

Datasheet

SX5CTN HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

5.0 x 3.2 x 2.3 mm

- Miniature package
- Low cost
- Wide frequency range
- Applications: Reference clock, Communication equipment, ...



Item	Specification						
Frequency Range	27.0 MHz to 200.0 MHz						
Output Logic	CMOS						
Standard Frequency	30.000 ; 32.768 ; 38.880 ; 40.000 ; 50.000 ; 54.000 ; 64.000 77.760 ; 80.000 ; 100.000 ; 128.000 ; 155.520 ; 54.000 ; 160.000 ; 200.000						
Supply Voltage Vdd	+3.3V ±5%						
Supply Current Idd	40.0 mA max., frequency dependent						
Frequency Tolerance	±2.0 ppm at 25°C ±2°C (one hour after reflow)						
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
	-20° to +70°C	x	o	o	o	o	o
	-30° to +75°C	x	o	o	o	o	o
	-30° to +85°C	x	o	o	o	o	o
	-40° to +85°C	x	o	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 Time / Fall Time Fr / Ff	10 ns max.						
Start-up Time	5 ms typ., 10 ms max.						
Phase noise	Offset / dBc / Hz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
	(typical)						
	77.760 MHz	-76 dBc / Hz	-105 dBc / Hz	-116 dBc / Hz	-120 dBc / Hz	-121 dBc / Hz	
155.520 MHz	-65 dBc / Hz	-96 dBc / Hz	-110 dBc / Hz	-112 dBc / Hz	-115 dBc / Hz		
Packing Unit	1000 pcs / reel						
Soldering Conditions	260°C, 10 sec x2 max						

Customer specifications on request

OPTIONS & ORDERING INFORMATION

SX5CTN

Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package Type	Frequency in MHz
33 = +3.3V	C = 0° / +50°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	Please specify the frequency in MHz
	D = -10° / +60°C	1.0 = ±1.0 ppm		6P = 6-pad version	
	F = -20° / +70°C	1.5 = ±1.5 ppm			
	G = -30° / +75°C	2.0 = ±2.0 ppm			
	H = -30° / +85°C	2.5 = ±2.5 ppm			
	K = -40° / +85°C	3.0 = ±3.0 ppm			

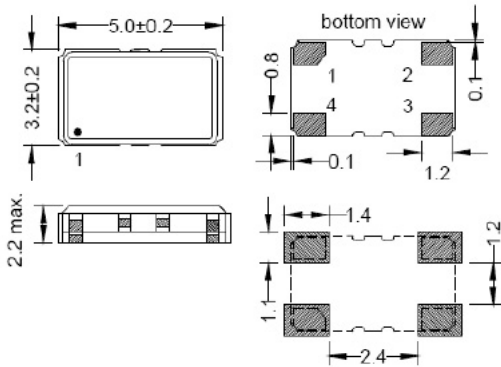
(*) Note : Not all combinations are possible, please consult us.

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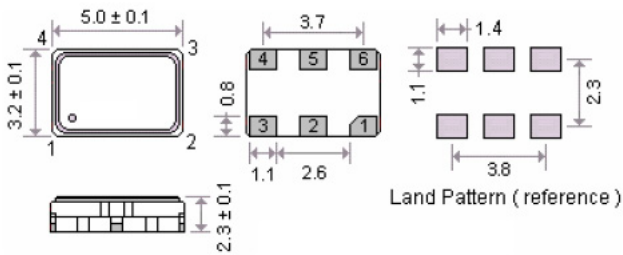
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OUTLINE DIMENSIONS



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



Pin Connections #1 : NC #2 : NC #3: GND #4: Output #5 : NC #6: Vdd