

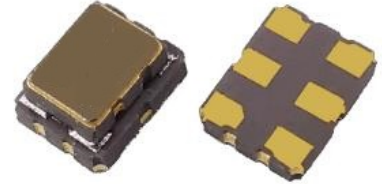
SX3HVTJ

HCSSL SURFACE MOUNT VCTCXO

FEATURES

- ▶ Ultra Low Jitter , 300 fsec typ.
- ▶ Fast delivery

3.2 x 2.5 x 1.6 mm



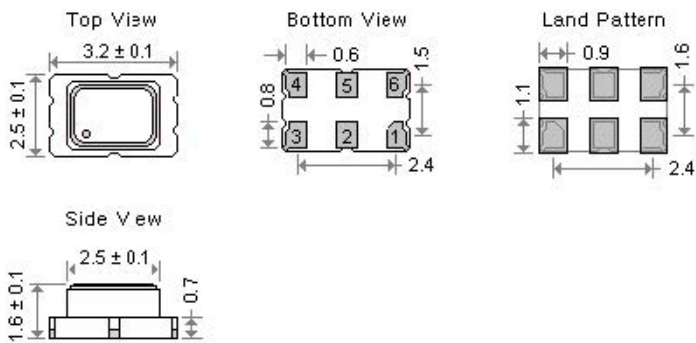
| Item | Specification |
|--|--|
| Frequency Range | 15 MHz ~ 700.0 MHz |
| Output Signal | HCSSL |
| Supply Voltage Vdd | +1.8V ±5% +2.5V ±10% +3.3V ±10% |
| Supply Current Idd | 115.0 mA max |
| Frequency Tolerance | ±1.0 ppm at 25°C ±2°C |
| Frequency Stability | <ul style="list-style-type: none"> vs Temperature ±1.0 ppm over -40° to +85°C vs Aging ±1.0 ppm max. per year at 25°C vs Voltage Change ±0.2 ppm max. , for a ±5% input voltage change vs Load Change ±0.2 ppm max. , for a ±10% load condition change vs Reflow ±1.0 ppm max. , 1 reflow and measured 24 hours afterwards |
| Output Voltage HIGH VOH | 0.66 V min. , 1.15 V max |
| Output Voltage LOW VOL | 0.0V min. , 0.15 V max |
| Output Load | 50 Ohm to GND |
| Symmetry | 45 / 55 % |
| Rise / Fall time Fr/Ff | 0.40 ns max. |
| Tri-state function | <ul style="list-style-type: none"> pin #2 : high or open pin #4 : oscillation pin #2 : low pin #4 : high impedance |
| Current with Output Disable | 90 mA typ. |
| Start-up Time | 5 ms typ. |
| Integrated Phase Jitter (12 kHz to 20 MHz) | <ul style="list-style-type: none"> 15 MHz - 50 MHz 500 fsec typ. 51 MHz - 250 MHz 300 fsec typ. 251 MHz - 700 MHz 250 fsec typ. |
| Control Voltage Function | <ul style="list-style-type: none"> Control voltage range +0.9V +0.6V for Vdd 1.8V +1.5V ±1.0V for Vdd 2.5V and 3.3V Frequency pulling range ±8 ppm min. Linearity ±1.0 % typical , ±10 % max Positive Slope polarity 5 MΩ typ. Input impedance 10 kHz typ. (at -3 dB) 1000pcs / reel Modulation bandwidth 260°C , 10 sec x2 max |
| Packing Unit | |
| Soldering Condition | |

OPTIONS & ORDERING INFORMATION

| SX3HVTJ | | | | | MHz | |
|---------|--|-------------------|----------------------------------|---------------------------|----------------------|--|
| | Supply voltage | Operating Temp. * | Temperature Stability * | Tri-state Function | Pulling * | Frequency in MHz |
| | 18 = +1.8V 25 = +2.5V 33 = +3.3V | K = 40° / +85°C | 1.0 = ±1.0 ppm 1.5 = ±1.5 ppm | E2 = Tri-state , pin 2 | 08 = ± 8 ppm min. | Please specify the frequency in MHz |

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

OUTLINE DIMENSIONS (MM)



Pin Connections

- #1 : Control Voltage
- #2 : E/D
- #3 : GND
- #4 : Output
- #5 : Complementary Output
- #6 : Vdd