

TMD1510

Low Noise Frequency Amplifier and Distributor

The TMD1510 equipment provides 5MHz 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:

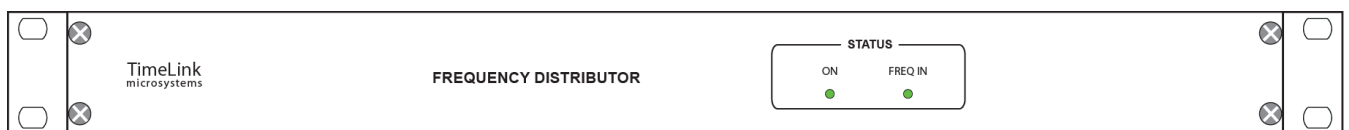
- **Insulated outputs by transformer**
- **Harmonics <-30 dB**
- **Phase noise -160dBc for f>=10 KHz**

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

Both inputs accept level signals from +1 to +13 dBm

Outputs

The outputs provide a maximum level of $+13 \pm 2$ dBm on a 50 Ohm 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 done via the rear panel of the equipment

The connectors for the two inputs 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

Phase noise (with appropriate source)

1Hz -115 dBc/Hz

10Hz -135 dBc/Hz

100Hz -150 dBc/Hz

1KHz -155 dBc/Hz

≥ 10 KHz -160 dBc/Hz

Spurious : < -65 dBc

Harmonics : < -30 dBc

Alarm

Power supply and Frequency alarm are output as dry contacts.

Dimensions

Rack 1U 19" Depth 320 mm

Weight

< 3 Kg

MTBF

> 150 000h

Consummation:

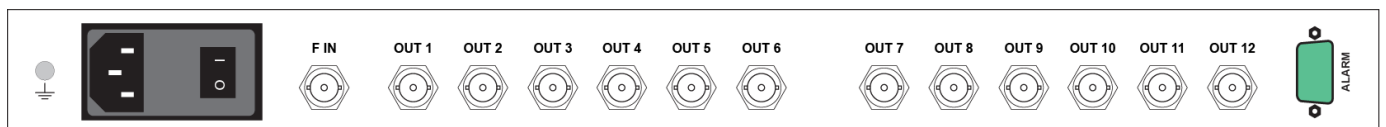
< 20 W

Certification

EU, ROHS and ITAR free

Options

SMA Connector type (non insulated)



TMD1510 rear panel

Ordering Code:

TMD1510: standard model