

# GTXO-C14T

## 3.3 & 5V Stratum 3 CMOS TCXO

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



### CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Temperature stability	
Any	
$\pm 0.28$ ppm (up to 50.0MHz)	D
$\pm 0.5$ ppm (up to 100MHz)	E
$\pm 1.0$ 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	1.0 ~ 100MHz
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	2.1mA typ, 6.0mA max ( $\leq 52.0\text{MHz}$ ) 12.0mA max ( $> 52.0\text{MHz}$ )
Driving ability	15pF CMOS
Logic levels	'1' level = 90% $V_{DD}$ min '0' level = 10% $V_{DD}$ 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~ $f_o/2$

## ORDERING INFORMATION

To request a quotation for the GTXXO-C14T 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](mailto: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.

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**HANDLING & STORAGE**

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



Moisture Sensitivity Level (MSL): 1

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**CONSTRUCTION**

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Hermetically sealed DIL-14 package

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**COMPLIANCE**

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Lead-free (< 0.1% by weight )



RoHS compliant with no exemptions.