

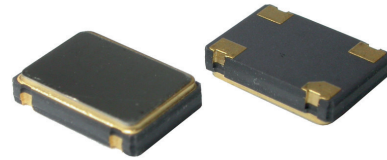
SX3CVT

HCMOS SURFACE MOUNT VCTCXO

FEATURES

- Ultra-miniature package
- High shock and vibrational resistivity
- Low current consumption
- Applications: Portable electronics, GPS, ...

3.2 x 2.5 x 1.0 mm



| Item | Specification | | | | | | |
|---|--|-----------------------|-------------------|---|-----------------|-----------------|-----------------|
| Frequency Range | 8.192 MHz ~ 40.0 MHz | | | | | | |
| Output Signal | CMOS | | | | | | |
| Supply Voltage Vdd (see options) | +1.8V ±5% | +2.5V ±5% | +2.8V ±5% | +3.0V ±5% | +3.3V ±5% | | |
| Supply Current Idd | 6 mA max | | | | | | |
| Frequency Tolerance | ±1.0 ppm at 25°C ±2°C | | | | | | |
| Frequency Stability vs Temperature (see options) | | ±0.5 ppm | ±1.0 ppm | ±1.5 ppm | ±2.0 ppm | ±2.5 ppm | ±3.0 ppm |
| | 0° to +50°C | ○ | ○ | ○ | ○ | ○ | ○ |
| | -10° to +60°C | ○ | ○ | ○ | ○ | ○ | ○ |
| | -20° to +70°C | X | ○ | ○ | ○ | ○ | ○ |
| | -30° to +75°C | X | ○ | ○ | ○ | ○ | ○ |
| | -40° to +85°C | X | ◇ | ○ | ○ | ○ | ○ |
| | O = available | ◇ = please contact us | X = not available | | | | |
| Frequency Stability vs Aging | ±1.0 ppm max. per year at 25°C | | | | | | |
| Frequency Stability vs Voltage Change | ±0.3 ppm max. , for a ±5% input voltage change | | | | | | |
| Frequency Stability vs Load Change | ±0.3 ppm max. , for a ±10% load condition change | | | | | | |
| Output Level | VOH ≥ 0.9 Vdd | | | VOL ≤ 0.1 Vdd | | | |
| Output Load | 15 pF | | | | | | |
| Symmetry | 45 / 55 % | | | | | | |
| Rise / Fall time Fr/Ff | 5 ns max. | | | | | | |
| Start-up Time | 5 ms typ. , 10 ms max. | | | | | | |
| RMS Jitter (12 kHz to 20 MHz band) | 1 ps max. | | | | | | |
| Phase noise | -145 dBc/Hz typ. at 10 kHz offset | | | | | | |
| Voltage Control Function | Control voltage range | | | Center voltage +1.5V ±1.0V for all input voltages | | | |
| | Frequency pulling range | | | ±5 ppm min. | | | |
| | Linearity | | | 10 % max | | | |
| | Slope polarity | | | Positive | | | |
| Packing Unit | 3000pcs / reel | | | | | | |
| Soldering Condition | 260°C , 10 sec x2 max | | | | | | |

Customer specifications on request

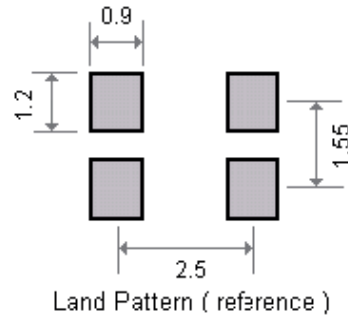
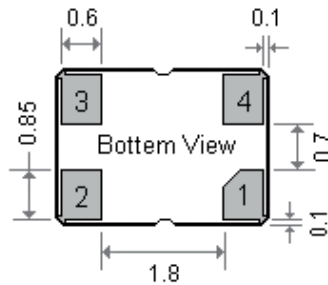
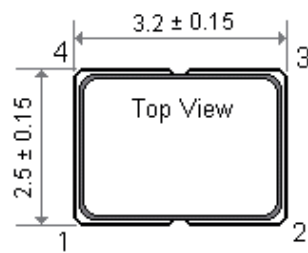
OPTIONS & ORDERING INFORMATION

| SX3CVT | | | | | | | MHz |
|--------|------------------|-------------------|-------------------------|--------------------|--------------------|------------------|-------------------------------------|
| | Supply Voltage * | Operating Temp. * | Temperature Stability * | Tri-state Function | Package type | Pulling ** | Frequency in MHz |
| | 18 = +1.8V | C = 0° / +50°C | 0.5 = ±0.5 ppm | F = No Tri-state | 4P = 4-pad version | 05 = ±5 ppm min. | Please specify the frequency in MHz |
| | 25 = +2.5V | D = -10° / +60°C | 1.0 = ±1.0 ppm | | | | |
| | 28 = +2.8V | F = -20° / +70°C | 1.5 = ±1.5 ppm | | | | |
| | 30 = +3.0V | G = -30° / +75°C | 2.0 = ±2.0 ppm | | | | |
| | 33 = +3.3V | H = -30° / +85°C | 2.5 = ±2.5 ppm | | | | |
| | | K = -40° / +85°C | 3.0 = ±3.0 ppm | | | | |

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

** Other pulling range is available on customer specification

OUTLINE DIMENSIONS (MM)



Pin Connections

#1 : Control Voltage

#2 : GND

#3: Output

#4 :Vdd