

SX7CTN

HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

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

7.0 x 5.0 x 2.3 mm



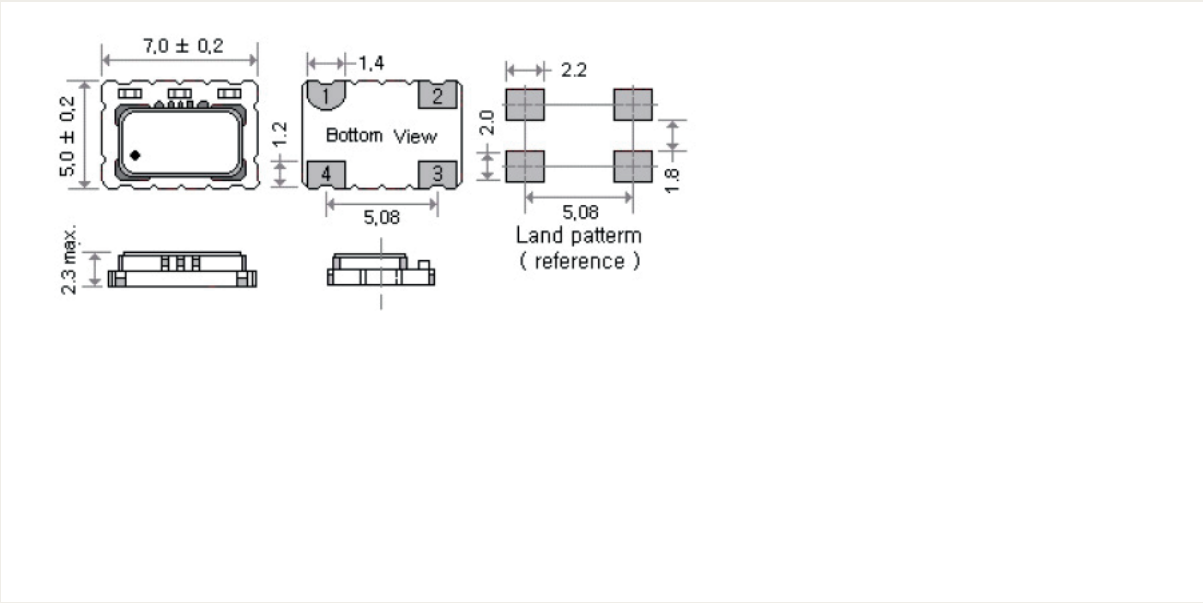
Item	Specification						
Frequency Range	3.0 MHz ~ 250.0 MHz						
Output Logic	CMOS						
Standard Frequency	30.000 ; 32.768 ; 38.880 ; 40.000 ; 50.000 ; 54.000 ; 64.000 77.760 ; 80.000 ; 100.000 ; 128.000 ; 155.520 ; 54.000 ; 160.000 ; 200.000						
Supply Voltage Vdd	+3.3V ±5%						
Supply Current 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 (typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
	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

SX7CTN					 MHz
Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package Type	Frequency in MHz
33 = +3.3V	C = 0° / +50°C D = -10° / +60°C F = -20° / +70°C G = -30° / +75°C H = -30° / +85°C K = -40° / +85°C	0.5 = ±0.5 ppm 1.0 = ±1.0 ppm 1.5 = ±1.5 ppm 2.0 = ±2.0 ppm 2.5 = ±2.5 ppm 3.0 = ±3.0 ppm	F = No Tri-state	4P = 4-pad version	Please specify the frequency in MHz

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

OUTLINE DIMENSIONS



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