

TMF1521

Ultra low noise frequency reference

The TMF1521 is a high precision and low noise frequency reference housed in a 1U 19" rack .

KEY FEATURES

The TMF1521 is used when an autonomous source of stable and accurate frequency is needed . The front face of the equipment shows LEDs, corresponding with the frequency outputs.

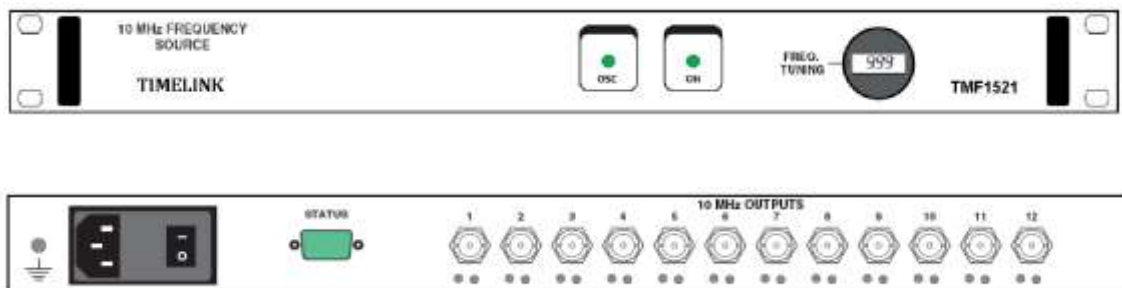
If a fine adjustment is needed, a potentiometer on the front panel of the rack allows this type of operation on the oscillator.

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

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

Oscillator

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



Front face & rear face of the equipment

Spécifications

Reference frequency	10Mhz
Isolation between outputs	50dB
Harmonic distortion	<-55dBc
Impedance	50 Ohm
Phase Noise	-130 dBc/Hz -150 dBc/Hz -155 dBc/Hz -160 dBc/Hz -160 dBc/Hz
Warm-up	5min$\pm 20\text{ ppb}$ ($dF/F=2.00E-8$)
Frequency Adjust, Tuning control	$\pm 3.10^{-7} <DF/F < \pm 5.10^{-7}</math>\pm 0.3 <DF/F < \pm 0.5\text{ ppm}</math>$
Aging	$\pm 3.10^{-8}$ first year $\pm 1.10^{-8}$ next year $\pm 0.17\text{ppm}$ total for 15 years
Temperature stability	[0,+50] $^{\circ}\text{C} = < \pm 5.10^{-9}</math>mean \pm 0.005\text{ppm}$
BITE	Failure detector with 1 LED indicator
10 MHz Interface	SMA (f) Connector
Output termination	50 Ohm Load
Tuning control	Trimmer in back panel
AC	85-265VAC / 50-60Hz
Size	1U
Weight	<5 kg
MTBF	>20 000 hrs

Ordering information

TMF1521: Ultra low noise frequency reference, 10x10 MHz SMA outputs

Options:

BNC connectors

Others oscillator type