



Features

- ▶ Fundamental mode crystal @ 150~160MHz x 4
- ▶ Complementary ECL or PECL output
- ▶ 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-38N: '0' level = $V_{IL} \leq -1.60V$, '1' level = $V_{IH} \geq -1.02V$
 GVXO-38P: '0' level = $V_{IL} \leq +3.40V$, '1' level = $V_{IH} \geq +3.9V$

Specifications

GVXO-38N: Negative supply

GVXO-38P: Positive supply

Parameters	Variant		Option Codes
	N	P	
Frequency range:			
622.08MHz	■	■	
666.51428MHz	■	■	
669.32658MHz	■	■	
Other (600 ~ 700MHz)	□	□	specify
Voltage control (V_{CTL}):			
-2.5V \pm 2.0V, 10% linearity, -ve slope	■		
+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:			
120mA max	■	■	
Output:			
Complementary ECL	■		
Complementary PECL		■	
Test load:			
R_{TT} (Ω)	50	50	
V_{TT} (V)	-2.0	+3.0	
Logic levels:			
'0' level (V max)	-1.60	+3.4	
'1' level (V min)	-1.16	+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

* Pullability is inclusive of calibration @ 25°C, operating temperature range, supply voltage change, load change and ageing, with $V_{CTL} = -2.5V / +2.5V$

Ordering Information

Product name + variant + frequency

eg: **GVXO-38N 622.08MHz** -5.2V supply

Option code X (eg GVXO-38P/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