

A18ST

CLIPPED SINE WAVE THRU-HOLE TCXO

FEATURES

- Thru-hole package
- Wide frequency range
- Adjustable Frequency
- Applications: Base Stations, Test equipment,...

18.3 x 11.7 x 4.5 mm



| Item | Specification | | | | | | |
|---|--|---------------|-----------------------|---------------|-------------------|---------------|----------|
| Frequency Range | 1.0 MHz to 125.0 MHz | | | | | | |
| Output Logic | Clipped Sine Wave | | | | | | |
| Supply Voltage V _{dd} (see options) | +3.3 V ±5% | | +5.0 V ±5% | | | | |
| Supply Current I _{dd} | 10 mA max | | 15 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 |
| | 0° to +50°C | o | o | o | o | o | o |
| | -10° to +60°C | ◇ | o | o | o | o | o |
| | -20° to +70°C | x | o | o | o | o | o |
| | -30° to +75°C | x | ◇ | o | o | o | o |
| | -30° to +85°C | x | ◇ | ◇ | o | o | o |
| | -40° to +85°C | x | ◇ | ◇ | 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 | | | | | | |
| Start-up Time | 3 ms max. | | | | | | |
| Phase noise | Offset / dBc / Hz | 10 Hz | 100 Hz | 1 kHz | 10 kHz | 100 kHz | |
| | (typical) | | | | | | |
| | 10.000 MHz | -95 dBc / Hz | -130 dBc / Hz | -140 dBc / Hz | -145 dBc / Hz | -150 dBc / Hz | |
| 38.880 MHz | -85 dBc / Hz | -110 dBc / Hz | -140 dBc / Hz | -150 dBc / Hz | -150 dBc / Hz | | |
| Mechanical Frequency Tuning (see options) | ±3.0 ppm min. tuning | | | | | | |
| Packing Unit | 100 pcs / box | | | | | | |
| | Customer specifications on request | | | | | | |

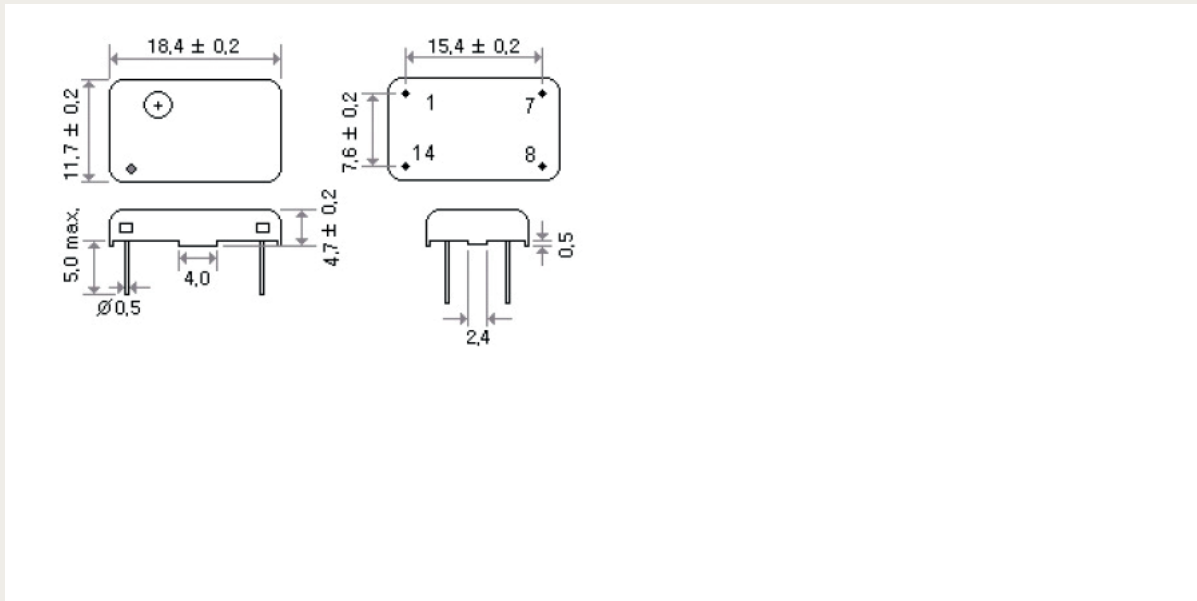
OPTIONS & ORDERING INFORMATION

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| Supply Voltage | Operating Temp. * | Temperature Stability * | Tri-state Function | Package type | Frequency in MHz | Mechanical Tuning |
|----------------|-------------------|-------------------------|--------------------|--------------------|-------------------------------------|---------------------|
| 33 = +3.3V | C = 0° / +50°C | 0.5 = ±0.5 ppm | F = No Tri-state | 4P = 4-pad version | MHz | |
| 50 = +5.0V | D = -10° / +60°C | 1.0 = ±1.0 ppm | | | Please specify the frequency in MHz | -T = Trimmer option |
| | F = -20° / +70°C | 1.5 = ±1.5 ppm | | | | |
| | G = -30° / +75°C | 2.0 = ±2.0 ppm | | | | |
| | 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.

OUTLINE DIMENSIONS



Pin Connections

#1 : NC

#7 : GND

#8: Output

#14 : Vdd