ULS315

Features

- Better short-term stability,up to***5.0E-13/1s (50MHz)***
- Low phase noise***≤-104dBc/Hz@1Hz (50MHz)***
- Ultra low phase noise***≤-175dBc/Hz@10kHz (50MHz)***

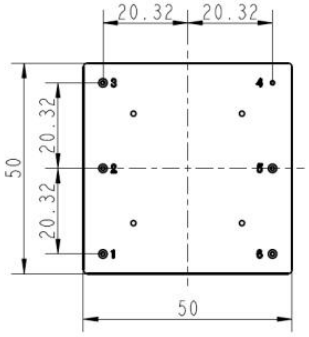
Applications

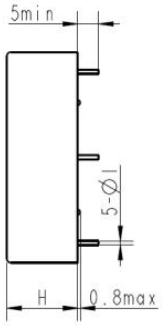
- Frequency standards and sources
- Measuring and calibration equipment
- Navigation

Technical Specifications

Standard Frequency	10 MHz	50 MHz	10 MHz	50 MHz	10 MHz	50 MHz	10 MHz	50 MHz
Short-term stability	≤ 5×10^{-12}/1s		≤3×10^{-12}/1s		≤1.5×10^{-12}/1s		≤ 8×10^{-13}/1s	
Phase Noise (dBc/Hz,free-running)	**Option: S**		**Option: H**		**Option: L**		**Option: U**	
1 Hz	-100	-86	-105	-91	-110	-96	-115	-101
10 Hz	-125	-106	-130	-111	-135	-116	-140	-121
100 Hz	-145	-130	-145	-135	-145	-140	-145	-143
1 KHz	-150	-160	-150	-163	-150	-165	-150	-168
10 KHz	-155	-170	-155	-173	-155	-175	-155	-175
100 KHz	-155	-175	-155	-175	-155	-178	-155	-178
Aging (after 30 days of continuous operation)	≤ 5×10^{-8}/ year							
Input voltage range	12 VDC ± 5%							
Power consumption (at 25℃)	7W / 3W							
Warm up time (at 25℃ to 2×10^{-7})	≤ 5 min							
Output specifications								
	10 MHz				50 MHz			
Wave form	HCMOS				Sine wave			
Power	≤0.5V(L)，≥4.0V(H)				9 ± 2 dBm			
Harmonics	-				≤ -30 dBc			
Spurious	-				≤ -75 dBc			
Load	10kΩ/30pF				50 Ω ± 5%			
Frequency stability vs Temperature (-40℃ to 70℃)	≤ 2×10^{-8}							
g sensitivity	≤ 5×10^{-10} / g							
Vibration	MIL-STD-202G							
Frequency control	≥±2×10^{-7}（0 ~ 5 V，Positive）							
Size (L×W×H)	50×50×19.05 mm^3							
	Option: 50×50×16 mm^3							

Outline drawing and Electrical connections (mm)





1	V_C
2	V_{REF}
3	50MHz
4	GND
5	10MHz
6	V_s