



Scale 2:1

## Features

- ▶ Fundamental mode crystal up to 75MHz
- ▶ HCMOS compatible output
- ▶ Low jitter and fast rise / fall
- ▶ 3.3V or 5V supply
- ▶ Enable / disable tristate function
- ▶ Ceramic / metal SM package

## Enable / Disable Function

Input (pad 2)	Output (pad 4)
Open '1' level $V_{IH}$ '0' level $V_{IL}$	Active Active High Impedance

## Specifications

**GVXO-27L: +3.3V supply**

**GVXO-27S: +5.0V supply**

Parameters	Variant		Option Codes
	L	S	
<b>Frequency range:</b> 1.0 ~ 75.0MHz	■	■	
<b>Voltage control (<math>V_{CTL}</math>):</b> +1.65V $\pm$ 1.5V, 10% linearity +2.5V $\pm$ 2.0V, 10% linearity	■	■	
<b>Frequency pullability (min):</b> $\pm$ 50ppm $\pm$ 80ppm $\pm$ 100ppm	<input type="checkbox"/> ■ <input type="checkbox"/>	<input type="checkbox"/> ■ <input type="checkbox"/>	N P S
<b>Frequency stability*:</b> $\pm$ 50ppm $\pm$ 30ppm	<input type="checkbox"/> ■	<input type="checkbox"/> ■	B C
<b>Operating temperature range:</b> -10 to +70°C -40 to +85°C	■ <input type="checkbox"/>	■ <input type="checkbox"/>	I
<b>Storage temperature range:</b> -40 to +85°C	■	■	
<b>Supply voltage (<math>V_{DD}</math>):</b> +3.3V ( $\pm$ 5%) +5.0 ( $\pm$ 5%)	■	■	
<b>Supply current (mA max):</b> 1.0 ~ 30.0MHz 30.0 ~ 45.0MHz 45.0 ~ 75.0MHz	20 30 50	25 35 60	
<b>Driving ability:</b> 15pF HCMOS	■	■	
<b>Logic levels:</b> '0' level = 10% $V_{DD}$ max '1' level = 90% $V_{DD}$ min	■	■	
<b>Waveform symmetry:</b> 40:60 max @ 50% $V_{DD}$	■	■	
<b>Start up time:</b> 10ms max	■	■	
<b>Rise / fall time:</b> 5ns max (20% ~ 80% $V_{DD}$ )	■	■	
<b>Jitter:</b> 4.26ps (RMS) @ 32.768MHz 5.39ps (RMS) @ 70.656MHz	■	■	
<b>Enable / disable function:</b> Control via pad 2	■	■	
<b>Enable / disable time (ms max):</b>	150	100	
<b>Soldering condition:</b> Reflow, 260°C x 10sec x2 max	■	■	

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

\* Frequency stability is inclusive of calibration @ 25°C, operating temperature range, supply voltage change, load change and ageing, with  $V_{CTL} = 50\% V_{DD}$

## Ordering Information

Product name + variant + option codes + frequency  
eg: **GVXO-27L/PB 16.374MHz** 3.3V,  $\pm$ 80ppm pullability, 30ppm stability  
Option code X (eg GVXO-27S/X) denotes a combination of values not listed above.

- ◆ Available on T&R - 1k pcs per reel. Refer to our website for details.
- ◆ Some combinations of stability/pullability are not available over 45MHz