

SX3LQ

LVDS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Low Jitter
- Superior phase noise
- Applications : SONET, xDSL, SDH, Set-top box, ...

3.2 x 2.5 x 1.1 mm



| Item | Specification | |
|--|--|---|
| Frequency Range | 10.0 MHz ~ 1450 MHz | |
| Output Logic | LVDS | |
| 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 | 16 mA typ. ; 27 mA max. | |
| Output Voltage HIGH VOH | 1.43 V typ. ; 1.6 V max. | |
| Output Voltage LOW VOL | 1.1 V typ. ; 0.9 V min. | |
| Output Load | 50 ohm from each output | |
| Symmetry | 45/55% | |
| Rise Time/Fall Time Fr/Ff | 0.2 ns typ. ; 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. | |
| Integrated Phase Jitter (12 kHz to 20 MHz band) | 0.6 ps typ. | |
| Phase Noise (typical) | Offset 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz | Frequency 100.000 MHz -70 dBc / Hz -95 dBc / Hz -115 dBc / Hz -121 dBc / Hz -125 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

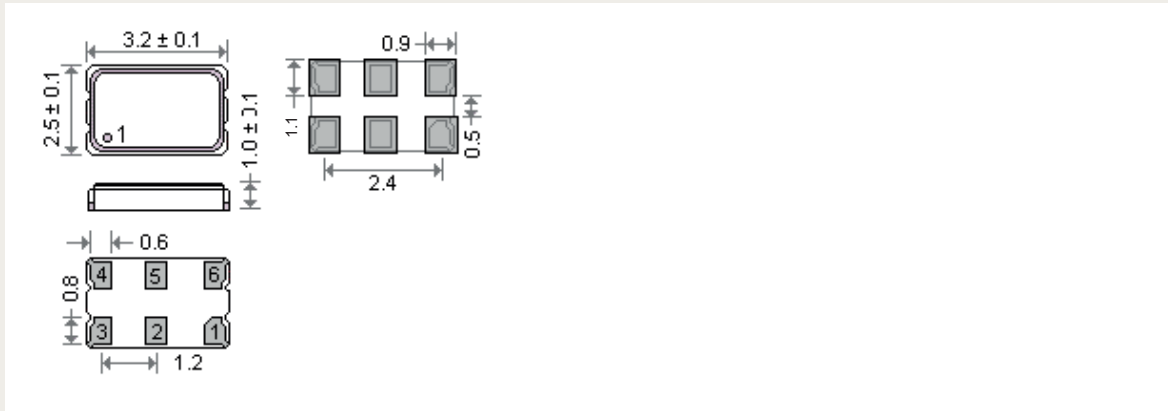
OPTIONS & ORDERING INFORMATION

SX3LQ

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

#4 : Output

#2 : NC

#5 : Complementary output

#3: GND

#6: Vdd