



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	
Frequency range: 6.40 ~ 100MHz	■	■	
Frequency calibration: ±1.0ppm (@ +25°C)	■	■	
Frequency stability: ±4.6ppm (inclusive of calibration, temperature, voltage, load, 20years ageing, shock & vibration)	■	■	
Temperature stability: ±0.28ppm (up to 50.0MHz) ±0.5ppm (up to 100MHz) ±1.0ppm (up to 100MHz)	□	□	D E F
Holdover stability (option D only): ±0.32ppm max over 24hrs	■	■	
Supply voltage (V_{DD}): +3.3V (±5%) +5.0V (±5%)	■ □	■ □	L P
Temperature range: -20 to +70°C -40 to +85°C	■ □	■ □	I
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: None ±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	■	■	

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