



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 = $V_{IH} \geq +3.9V$

Specifications

GVXO-37N: Negative supply

GVXO-37P: Positive supply

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