



## Specifications

**GHTXOL: 3.3V supply**

**GHTXOS: 5.0V supply**

Parameters	Variant		Option Codes
	L	S	
Frequency range: 32.768kHz 1.5 ~ 30.0MHz 1.5 ~ 50.0MHz	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	
Overall stability: (see note 1) ±500ppm over +25 to +250°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Temperature range: -55 to +250°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Storage temperature range: -55 to +125°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Supply voltage (V <sub>DD</sub> ): +3.3V (±5%) +5.0V (±10%)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Driving ability: 15pF CMOS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Logic levels: '0' level = 10%V <sub>DD</sub> max '1' level = 90%V <sub>DD</sub> min	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Waveform symmetry: 40:60 @ 50%V <sub>DD</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Startup time: 5ms max	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Rise / fall time: 10ns max	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Shock survival (@ 25°C): 30,000g, 0.5ms, ½ sine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Vibration survival: 20g, 10.0 ~ 2,000Hz, swept sine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Enable / disable function: None Tristate (control via pad 1)	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	 E

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

## Features

- ▶ High temperature operation up to 250°C
- ▶ High shock and vibration
- ▶ CMOS output
- ▶ Miniature SM package
- ▶ Excellent frequency stability

## Example Applications

- ▶ Oil and gas downhole instrumentation
- ▶ Rotary shaft sensors
- ▶ Underground boring tools
- ▶ Avionics

## Enable / Disable Function

Input (pad 1)	Output (pad 3)
'0' level	Enabled
'1' level	High Impedance

## Ordering Information

Product name + variant + option codes + frequency

eg: **GHTXOL 24.00MHz** 3.3V supply, no E/D

**GHTXOS/E 20.0MHz** 5.0V supply, E/D function

Option code X (eg GHTXOL/X) denotes a custom spec.

- ♦ 1: Relative to nominal frequency
- ♦ 2: Expected life at 250°C is 1000 hours minimum
- ♦ 3: A bypass capacitor 0.1µF should be connected as close as possible to supply and ground pads