



## Features

- ▶ **Supply voltages from 2.7V ~ 5.5V**
- ▶ **Low power consumption**
- ▶ **1.9mm maximum height**
- ▶ **Excellent frequency stability**

## Standard Frequencies

Frequencies in MHz		
10.00000	14.40000	19.44000
12.80000	15.36000	19.68000
13.00000	19.20000	19.80000

## Frequency Stability vs Temperature

The table shows option codes for the available combinations of frequency stability (in ppm) and temperature range.

	±3.0	±2.5	±2.0	±1.5	±1.0
-30 to +75°C	KS	JS	HS	GS*	FS*
-20 to +70°C	KN	JN	HN	GN	FN*
-10 to +60°C	KC	JC	HC	GC	FC
0 to +50°C	KR	JR	HR	GR	FR

\* Limited availability. Please confirm before designing or ordering

## Specifications

**GTXO-71T: TCXO, no frequency adjustment**

**GTXO-71V: TCXO with VC frequency adjustment**

Parameters	Variant		Option Codes
	T	V	
<b>Frequency range:</b> 10.0 ~ 20.0MHz	■	■	
<b>Frequency stability:</b>			
±3.0ppm	□	□	K
±2.5ppm	■	■	J
±2.0ppm	□	□	H
±1.5ppm	□	□	G
±1.0ppm	□	□	F
<b>Temperature range:</b>			
0 to +50°C	□	□	R
-10 to +60°C	□	□	C
-20 to +70°C	□	□	N
-30 to +75°C	■	■	S
<b>Storage temperature range:</b>			
-40 to +85°C	■	■	
<b>Frequency vs supply voltage:</b>			
±0.3ppm	■	■	
<b>Ageing:</b> ±1.0ppm max first year	■	■	
<b>Supply voltage (V<sub>DD</sub>):</b>			
+2.7V ~ +5.5V (see note below)	■	■	
<b>Supply current:</b> 2.0mA max	■	■	
<b>Output waveform:</b>			
Clipped sine, 0.8V p-p	■	■	
<b>Test load:</b> 10kΩ // 10pF	■	■	
<b>Start up time:</b> 3ms max	■	■	
<b>Frequency adjustment:</b>			
None	■		
±4ppm min, +1.5V ±1.0V		■	
<b>Phase noise:</b>			
-50dBc/Hz typ @ 1Hz	■	■	
-80dBc/Hz typ @ 10Hz	■	■	
-125dBc/Hz typ @ 1kHz	■	■	
-140dBc/Hz typ @ 100kHz	■	■	
<b>Stability 24hrs after reflow:</b>			
±1.0ppm max	■	■	
<b>Preset frequency:</b>			
±0.5ppm / +25°C ±2°C	■	■	

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

## Ordering Information

Product name + variant + option codes + frequency  
 Option codes must be included to properly specify a model.  
 eg: **GTXO-71V/JS 13.00MHz** ±2.5ppm -30+75°C TCXO with VC  
**GTXO-71T/HN 14.40MHz** ±2.0ppm -20+70°C TCXO no VC  
 Option code X (eg GTXO-71V/X) denotes a custom spec.

- ◆ Available on T&R -1k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.
- ◆ Will operate within specification on any supply voltage from +2.7V to +5.5V.