EUROQUARTZ

STATER HIGH TEMPERATURE OSCILLATORS

High Temperature/High Shock SMD Crystal Oscillator

FEATURES

- High temperature operation up to 200°C
- **Excellent temperature stability**
- Fast start-up
- **High shock resistance**
- Low EMI emission
- Hermetically sealed package

DESCRIPTION

For applications with high operating temperatures oscillators types CXOHT, CXOMKHT and CXOXHT will operate at temperatures as high as 200°C with a stability of 200ppm at this temperature. Designed and manufactured in USA by Statek Inc.

SPECIFICATION

Specifications are typical at 25°C unless otherwise indicated. Tighter specifications are available, contact Euroquartz technical sales.

| Supply Voltage: | | +3.3 ±10% or +5.0 Volts ±10% | |
|--------------------------|---------------|------------------------------|--------------------|
| Calibration Tolerance: | | ±50ppm or tighter as reqd. | |
| Frequency Stabi | lity | | |
| | 25° ~ +150°C: | ±100ppm | |
| | 25° ~ +175°C: | ±150ppm | |
| | 25° ∼ +200°C: | ±200ppm | |
| Supply Current (Typical) | | +3.3V | +5.0V |
| | 24MHz: | 3.0mA | 8.0mA |
| | 32MHz: | 5.0mA | 10.0mA |
| | 50MHz: | 6.0mA | 14.0mA |
| Output Load: | | 15pF | |
| Start-up Time: | | 5ms maximum | |
| Rise and Fall Time: | | 10ns maximum | |
| Duty Cycle: | | 60/40% | |
| Shock Survival | | | |
| | Std: | Up to 3,000 |)g, 0.3ms, ½ sine |
| | HG: | Up to 10,00 | 00g, 0.3ms, ½ sine |
| Vibration Survival: | | 20g, 10~2000Hz swept sine | |
| Operating Temp. Range: | | -55°C to 200°C | |
| | | | |

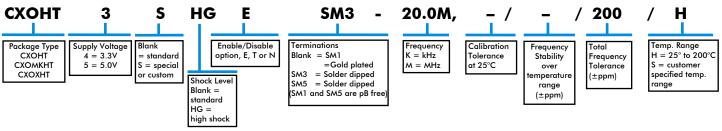
COMPARISON OF ENABLE/DISABLE OPTIONS

| | Option 'E' | Option 'T' |
|---------------------------------------------|----------------|-------------------|
| When enabled (PIN 1 is high'*) | | |
| Output | Freq. Output | Freq. Output |
| Oscillator | Oscillates | Oscillates |
| Current Consumption: | Normal | Normal |
| When disabled (PIN 1 'low') | | |
| Output | High 'Z' state | High 'Z' state |
| Oscillator | Stops | Oscillates |
| Current Consumption: | Very low | Lower than normal |
| When re-enabled (PIN 1 from low to high) | | |
| Output recovery | Delayed | Immediate |

* When Pin 1 is allowed to float it is held 'high' by an internal pull-up resistor.

Option 'N' = Pin 1 not connected internally.

HOW TO ORDER HIGH TEMPERATURE OSCILLATORS



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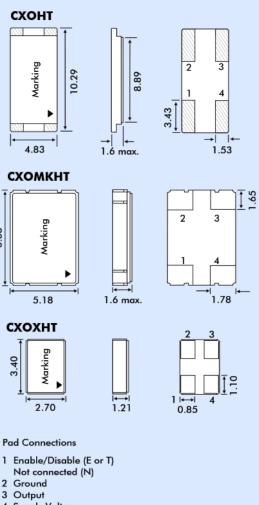


CXOXHT

320kHz ~ 50MHz

200kHz ~ 50MHz $1MHz \sim 50MHz$

OUTLINE & DIMENSIONS



4 Supply Voltage

6.68

PACKAGING OPTIONS

High temperature oscillators are available either tray packed (<250pcs) or tape and reel (>250 pieces). 16mm tape, 178mm or 330mm reels (EIA 418).