



PIN	CONNECTION
1	Enable / disable or Freq adjustment
7	Ground
8	Output
14	Supply

## Features

- 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
- Analogue compensation - no steps

## Ordering Information

Product name + variant + option codes + frequency  
 Option codes must be included to properly specify a model.  
 eg: **GTXO-14V/DP 13.00MHz** ±0.28ppm, 5.0V, -20+70°C, TCXO with VC  
**GTXO-14T/ELI 14.40MHz** ±0.5ppm, 3.3V, -40+85°C, TCXO no VC  
 Option code X (eg GTXO-14V/X) denotes a custom spec.

## Specifications

**GTXO-14T:** TCXO, no frequency adjustment

**GTXO-14V:** TCXO with VC frequency adjustment

Parameters	Variant		Option Codes
	T	V	
<b>Frequency range:</b> 6.40 ~ 100MHz	■	■	
<b>Frequency calibration:</b> ±1.0ppm (@ +25°C)	■	■	
<b>Frequency stability:</b> ±4.6ppm (inclusive of calibration, temperature, voltage, load, 20years ageing, shock & vibration)	■	■	
<b>Temperature stability:</b> ±0.28ppm (up to 50.0MHz) ±0.5ppm (up to 100MHz) ±1.0ppm (up to 100MHz)	□	□	D E F
<b>Holdover stability (option D only):</b> ±0.32ppm max over 24hrs	■	■	
<b>Supply voltage (V<sub>DD</sub>):</b> +3.3V (±5%) +5.0V (±5%)	■ □	■ □	L P
<b>Temperature range:</b> -20 to +70°C -40 to +85°C	■ □	■ □	I
<b>Temperature hysteresis:</b> ±0.4ppm max	■	■	
<b>Storage temperature range:</b> -55 to +125°C	■	■	
<b>Frequency vs supply voltage:</b> ±50ppb, V <sub>DD</sub> ±5%	■	■	
<b>Frequency vs load change:</b> ±50ppb, Z <sub>L</sub> ±5%	■	■	
<b>Ageing:</b> ±3.0ppm max 20 years	■	■	
<b>Short term ageing (option D only):</b> ±40ppb per day, ±4.63x10 <sup>-13</sup> per sec	■	■	
<b>Supply current:</b> 1.3mA typ, 2.9mA max (≤52.0MHz) 12.0mA max (>52.0MHz)	■ ■	■ ■	
<b>Output waveform:</b> Clipped sine, 1.0V p-p (≤40MHz) Clipped sine, 0.8V p-p (>40MHz)	■ ■	■ ■	
<b>Test load (Z<sub>L</sub>):</b> 10kΩ // 10pF	■	■	
<b>Start up time:</b> 1.0ms max	■	■	
<b>Frequency adjustment:</b> None ±10ppm min 50%V <sub>DD</sub> ±40%V <sub>DD</sub> ±5% linearity, positive slope	■	■	
<b>Phase noise (typ @ 19.44MHz):</b> -90dBc/Hz @ 10Hz -120dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz -152dBc/Hz @ 100kHz	■ ■ ■ ■ ■	■ ■ ■ ■ ■	
<b>Period jitter RMS:</b> 3ps typ, 5ps max	■	■	
<b>Phase jitter RMS:</b> 0.5ps typ, 1.0ps max, 12kHz~f <sub>o</sub> /2	■	■	

■ Standard. □ Optional - Please specify required code(s) when ordering