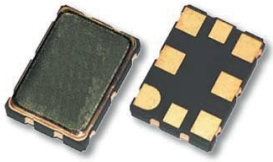
SX5HU

HCSL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

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

5.0 x 3.2 x 1.3 mm



Item	Specification
Frequency Range	150.0 MHz~700 MHz
Output Signal	HCSL
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	0.35 ns max.
Tri-state function	pin #1 = high or open — pin #4 - #5 ==> oscillation pin #1 = low — 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

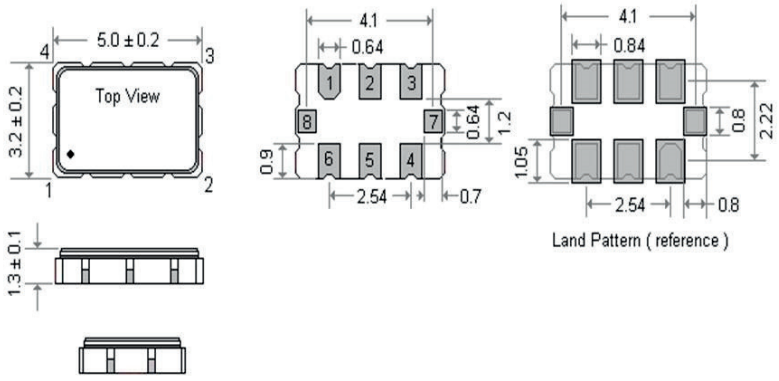
OPTIONS & ORDERING INFORMATION

SX5HU .... - ..... 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	