



Scale 3:1

Features

- ▶ **Supply voltages from 2.85V ~ 5.0V**
- ▶ **Low power consumption**
- ▶ **2.0mm maximum height**
- ▶ **Excellent frequency stability**

Standard Frequencies

Frequencies in MHz		
10.00000	15.36000	19.68000
12.80000	16.80000	19.80000
13.00000	19.20000	20.00000
14.40000	19.44000	

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
-40 to +85°C	KI	JI	-	-	-
-30 to +80°C	KS	JS	HS	-	-
-20 to +70°C	KN	JN	HN	GN *	-
-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-72T: TCXO, no frequency adjustment
GTXO-72V: TCXO with VC frequency adjustment

Parameters	Variant		Option Codes
	T	V	
Frequency range: 10.0 ~ 20.0MHz	■	■	
Frequency stability:			
±3.0ppm	□	□	K
±2.5ppm	■	■	J
±2.0ppm	□	□	H
±1.5ppm	□	□	G
±1.0ppm	□	□	F
Temperature range:			
0 to +55°C	□	□	R
-10 to +60°C	□	□	C
-20 to +70°C	□	□	N
-30 to +80°C	■	■	S
-40 to +85°C	□	□	I
Storage temperature range:			
-55 to +125°C	■	■	
Frequency vs supply voltage:			
±0.3ppm (V _{DD} ±5%)	■	■	
Ageing: ±1.0ppm max first year	■	■	
Supply voltage (V_{DD}):			
+2.85V (±5%)	□	□	K
+3.0V (±5%)	■	■	L
+3.3V (±5%)	□	□	M
+5.0V (±5%)	□	□	P
Supply current:			
1.5mA max (10.0 ~ 14.9MHz)	■	■	
2.0mA max (15.0 ~ 20.0MHz)	■	■	
Output waveform:			
Clipped sine, 0.8V p-p	■	■	
Test load: 10kΩ // 10pF	■	■	
Start up time: 2ms max	■	■	
Frequency adjustment: None	■		
±5ppm ~ ±10ppm, +1.5 ±1V		■	
Phase noise:			
-110dBc/Hz typ @ 100Hz	■	■	
-125dBc/Hz typ @ 1kHz	■	■	
-130dBc/Hz typ @ 100kHz	■	■	
Preset frequency:			
±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-72V/JSL 19.20MHz** ±2.5ppm -30+75°C, 3.0V, TCXO with VC
GTXO-72T/HNK 14.40MHz ±2.0ppm -20+70°C, 2.85V, TCXO no VC
 Option code X (eg GTXO-72V/X) denotes a custom spec.

- ◆ Available on T&R - 1k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.