

SX7ETW

LVPECL SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

7.0 x 5.0 x 2.3 mm

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



Item	Specification									
Frequency Range	12.0 MHz ~ 800.0 MHz									
Output Logic	LVPECL									
Supply Voltage Vdd	+3.3 V \pm 5%									
Supply Current Idd	40 MHz 95 mA typ. 80 MHz 96 mA typ. 320 MHz 98 mA typ. 640 MHz 100 mA typ.									
Frequency Tolerance	\pm 1.0 ppm at 25°C \pm 2°C (one hour after reflow)									
Frequency Stability vs Temperature (see options)	\pm0.5 ppm	\pm1.0 ppm	\pm1.5 ppm	\pm2.0 ppm	\pm2.5 ppm					
0° to +50°C	o	o	o	o	o					
-10° to +60°C	o	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 = available		◊ = please contact us		x = not available						
Frequency Stability vs. Aging	\pm 1.0 ppm max. per year at 25°C									
Frequency Stability vs. Voltage Change	\pm 0.3 ppm max., for a \pm 5% input voltage change									
Frequency Stability vs. Load Change	\pm 0.3 ppm max., for a \pm 10% load condition change									
Output Voltage High VOH	VOH = 2.275 V (min), Vdd -1.025 V min.									
Output Voltage Low VOL	VOL = 1.680 V (max), Vdd -1.620 V max.									
Output Load	50 ohm to Vdd-2V									
Symmetry	45 / 55%									
Rise Time / Fall Time Fr / Ff	2.0 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)	2.6 ps typical (For 155.520 MHz)									
Period Jitter RMS	4.5 ps typical (For 155.520 MHz)									
Period Jitter Peak-to-peak	40.0 ps typical (For 155.520 MHz)									
Phase Noise	Offset / dBc / Hz (typical)	10 Hz	100 Hz	1 kHz	10 kHz					
	155.520 MHz	-62 dBc / Hz	-90 dBc / Hz	-115 dBc / Hz	-125 dBc / Hz					
	622.080 MHz	-52 dBc / Hz	-81 dBc / Hz	-102 dBc / Hz	-111 dBc / Hz					
Packing Unit	1000 pcs / reel									
Soldering Condition	260°C, 10 sec x2 max									
Customer specifications on request										

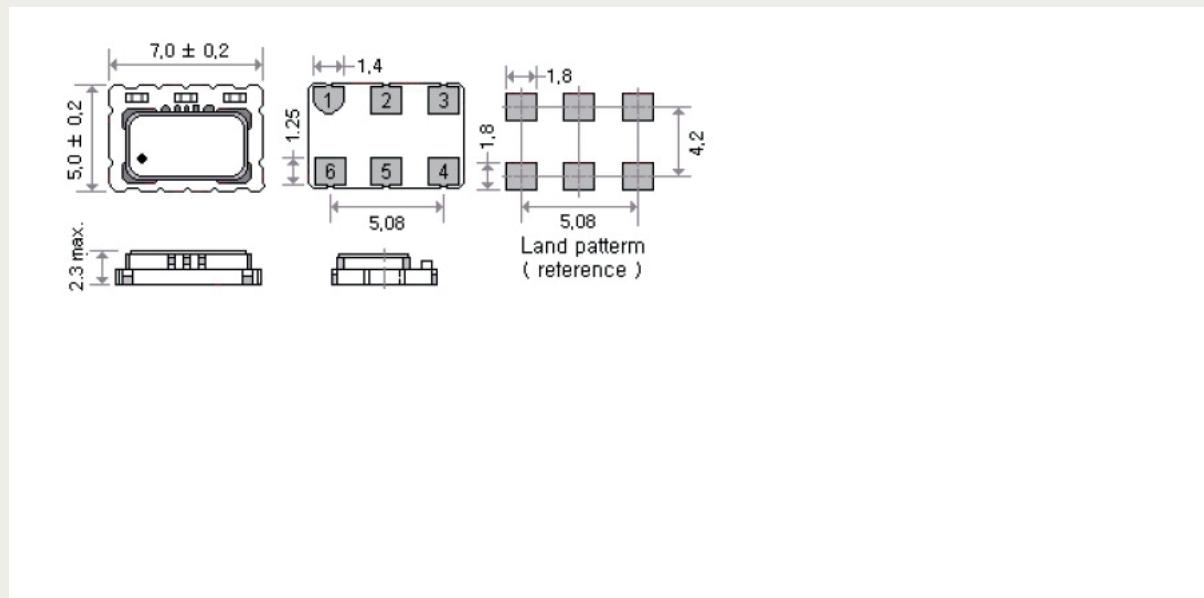
OPTIONS & ORDERING INFORMATION

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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	E2 = Tri-state, pad 2	6P = 6-pad version	Please specify the frequency in MHz
	D = -10° / +60°C	1.0 = ±1.0 ppm			
	F = -20° / +70°C	1.5 = ±1.5 ppm			
	H = -30° / +85°C	2.0 = ±2.0 ppm			
	K = -40° / +85°C	2.5 = ±2.5 ppm			

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

OUTLINE DIMENSIONS



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