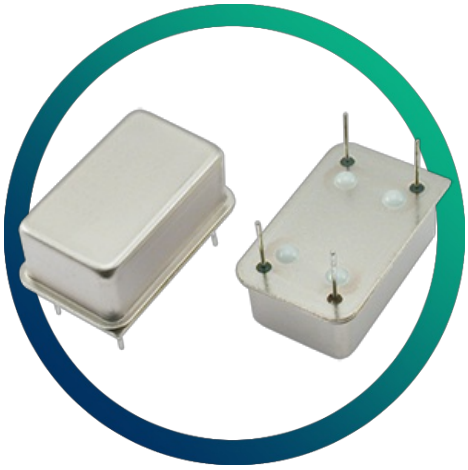
GTXO-14V

3.3 & 5V Stratum 3 VCTCXO with Clipped Sine Output



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

CONFIGURABLE OPTIONS

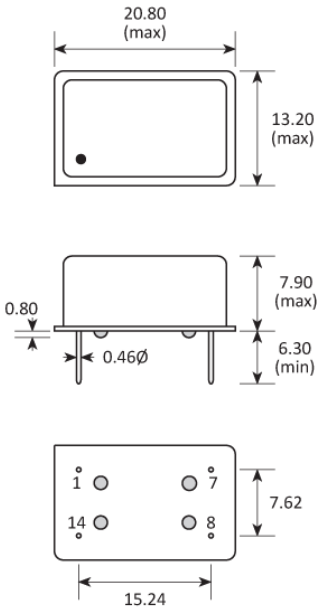
Parameter	Option Code
Frequency	
Temperature stability	
Any	
±0.28ppm (up to 50.0MHz)	D
±0.5ppm (up to 100MHz)	E
±1.0ppm (up to 100MHz)	F
Supply voltage (V_{DD})	
Any	
+3.3V (±5%)	L
+5.0V (±5%)	P
Temperature range	
Any	
-20 to +70°C	
-40 to +85°C	I

SPECIFICATIONS

Frequency range	6.40 ~ 100MHz
Dimensions	20.8 x 13.2 x 7.9mm
Frequency calibration	±1.0ppm (@ +25°C)
Frequency stability * see note below	±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} ±5%
Frequency vs load change	±50ppb, Z_L ±5%
Ageing	±3.0ppm max 20 years
Short term ageing (option D only)	±40ppb per day, ±4.63x10^{-13} per sec
Supply current	1.3mA typ, 2.9mA max (≤52.0MHz) 12.0mA max (>52.0MHz)
Output waveform	Clipped sine, 1.0V p-p (≤40MHz) Clipped sine, 0.8V p-p (>40MHz)
Test load (Z_L)	10kΩ // 10pF
Start up time	1.0ms max
Frequency adjustment	±10ppm min 50%V_{DD} ±40%V_{DD} ±5% linearity, positive slope
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

* **Stability is inclusive of calibration, temperature, voltage, load, 20 years ageing, shock & vibration**

PACKAGE DRAWING



PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the GTXO-14V 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.

HANDLING & STORAGE


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


Moisture Sensitivity Level (MSL): 1 (or not applicable)

CONSTRUCTION

Hermetically sealed DIL-14 package

MATERIAL COMPOSITION


Lead-free (< 0.1% by weight)


RoHS 2 compliant with no exemptions. See our declaration


REACH compliant. See our statement


Free of conflict minerals. See our declaration


Free of Halogens. See our declaration


Free of Ozone-depleting substances. See our declaration

OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

Come and visit

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).
To take advantage of our highly praised service get in touch with us today.