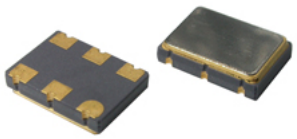
Datasheet

SX7EW LVPECL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Moderatre jitter at low cost
- Multiplier circuit, PLL design
- Applications : SONET, xDSL, Video,....

7.0 x 5.0 x 1.8 mm



Item	Specification	
Frequence Range	1 MHz ~ 800 MHz	
Output Logic	LVPECL	
Overall Frequency Stability*	± 20 ppm ~ ± 100 ppm (see options)	
Operating Temperature Range	0 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application (see options)	
Supply Voltage Vdd	+3.3V ±5%	
Supply Voltage Idd	<24 MHz : 25 mA max. 24.01 MHz ~ 96 MHz : 65 mA max. 96.01 MHz ~ 800 MHz : 100 mA max.	
Output Voltage HIGH VOH	Vdd -1.025 V min. ; Vdd -0.95 V typ. ; Vdd -0.88 V max	
Output Voltage LOW VOL	Vdd -1.810 V min. ; Vdd -1.70 V typ. ; Vdd -1.62 V max	
Output Load	50 ohm to Vdd-2V	
Symmetry	45/55%	
Rise Time/Fall Time Fr/Ff	0.6 ns typ. ; 1.5 ns max.	
Tri-state function	pin #1 or #2= high or open pin #1 or #2= low	pin #4 - #5 ==> oscillation pin #4 - #5 ==> high impedance
Start-up time	3 ms typ. ; 10 ms max.	
Integrated Phase Jitter (12 kHz to 20 MHz band)	2.6 ps typical ; 4.0 ps max (For 155.520 MHz)	
Period Jitter RMS	4.3 ps typical (For 155.520 MHz)	
Period Jitter peak-to-peak	27.0 ps typical (For 155.52 MHz)	
Phase Noise (typical)	**Offset** 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz	**Frequency 122.880 MHz** -62 dBc / Hz -92 dBc / Hz -120 dBc / Hz -132 dBc / Hz -128 dBc / Hz
Packing Unit	1000pcs / reel	
Soldering Condition	260°C , 10 sec x2 max	
	Customer specifications on request	

(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging.

Rev. 09-2012

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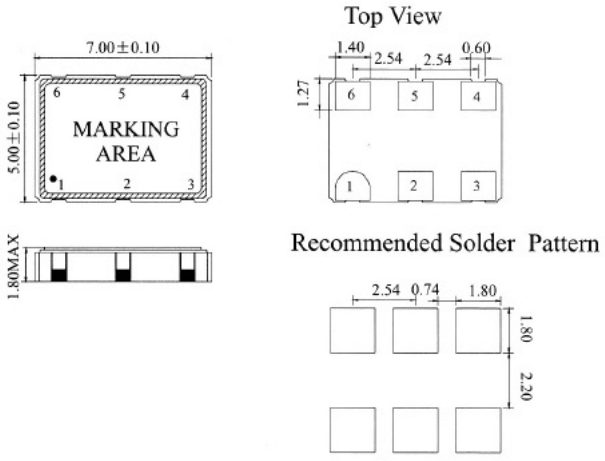
OPTIONS & ORDERING INFORMATION

SX7EW .....MHz

Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
33 = +3.3V	**E =** 0°/+70°C	**20 =** ±20 ppm	**E1 =** Tri-state, pin 1	Please specify the frequency in MHz
	F = -20°/+70°C	**25 =** ±25 ppm	**E2 =** Tri-state, pin 2	
	K = -40°/+85°C	**30 =** ±30 ppm		
		50 = ±50 ppm		
		100 = ±100 ppm		

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

OUTLINE DIMENSIONS (mm)



Pin Connections			
	#1 : E/D or NC	**#2** : E/D or NC	**#3**: GND
	#4 : Output	**#5** : Complementary output	**#6**: Vdd

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