

SX7LTW

LVDS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Low cost
- High frequency
- Applications: WLAN, xDSL, ...

7.0 x 5.0 x 2.3 mm



Item	Specification					
Frequency Range	12.0 MHz ~ 800.0 MHz					
Output Logic	LVDS					
Supply Voltage Vdd	+3.3 V ±5%					
Supply Current Idd	40 Mhz	46 mA typ.				
	80 MHz	47 mA typ.				
	320 MHz	49 mA typ.				
	640 MHz	52 mA typ.				
Frequency Tolerance	±1.0 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
	0° to +50°C	o	o	o	o	o
	-10° to +60°C	◇	o	o	o	o
	-20° to +70°C	◇	o	o	o	o
	-30° to +85°C	x	o	o	o	o
	-40° to +85°C	x	◇	◇	o	o
	o = availabe		◇ = 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 Voltage High VOH	1.43 V typ. ; 1.6 V max					
Output Voltage Low VOL	1.1 V typ. ; 0.9 V min.					
Output Load	50 ohm from each output					
Symmetry	45 / 55%					
Rise Time / Fall Time Fr / Ff	1.0 ns max.					
Tri-state Function	pin #2 = high or open			pin #4 - #5 ==> oscillation		
	pin #2 = low			pin #4 - #5 ==> high impedance		
Start-up Time	5 ms typ. ; 10 ms max.					
Integrated Phase Jitter (12 kHz to 20 MHz band)	3.6 ps typical (For 100.000 MHz)					
Period Jitter RMS	3.5 ps typical (For 100.000 MHz)					
Period Jitter Peak-to-peak	35.0 ps typical (For 100.000 MHz)					
Phase Noise	Offset / dBc / Hz (typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz.
	100.000 MHz	-66 dBc / Hz	-100 dBc / Hz	-110 dBc / Hz	-115 dBc / Hz	-117 dBc / Hz
	622.080 MHz	-52 dBc / Hz	-81 dBc / Hz	-102 dBc / Hz	-111 dBc / Hz	-115 dBc / Hz
Packing Unit	1000 pcs / reel					
Soldering Condition	260°C, 10 sec x2 max					

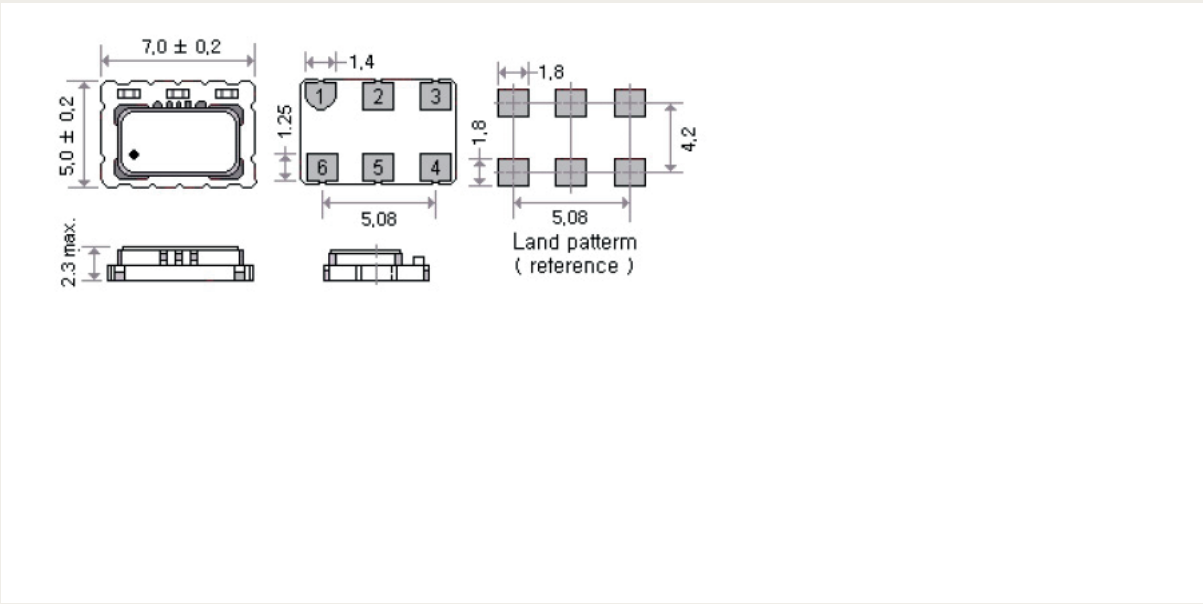
Customer specifications on request

OPTIONS & ORDERING INFORMATION

SX7LTW					 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 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	E2 = Tri-state, pad 2	6P = 6-pad version	Please specify the frequency in MHz

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

OUTLINE DIMENSIONS



Pin Connections	#1 : NC	#2 : Tri-state	#3: GND
	#4 : Output	#5 : Complementary output	#6: Vdd