

TMD1510

1 MHz to 100MHz
Low Noise
Frequency
Amplifier and
Distributor

The TMD1510 equipment provides 1MHz to 10MHz frequency source amplification and distribution.

The internal amplifiers ensure a very low phase noise
The equipment is in the form of a rack shelf 19 inches high 1U
This model has 12 independent outputs with the following characteristics:

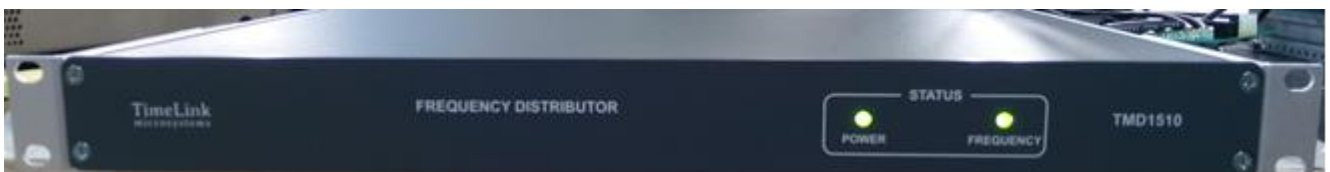
- **Insulated outputs by transformer**
- **Harmonics <-30 dB**
- **Phase noise at 5MHz or 10MHz is -156dBc/Hz for f>=10 KHz**

Operations

On the front panel, 2 LEDs provide the equipment status. ON LED indicates power is on and the FREQ ON LED indicates frequency input detection. Whenever a frequency is detected at the input it is distributed at the 12 outputs.

Alarm

A dry contact output provides Power and frequency outputs status.



| TMD1510 front panel

Specifications

Inputs

Input accepts level signals from +1 to +13 dBm

Outputs

The outputs provide a maximum level of +13 ± 1 dBm on a 50 Ohms load on the 12 available outputs

The input / output ratio is 1 ±1dBm

AC power

230V AC Power supply

CEE 2P + T socket with mains filter,

M / A switch

Voltage: 85-264VAC / 47-440Hz

Power consumption: <20W to 230VAC over 50 Hz per power supply

Connections

The input and output signals are located on the rear panel of the equipment

The connectors for the input and the 12 outputs are insulated BNC Female type

The alarm connector is a DB9 female type

Temperature

Operating temperature: -10 ° to 60 ° C

Storage temperature: -20 ° to 70 ° C

Operating relative humidity: 10% to 90% (non-condensing)

Storage relative humidity: 5% to 95% (non-condensing)

Performance for standard at 10MHz

Phase noise with appropriate source

1Hz -105 dBc/Hz

10Hz -130 dBc/Hz

100Hz -145 dBc/Hz

1KHz -155 dBc/Hz

≥ 10KHz -156 dBc/Hz

Spurious : < -80 dBc

Harmonics : < -30 dBc

Performance for advance version at 10 MHz

Phase noise with appropriate source

1Hz -105 dBc/Hz

10Hz -130 dBc/Hz

100Hz -150 dBc/Hz

1KHz -155 dBc/Hz

≥ 10KHz -160 dBc/Hz

Spurious : < -80 dBc

Harmonics : < -30 dBc

Alarm

Power supply and Frequency alarms are output as dry contacts.

Dimensions

Rack 1U 19'' Depth 320 mm

Weight

< 3 Kg

MTBF

> 150 000h

Consummation:

< 20 W

Certification

EU, ROHS, REACH, EAR99 and ITAR free



TMD1510 rear panel

Ordering Code:

TMD1510: Standard model

TMD1510-1: With Advanced performance