

# **GTXO-14V**

# 3.3 & 5V Stratum 3 Clipped Sine

# **TCXO**

- Ideally suited for Telecomms 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 <sub>DD</sub> )	
Any	
+3.3V (±5%)	L
+5.0V (±5%)	Р
Temperature range	
Any	
-20 to +70°C	
-40 to +85°C	I

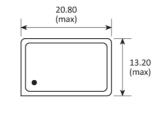


# **SPECIFICATIONS**

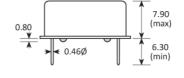
SPECIFICATION	
Frequency range	6.40 ~ 100MHz
Dimensions	20.8 x 13.1 x 7.9mm
Frequency	±1.0ppm (@ +25°C)
calibration	
Frequency	±4.6ppm
stability	
* see note below	
Holdover stability	±0.32ppm max over 24hrs
(option D only)	
Temperature	±0.4ppm max
hysteresis	
Storage	-55 to +125°C
temperature range	
Frequency vs	±50ppb, V <sub>DD</sub> ±5%
supply voltage	
Frequency vs load	±50ppb, Z <sub>L</sub> ±5%
change	
Ageing	±3.0ppm max 20 years
Short term ageing	±40ppb per day, ±4.63x10 <sup>-13</sup> per sec
(option D only)	
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 <sub>L</sub> )	10kΩ // 10pF
Start up time	1.0ms max
Frequency	±10ppm min 50%V <sub>DD</sub> ±40%V <sub>DD</sub>
adjustment	±5% linearity, positive slope
Phase noise (typ	-90dBc/Hz @ 10Hz
@ 19.44MHz)	-120dBc/Hz @ 100Hz
	-140dBc/Hz @ 1kHz
	-150dBc/Hz @ 10kHz
Dariad litter DMC	-152dBc/Hz @ 100kHz
Period jitter RMS	3ps typ, 5ps max
Phase jitter RMS	0.5ps typ, 1.0ps max, 12kHz~f <sub>o</sub> /2

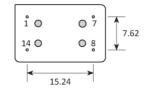
<sup>\*</sup> Stability is inclusive of calibration, temperature, voltage, load, 20 years ageing, shock & vibration

# **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 <a href="mailto:sales@golledge.com">sales@golledge.com</a>.

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

### **CONSTRUCTION**

Hermetically sealed DIL-14 package

#### **COMPLIANCE**



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions.