ULS201

Features

- PLL LOOP Bandwidth as low as ***≤50mHz***
- Better additional short-term stability,up to ***1.0E-13/1s***
- Ultra low phase noise ***≤-112dBc/Hz@1Hz***

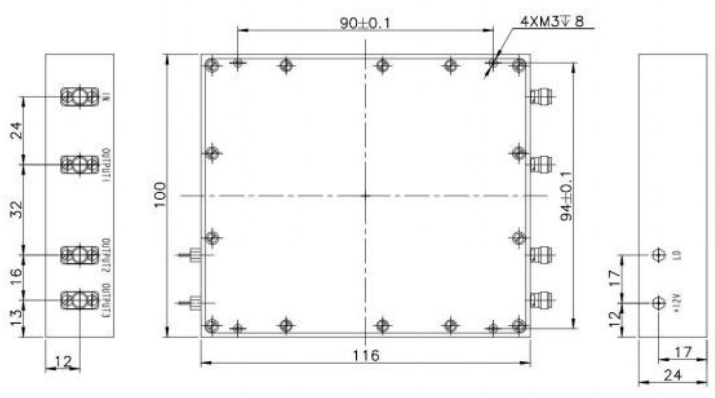
Applications

- Frequency standards and sources
- Measuring and calibration equipment
- Navigation

Technical Specifications

Standard Frequency	10.23 MHz			
Additional short-term stability	≤1×10^{-13}/1s			
Phase Noise (dBc/Hz,free-running)	**Option: S**	**Option: H**	**Option: L**	**Option: U**
1 Hz	-100	-103	-106	-110
10 Hz	-130	-133	-136	-140
100 Hz	-150	-155	-158	-162
1 KHz	-160	-165	-170	-173
10 KHz	-175	-175	-178	-178
Aging (after 30 days of continuous operation)	≤ 1×10^{-8} / year			
Input voltage range	12 VDC ± 5%			
Power consumption (at 25℃)	8W / 5W			
Warm up time (at 25℃ to 2×10^{-7})	≤ 5 min			
Input External Reference				
Frequency range	10MHz ±2Hz			
Power	10 ± 3 dBm			
PLL LOOP Bandwidth	50mHz ~100Hz			
Output specifications				
Wave form	Sine wave			
Number of outputs	3			
Port to port isolation（Same frequency）	≥ 40 dB			
Power	10 ± 3 dBm			
Harmonics	≤ -30 dBc			
Spurious	≤ -100 dBc			
Frequency stability vs Temperature (-40℃ to 70℃)	≤ 1×10^{-8}			
Load	50 Ω ± 5%			
g sensitivity	≤ 5×10^{-10} / g			
Vibration	MIL-STD-202G			
Size (L×W×H)	116×100×24mm			

Outline drawing and Electrical connections (mm)



IN：10MHz（SMA-F）

OUTPUT1：10MHz（SMA-F）

OUTPUT2：10.23MHz（SMA-F）

OUTPUT3：10.23MHz（SMA-F）

LD：Lock Date

+12V：+12V Power supply