

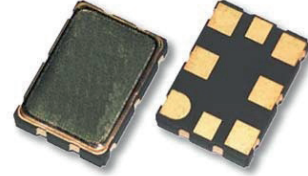
SX7HU

HCSSL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Standard miniature package
- Ultra-low Jitter
- Up to 700 MHz
- Short delivery

7.0 x 5.0 x 1.8 mm



Item	Specification			
Frequency Range	150.0 MHz~700 MHz			
Output Signal	HCSSL			
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	+1.8V ±5%	+2.5V ±10%	+3.3V ±10%	
Supply Current Idd	95 mA typ. ; 115 mA max.			
Output Voltage HIGH VOH	660 mV min. , 740 mV typ. , 850 mV max.			
Output Voltage LOW VOL	-150 mV min. , 0 mV typ. , 150 mV min.			
Output Load	50 ohm to GND			
Symmetry	45/55%			
Rise Time / Fall Time Fr/Ff	0.4 ns max.			
Tri-state function	pin #1 = high or open pin #1 = low	pin #4 - #5 ==> oscillation pin #4 - #5 ==> high impedance		
Start-up Time	3 ms typ. ; 10 ms max.			
RMS Phase Jitter (12 kHz to 20 MHz)	150 fs typ. , 300 fs max			
Phase Noise (typical)	Offset	Frequency:	156.250 MHz	491.520 MHz
	10 Hz		-70 dBc / Hz	- 62 dBc / Hz
	100 Hz		-100 dBc / Hz	-92 dBc / Hz
	1 kHz		-120 dBc / Hz	-110 dBc / Hz
	10 kHz		-135 dBc / Hz	-120 dBc / Hz
	100 kHz		-142 dBc / Hz	-130 dBc / Hz
	1 MHz		-149 dBc / Hz	-140 dBc / Hz
	10 MHz		-156 dBc / Hz	-153 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

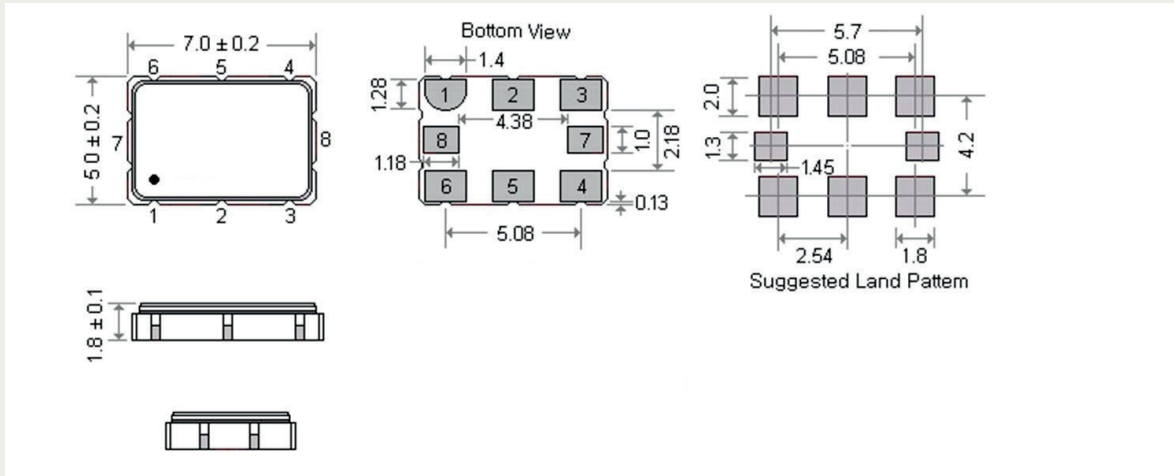
OPTIONS & ORDERING INFORMATION

SX7HU

..... - MHz
Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Frequency in MHz
18 = +1.8V	E = 0°/+70°C	20 = ±20 ppm	E = Tri-state	Please specify the frequency in MHz
25 = +2.5V	F = -20°/+70°C	25 = ±25 ppm		
33 = +3.3V	K = -40°/+85°C	30 = ±30 ppm		
		50 = ±50 ppm		
		100 = ± 100ppm		

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

OUTLINE DIMENSIONS



Pin Connections

#1 : E/D	#2 : NC	#3: GND
#4 : Output	#5 : Complementary output	#6: Vdd
#7 : NC	#8 : NC	