VCXO - Complementary ECL/PECL UHF Range   GVXO-38

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 ±2.0V, 10% linearity, -ve slope	■		
+2.5V ±2.0V, 10% linearity, +ve slope		■	
Frequency pullability:			
±100ppm min	■	■	
Other	□	□	specify
Frequency stability*:			
±50ppm max	■	■	
Other	□	□	specify
Operating temperature range:			
-10 to +70°C	■	■	
Storage temperature range:			
-40 to +85°C	■	■	
Supply voltage: -5.2V (±5%)	■		
+5.0V (±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

	CONNECTION	
PAD	**Variant N**	**Variant P**
1	Control voltage	Control voltage
6	Enable / disable	Enable / disable
7	Supply (-ve)	Ground
8	Output 1	Output 1
9	Output 2	Output 2
14	Ground	Supply (+ve)

TOP VIEW

Scale 1:1

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$_{IL}$ ≤ -1.60V, '1' level = V$_{IH}$ ≥ -1.02V
GVXO-38P: '0' level = V$_{IL}$ ≤ +3.40V, '1' level = V$_{IH}$ ≥ +3.9V

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