



PAD	CONNECTION
1	Control voltage
2	Ground
3	Ground
4	Output
5	Supply
6	Enable / disable

## Features

- ▶ **3.3V supply**
- ▶ **Fundamental mode crystal up to 52.0MHz**
- ▶ **Choice of pullability & stability**
- ▶ **Enable / disable tristate function**
- ▶ **Miniature SM package**

## Enable / Disable Function

Input (pad 1)	Output (pad 4)
Open	Enabled
'1' level	Enabled
'0' level	High Impedance

## Specifications

Parameters	Product	Option Codes
	GVXO-513	
<b>Frequency range:</b> 2.0 ~ 52.0MHz	■	
<b>Voltage control:</b> +1.65V ±1.5V, 10% linearity	■	
<b>Frequency pullability (min):</b> ±100ppm Other	■ □	S specify
<b>Frequency stability:</b> ±100ppm ±50ppm Other	□ ■ □	A B specify
<b>Operating temperature range:</b> -10 to +70°C -40 to +85°C	■ □	I
<b>Storage temperature range:</b> -55 to +125°C	■	
<b>Supply voltage (V<sub>DD</sub>):</b> +3.3V (±5%)	■	
<b>Supply current:</b> 15mA max (2.0 ~ 30.0MHz) 25mA max (>30.0 ~ 52.0MHz)	■ ■	
<b>Driving ability:</b> 15pF CMOS	■	
<b>Logic levels:</b> '0' level = 10%V <sub>DD</sub> max '1' level = 90%V <sub>DD</sub> min	■ ■	
<b>Waveform symmetry:</b> 40:60 max @ 50%V <sub>DD</sub>	■	
<b>Rise / fall time:</b> 5ns max (20%~80%V <sub>DD</sub> )	■	
<b>Start up time:</b> 10ms max	■	
<b>Enable / disable function:</b> Tristate (control via pad 1)	■	
<b>Enable / disable time:</b> 300ns / 300ns max	■	

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

## Ordering Information

Product + option codes + frequency  
 eg: **GVXO-513/SA 19.440MHz** ±100ppm pullability, ±100ppm stability  
**GVXO-513/SB 34.3680MHz** ±100ppm pullability, ±50ppm stability  
 Option codes must be included to specify a model completely.  
 Option code X (eg GVXO-513/X) denotes a custom spec.

- ◆ Available on T&R - 1k or 2k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.