



## Specifications

**GVXO-37N: Negative supply**

**GVXO-37P: Positive supply**

Parameters	Variant		Option Codes
	N	P	
<b>Frequency range:</b> 12.0 ~ 170MHz	■	■	
<b>Voltage control (<math>V_{CTL}</math>):</b> +2.5V $\pm$ 2.0V, 10% linearity, +ve slope	■	■	
<b>Frequency pullability:</b> $\pm$ 100ppm min Other	■ □	■ □	specify
<b>Frequency stability*:</b> $\pm$ 50ppm max Other	■ □	■ □	specify
<b>Operating temperature range:</b> -10 to +70°C	■	■	
<b>Storage temperature range:</b> -40 to +85°C	■	■	
<b>Supply voltage:</b> -5.2V ( $\pm$ 5%) +5.0V ( $\pm$ 5%)	■	■	
<b>Supply current:</b> 80mA max	■	■	
<b>Output:</b> Complementary ECL Complementary PECL	■	■	
<b>Test load:</b> $R_{TT}$ ( $\Omega$ ) $V_{TT}$ (V)	50 -2.0	50 +3.0	
<b>Logic levels:</b> '0' level (V max) '1' level (V min)	-1.60 -1.02	+3.4 +3.9	
<b>Waveform symmetry:</b> 40:60 max @ 50% $V_{P-P}$	■	■	
<b>Start up time:</b> 10ms max	■	■	
<b>Rise / fall time:</b> 0.5ns max (20% ~ 80% $V_{P-P}$ )	■	■	
<b>Enable / disable function:</b> Control via pad 6	■	■	
<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  $V_{CTL} = 2.5V$

## Features

- ▶ Fundamental mode crystal up to 50MHz
- ▶ Complementary ECL or PECL outputs
- ▶ Fast rise / fall times
- ▶ Enable / disable tristate function
- ▶ Metal SM package with glass epoxy base

## Enable / Disable Function

Input (pad 6) *	Output 1 (pad 8)	Output 2 (pad 9)
Open	Active	Active
'1' level $V_{IH}$	High ('1')	Low ('0')
'0' level $V_{IL}$	Active	Active

\* Note: GVXO-37N: '0' level =  $V_{IL} \leq -1.60V$ , '1' level =  $V_{IH} \geq -1.02V$   
GVXO-37P: '0' level =  $V_{IL} \leq +3.40V$ , '1' level =  $V_{IH} \geq +3.9V$

## Ordering Information

Product name + variant + frequency

eg: **GVXO-37N 77.76MHz** -5.2V supply

Option code X (eg GVXO-37P/X) denotes a combination of values not listed above.

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