TMF1521

Ultra low noise frequency source

The TMF1521 is an autonomous frequency reference very high precision and very low phase noise.

It comes in 1U 19 "rack.

KEY FEATURES

The TMF1521 is used when an autonomous source of stable and accurate frequency is needed.

If a fine adjustment is needed, a potentiometer on the front panel of the rack allows this type of operation on the oscillator.

All the outputs are located on the rear face of the equipment. There is a choice between 6 or 12 outputs.10 MHz sine outputs or 5 MHz and BNC or SMA outputs.

A standard CEE power supply connector for 230 VAC power supply is provided with fuse, filter and On/Off switch.

Oscillator

The internal oscillator is a very low noise OCXO with good ratio of short & long term stability.

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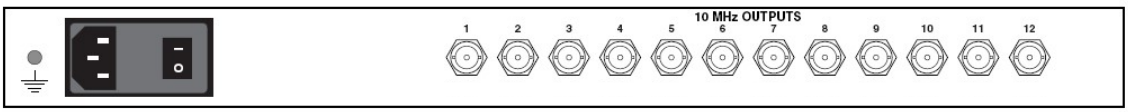
Front panel



Rear face

Spécification

Reference Frequency	10 MHz	
10Mhz Frequency outputs level	13 dBm ±1dBm max on 50 Ohm. Fix value adjusted in factory.	
Isolation between Outputs	50 dB	
Phase Noise	1Hz	< -100 dBc
	10Hz	< -130 dBc
	100Hz	< -145 dBc
	1KHz	< -150 dBc
	≥ 10KHz	< -160 dBc
Harmonics Distortion	< - 50 dBc	
Spurious	< -90 dBc	
Stability		
From [0…50°] C	$< \pm 5.10^{9}$	
1 second	$< \pm 1.10^{-12}$	
10 seconds	$< \pm 1.10^{-12}$	
1 day	$< \pm 5.10^{-10}$	
1 month	$< \pm 5.10^{-9}$	
1 year	$< \pm 3.10^{-8}$	
Time to get ΔF/F	= ± 5.10-8	
Température	Temps	
T = 25°C	120 Secondes	$\pm 5.10^{-8}$
Frequency Adjustment tuning	$\pm 3.10^{-7}$	$<\Delta F/F < \pm 5.10^{-7}$
OUTPUTS Connectivity	BNC for frequency	
Tuning control	Trimmer in front panel	

Dimensions : L = 19" (483 mm), H = 1U (44.5 mm), D = 280 mm, Max: 483 x 45 x 340 mm.

Weight : < 5 Kg

Consumption : 30 W

MTBF = 95 000 h

AC = 85-265 VAC / 50-60Hz

Ordering information

TMF1521: Standard Frequency Source 12 outputs

POSSIBLE OPTIONS: *6 outputs, 5MHz frequency, SMA outputs*

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