



Scale 2:1

Features

- ▶ **Fundamental mode crystal up to 75MHz**
- ▶ **HCMOS compatible output**
- ▶ **Low jitter and fast rise / fall**
- ▶ **Ceramic / metal SM package**
- ▶ **Enable / disable tristate option**

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	<input type="checkbox"/> ■ <input type="checkbox"/>	<input type="checkbox"/> ■ <input type="checkbox"/>	N P S
Frequency stability*: \pm 50ppm \pm 30ppm	<input type="checkbox"/> ■	<input type="checkbox"/> ■	B C
Operating temperature range: -10 to +70°C	■	■	
Storage temperature range: -30 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: Tristate (control via pad 2) None (pad 2 NC)	■ <input type="checkbox"/>	■ <input type="checkbox"/>	N
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