

GTXO-S14T

3.3 & 5V Stratum 3 Sinewave TCXO

- Ideally suited for Telecomms applications
- 3.3V or 5.0V supply voltage
- Sinewave output
- Stratum 3 compliant models available
- ± 4.6 ppm stability over 20 years



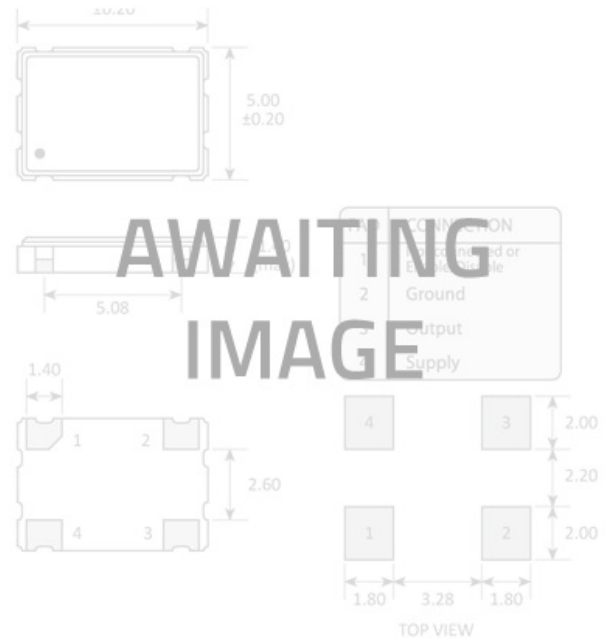
CONFIGURABLE OPTIONS

| Parameter | Option Code |
|--------------------------------|-------------|
| Frequency | |
| Temperature stability | |
| Any | |
| ± 0.28 ppm (up to 50.0MHz) | D |
| ± 0.5 ppm (up to 100MHz) | E |
| ± 1.0 ppm (up to 100MHz) | F |
| Supply voltage (V_{DD}) | |
| Any | |
| +3.3V ($\pm 5\%$) | L |
| +5.0V ($\pm 5\%$) | P |
| Temperature range | |
| Any | |
| -20 to +70 °C | |
| -40 to +85 °C | I |

SPECIFICATIONS

| | |
|--|--|
| Frequency range | 6.40 ~ 52.0MHz |
| Dimensions | 20.8 x 13.1 x 7.9mm |
| Frequency calibration | ±1.0ppm (@ +25 °C) |
| Frequency stability (inclusive of calibration, temperature, voltage, load, 20years, ageing, shock & vibration) | ±4.6ppm |
| Holdover stability (option D only) | ±0.32ppm max over 24hrs |
| Temperature hysteresis | ±0.4ppm max |
| Storage temperature range | -55 to +125 °C |
| Frequency vs supply voltage | ±50ppb, $V_{DD} \pm 5\%$ |
| Frequency vs load change | ±50ppb, $Z_L \pm 5\%$ |
| Ageing | ±3.0ppm max 20 years |
| Short term ageing (option D only) | ±40ppb per day, $\pm 4.63 \times 10^{-13}$ per sec |
| Supply current | 6.0mA typ, 10.0mA max |
| Output waveform | Sinewave, 1dBm into 50Ω |
| Harmonics | -30dBc max |
| Spurious | -80dBc max |
| Start up time | 1.0ms max |
| Phase noise (typ @ 19.44MHz) | -90dBc/Hz @ 10Hz -120dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz -152dBc/Hz @ 100kHz |
| Period jitter RMS | 3ps typ, 5ps max |
| Phase jitter RMS | 0.5ps typ, 1.0ps max, 12kHz~ $f_o/2$ |

PACKAGE DRAWING



ORDERING INFORMATION

To request a quotation for the GT XO-S14T please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

CONSTRUCTION

Hermetically sealed DIL-14 package

HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to < 500V)



Moisture Sensitivity Level (MSL): 1

COMPLIANCE



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions.