SX2CT

HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

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

2.5 x 2.0 x 0.9 mm

Item	Specification
Frequency Range	9.5 MHz ~ 60.0 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)	

	±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm
0° to +50°C	O	O	O	O	O	O
-10° to +60°C	O	O	O	O	O	O
-20° to +70°C	◊	O	O	O	O	O
-30° to +75°C	◊	O	O	O	O	O
-40° to +85°C	◊	◊	O	O	O	O

O = available ◊ = please contact us X = not available

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 ≥ 0.9 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)	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

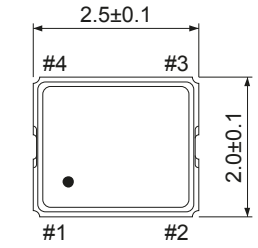
OPTIONS & ORDERING INFORMATION

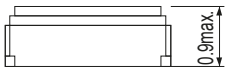
SX2CT .....MHz

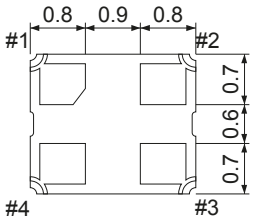
Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
18 = +1.8V	C = 0° / +50°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	Please specify the frequency in MHz
25 = +2.5V	D = -10° / +60°C	1.0 = ±1.0 ppm			
28 = +2.8V	F = -20° / +70°C	1.5 = ±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			

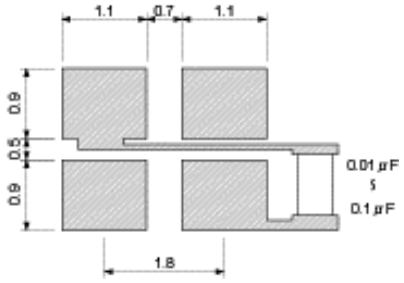
* Note : Not all combinations are possible , please consult us.

OUTLINE DIMENSIONS (MM)









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