



PAD	CONNECTION
1	Control voltage
2	Ground
3	Output
4	Supply

## Features

- ▀▀▀ **Fundamental mode crystal up to 50MHz**
- ▀▀▀ **High frequency CMOS output**
- ▀▀▀ **Low jitter and fast rise / fall times**
- ▀▀▀ **Metal SM package with glass epoxy base**

## Specifications

Parameters	Product	Option Codes
	GVXO-36	
<b>Frequency range:</b> 12.0 ~ 80.0MHz	■	
<b>Voltage control (<math>V_{CTL}</math>):</b> +2.5V $\pm$ 2.0V, 10% linearity	■	
<b>Frequency pullability (min):</b> $\pm$ 50ppm $\pm$ 100ppm Other	<input type="checkbox"/> ■ <input type="checkbox"/>	N S specify
<b>Frequency stability*:</b> $\pm$ 50ppm $\pm$ 25ppm Other	■ <input type="checkbox"/> <input type="checkbox"/>	B C specify
<b>Operating temperature range:</b> -10 to +70°C -40 to +85°C	■ <input type="checkbox"/>	I
<b>Storage temperature range:</b> -40 to +85°C	■	
<b>Supply voltage (<math>V_{DD}</math>):</b> +5.0V ( $\pm$ 5%)	■	
<b>Supply current:</b> 50mA max	■	
<b>Driving ability:</b> 15pF CMOS	■	
<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> 3ns max (20% ~ 80% $V_{DD}$ )	■	
<b>Soldering condition:</b> Reflow, 240°C 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  $V_{CTL} = 2.5V$

## Ordering Information

Product + option codes + frequency

eg: **GVXO-36/SB 19.440MHz**  $\pm$ 100ppm pullability,  $\pm$ 50ppm -10+70°C

**GVXO-36/NCI 77.760MHz**  $\pm$ 50ppm pullability,  $\pm$ 25ppm -40+85°C

Option codes must be included to specify a model completely.

Option code X (eg GVXO-36/X) denotes a custom spec.

- ◆ Available on T&R - 500pcs per reel. Refer to our website for details.
- ◆ Some combinations of stability/pullability are not available