

SX3ST

CLIPPED SINE WAVE SURFACE MOUNT TCXO

FEATURES

- Miniature package
- Tight stability
- External DC-Cut capacitor required
- Applications: GPS, Mobile phone, WLAN, ...

3.2 x 2.5 x 1.4 mm



| Item | Specification | | | | | | |
|--|--|---------------|-----------------------|---------------|-------------------|----------|----------|
| Frequency Range | 8.192 MHz to 52.0 MHz | | | | | | |
| Output Logic | Clipped Sine Wave | | | | | | |
| Supply Voltage V _{dd} (see options) | +1.8 V ±5% | +2.8 V ±5% | +3.0 V ±5% | +3.3 V ±5% | +5.0 V ±5% | | |
| Supply Current I _{dd} | ≤ 15 MHz | 1.5 mA max. | | | | | |
| | 15 - 26 MHz | 2.0 mA max. | | | | | |
| | > 26 MHz | 2.5 mA max. | | | | | |
| Frequency Tolerance | ±1.0 ppm max. at 25°C ±2°C (one hour after reflow) | | | | | | |
| Frequency Stability vs Temperature (see options) | | ±0.5 ppm | ±1.0 ppm | ±1.5 ppm | ±2.0 ppm | ±2.5 ppm | ±3.0 ppm |
| | -10° to +60°C | o | o | o | o | o | o |
| | -20° to +70°C | o | o | o | o | o | o |
| | -30° to +75°C | o | o | o | o | o | o |
| | -30° to +85°C | o | o | o | o | o | o |
| | -40° to +85°C | ∅ | o | o | o | o | o |
| | 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 | ±0.2 ppm max., for a ±5% input voltage change | | | | | | |
| Frequency Stability vs Load Change | ±0.2 ppm max., for a ±10% load condition change | | | | | | |
| Output Level | ≥0.8 V p-p | | | | | | |
| Output Load | 10 kΩ // 10 pF | | | | | | |
| Phase Noise | Offset / dBc / Hz | 100 Hz | 1 kHz | 10 kHz | | | |
| | (typical) | | | | | | |
| | 13.0 MHz | -115 dBc / Hz | -135 dBc / Hz | -148 dBc / Hz | | | |
| Start-up Time | 3 ms max. | | | | | | |
| Packing Unit | 2000 pcs / reel | | | | | | |
| Soldering Condition | 260°C, 10 sec x2 max | | | | | | |
| | Customer specifications on request | | | | | | |

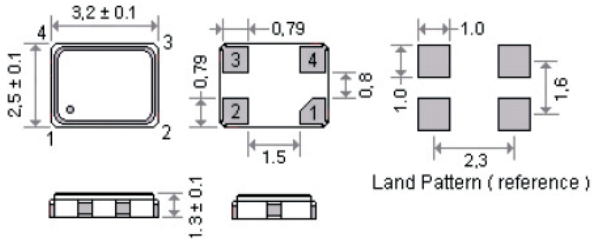
OPTIONS & ORDERING INFORMATION

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| | | - - | | | MHz |
|------------------|-------------------|-------------------------|--------------------|--------------------|-------------------------------------|
| Supply Voltage * | Operating Temp. * | Temperature Stability * | Tri-state Function | Package type | Frequency in MHz |
| 18 = +1.8V | D = -10° / +60°C | 0.5 = ±0.5 ppm | F = No Tri-state | 4P = 4-pad version | Please specify the frequency in MHz |
| 28 = +2.8V | F = -20° / +70°C | 1.0 = ±1.0 ppm | | | |
| 30 = +3.0V | G = -30° / +75°C | 1.5 = ±1.5 ppm | | | |
| 33 = +3.3V | H = -30° / +85°C | 2.0 = ±2.0 ppm | | | |
| 50 = +5.0V | K = -40° / +85°C | 2.5 = ±2.5 ppm | | | |
| | | 3.0 = ±3.0 ppm | | | |

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

OUTLINE DIMENSIONS



Pin Connections

#1 : GND

#2 : GND

#3: Output

#4 : Vdd