Frequency Stability vs Aging	$O = \text{available}$ $\diamondsuit = \text{please contact us}$ $X = \text{not available}$ ±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 ≥ 0.9 Vdd VOL ≤ 0.1 Vdd							
Output Load	15 pF							
Symmetry	45 / 55 %							
Rise / Fall time Fr/Ff	5 ns max.							
Start-up Time	5 ms typ., 10 ms max.							
Integrated Phase Jitter ( 12 kHz to 20 MHz band )	I ps max.							
Phase noise	-145 dBc/Hz typ. at 10 kHz offset							
Packing Unit	3000pcs / reel							
Soldering Condition	260°C , 10 sec x2 m	nax						
Customer specifications on request								





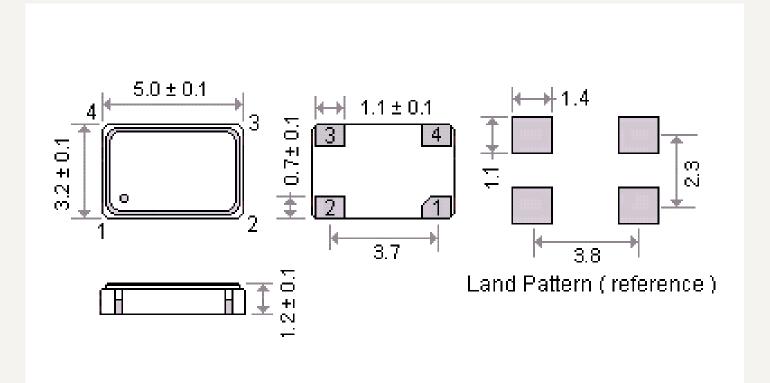


## **OPTIONS & ORDERING INFORMATION**

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

 $<sup>\</sup>ensuremath{^{\circ}}$  Note : Not all combinations are possible , please consult us.

# OUTLINE DIMENSIONS (MM)



Pin Connections
#1 : NC
#2 : GND
#3: Output
#4 :Vdd