



# UMS110

## Features

- Better additional short-term stability, up to  $2.0E-14/1s$
- Ultra low phase noise  $\leq -115dBc/Hz@1Hz$ ,  $\leq -155dBc/Hz@1kHz$
- Low spurious  $\leq -100dBc$

## Applications

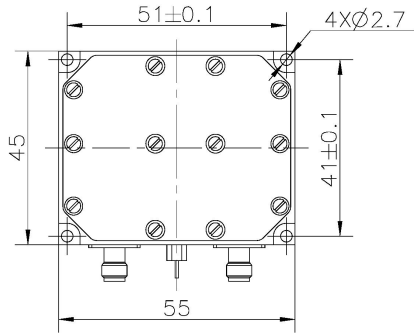
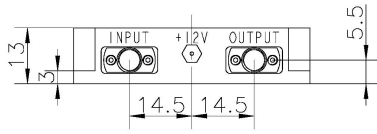
- Frequency standards and sources
- Measuring and calibration equipment
- Navigation

## Technical Specifications

Input Sign specifications		
Frequency range	10MHz $\pm$ 10Hz	
Wave form	Sine wave	
Power	10 $\pm$ 2 dBm	
Harmonics	$\leq$ -30 dBc	
Spurious	$\leq$ -70 dBc	
Load	50 $\Omega$ $\pm$ 5%	
Output Sign specifications		
Frequency range	100MHz $\pm$ 100Hz	
Wave form	Sine wave	
Power	10 $\pm$ 3 dBm	
Harmonics	$\leq$ -40 dBc	
Spurious	$\leq$ -80 dBc	$\leq$ -100 dBc
Load	50 $\Omega$ $\pm$ 5%	
Power stability vs Temperature (-40°C to 70°C)	$\leq$ 2.0dB	
Additional short-term stability		
	$\leq 2 \times 10^{-14}/1s$	
Phase Noise ( dBc/Hz)		
	Option: S	Option: U
1 Hz	-110	-115
10 Hz	-125	-130
100 Hz	-140	-145
1 KHz	-150	-155
10 KHz	-150	-155
Input voltage range		
	12 VDC $\pm$ 5%	
Power consumption (at 25°C)	2W	
Vibration	MIL-STD-202G	
Size (L×W×H)	55×45×13mm <sup>3</sup>	



**Outline drawing and Electrical connections (mm)**



INPUT: 10MHz (SMA-F)  
OUTPUT: 100MHz (SMA-F)  
+12V: DC +12v

