



PAD	CONNECTION
1	Control voltage
2	Enable / disable
3	Ground
4	Output
5	Not connected
6	Supply

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