

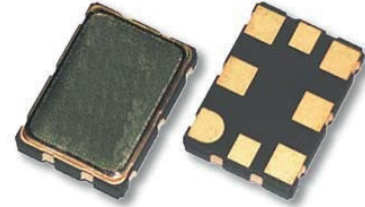
SX7EU

LVPECL SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Standard miniature package
- Ultra-low jitter
- Up to 2100 MHz
- Short delivery

7.0 x 5.0 x 1.8 mm



| Item | Specification | | | |
|--|--|--------------------|--------------------|---|
| Frequency Range | 150.0 MHz ~ 2100 MHz | | | |
| Output Signal | 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 | +2.5V ±5% | | | +3.3V ±5% |
| Supply Current Idd | 100 mA typ. ; 120 mA max | | | |
| Output Voltage HIGH VOH | Vdd -1.165V min. ; Vdd -0.8V max | | | |
| Output Voltage LOW VOL | Vdd -2.0V min. ; Vdd -1.55V max | | | |
| Output Load | 50 ohm to Vdd-2V | | | |
| Symmetry | 45 / 55 % | | | |
| Rise / Fall time Fr/Ff | 0.35 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 | 491.520 MHz | 1500 MHz |
| | | 156.250 MHz | | |
| | 10 Hz | -70 dBc / Hz | -62 dBc / Hz | -54 dBc / Hz |
| | 100 Hz | -100 dBc / Hz | -92 dBc / Hz | -85 dBc / Hz |
| | 1 kHz | -120 dBc / Hz | -110 dBc / Hz | -105 dBc / Hz |
| | 10 kHz | -135 dBc / Hz | -120 dBc / Hz | -111 dBc / Hz |
| | 100 kHz | -142 dBc / Hz | -130 dBc / Hz | -120 dBc / Hz |
| 1 MHz | -149 dBc / Hz | -140 dBc / Hz | -130 dBc / Hz | |
| 10 MHz | -156 dBc / Hz | -153 dBc / Hz | -149 dBc / Hz | |
| Packing Unit | 1000pcs / reel | | | |
| Soldering Condition | 260°C , 10 sec x2 max | | | |

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

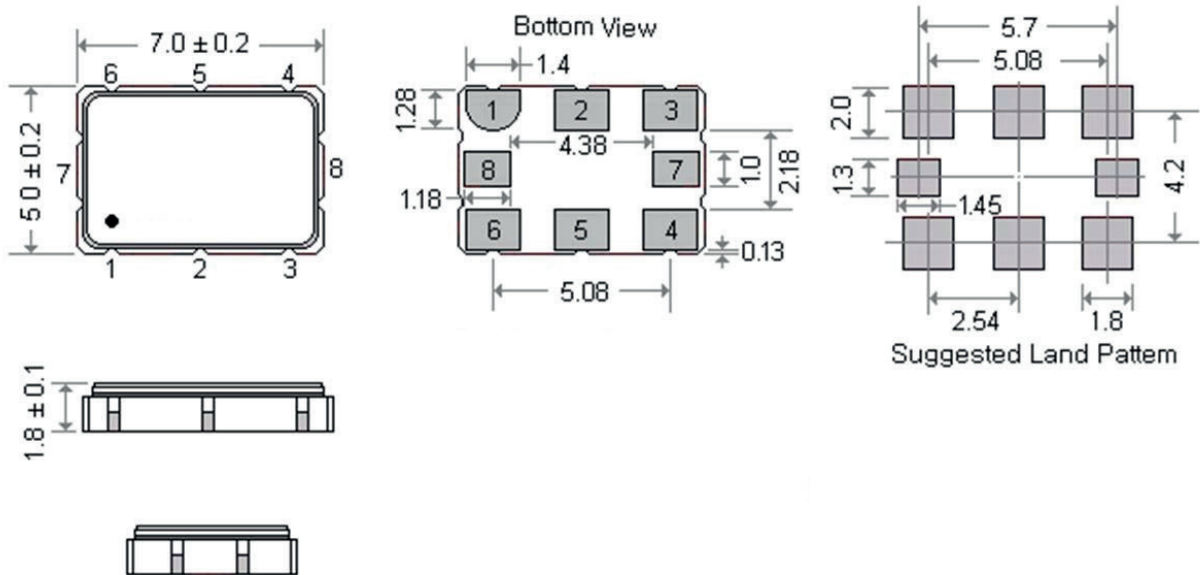
Customer specifications on request

OPTIONS & ORDERING INFORMATION

| SX7EU | | | | | MHz |
|-------|---|---|---|----------------------|-------------------------------------|
| | Supply Voltage * | Operating Temp. * | Overall Stability * | Tri-state Function | Frequency in MHz |
| | 25 = +2.5 V 33 = +3.3V | E = 0° / +70°C F = -20° / +70°C K = -40° / +85°C | 20 = ±20 ppm 25 = ±25 ppm 30 = ±30 ppm 50 = ±50 ppm 100 = ±100 ppm | E = Tri-state | Please specify the frequency in MHz |

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

OUTLINE DIMENSIONS (MM)



Pin Connections

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