

## TMD151X

1 MHz to 10 MHz

Low Noise

Frequency

Amplifier and

Distributor

The TMD1510 equipment provides 1 MHz to 10 MHz 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 5 MHz or 10 MHz is -162 dBc/Hz for  $f \geq 10$  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 ± 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 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

≥ 10KHz -162 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)

Additional DC power supply



TMD1510 rear panel

### Ordering Code:

**TMD1510:** standard model

**TMD1515:** option DC power supply