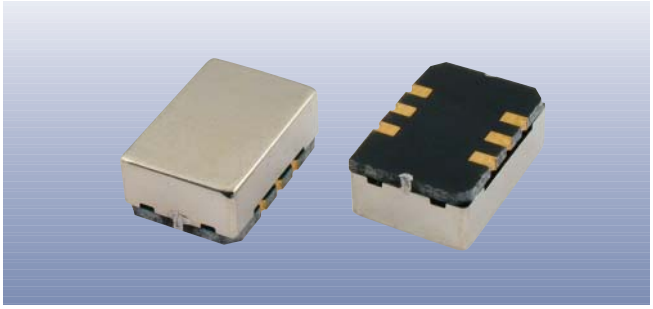
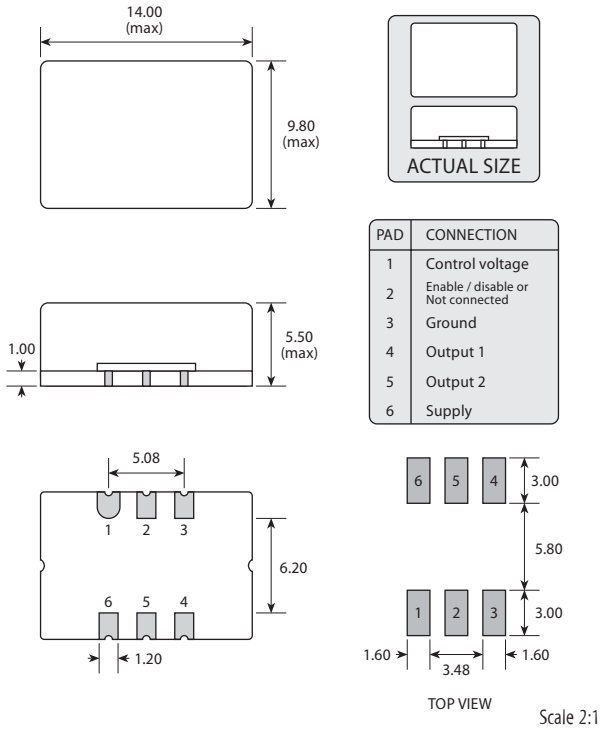
3.3V & 5V VCXO - Complementary PECL

GVXO-34





PAD	CONNECTION
1	Control voltage
2	Enable / disable or Not connected
3	Ground
4	Output 1
5	Output 2
6	Supply

Features

- **Complementary LV-PECL or PECL outputs**
- **Fast rise / fall times**
- **Popular telecomms package layout**
- **Enable / disable tristate function**

Enable / Disable Function

Input (pad 2)*	Output 1 (pad 4)	Output 2 (pad 5)
Open	Active	Active
'1' level V_{IH}	High ('1')	Low ('0')
'0' level V_{IL}	Active	Active

* Note: GVXO-34L: '0' level = $V_{IL} \leq +1.7V$, '1' level = $V_{IH} \geq +2.2V$
GVXO-34S: '0' level = $V_{IL} \leq +3.40V$, '1' level = $V_{IH} \geq +3.9V$

Specifications

GVXO-34L: +3.3V supply

GVXO-34S: +5.0V supply

Parameters	Variant L	Variant S	Option Codes
Frequency range: 50.0 ~ 800MHz	■		
50.0 ~ 170MHz		■	
Voltage control (V_{CTL}): +1.65V ±1.5V, 10% linearity	■		
+2.5V ±2.0V, 10% linearity		■	
Frequency pullability: ±80ppm min	■		
±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 (V_{CC}): +3.3V (±5%)	■		
+5.0V (±5%)		■	
Supply current (mA max): 50.0 ~ 170MHz	60	80	
170 ~ 800MHz	120		
Output: Complementary LV-PECL	■		
Complementary PECL		■	
Test load: R_{TT} (Ω)	50	50	
V_{TT} (V)	1.3	3.0	
Logic levels: '0' level (V max)	1.7	3.4	
'1' level (V min)	2.2	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 2	■	■	
None (pad 2 NC)	□	□	N
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} = 50% V_{CC}

Ordering Information

Product name + variant + option codes (if any) + frequency
eg: **GVXO-34L 77.760MHz** 3.3V, with E/D
GVXO-34S/N 155.520MHz 5.0V, no E/D
Option code X (eg GVXO-34S/X) denotes a combination of values not listed above.

- Available on T&R - 1k pcs per reel. Refer to our website for details.
- Some combinations of stability/pullability are not available

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