

# TMD2313

10MHz

Frequency Low  
Noise Switch,  
Amplifier and  
Distributor

The TMD2313 equipment provides switching between two 10 MHz frequency sources, amplification and distribution of these frequencies

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:

- Isolation between channels > - 50 dB
- Harmonics <-30 dB
- Phase Noise <-162 dB

## Operations

On the front panel, 2 groups of 3 LEDs, combined with 2 push buttons allow:

- Selects the mode:  
Automatic or Manual
- Selects source in manual mode  
Source A or Source B
- Indicates the source chosen
- Indicates the status of the source

## Remote control

Remote control is done via Ethernet connection /IP 10/100 Mbit/s or via http protocol which makes it possible to obtain information on the state of the equipment:

- Operating mode
- Track status
- Channel selection



TMD2313 front panel

## Specifications

### Inputs

Both inputs accept level signals from +10 to +13 dBm  $\pm$  1 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

The outputs are not isolated

### Switching

The time to detect a fault on an input is  $\leq$ 40ms

The switching time is  $\leq$  50ms

### Redundant AC power

2 x 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 non-insulated SMA Female type

The remote control connector is an RJ45 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)

### Dimensions

Rack 1U 19" depth 320 mm

### Weight

< 3.5 Kg with the 2 AC power cables

### MTBF

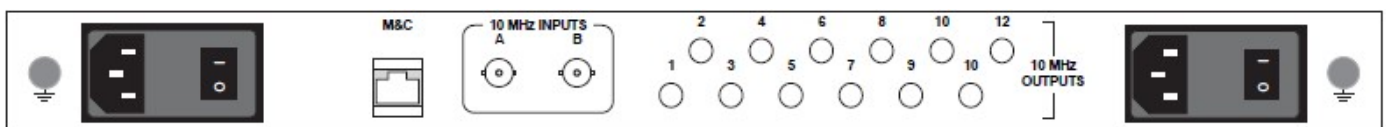
TMD2313 : > 150 000h

### Consummation:

< 20 W

### Certification

Certification with EU, ROHS et ITAR free



TMD2313 rear panel

### Ordering Code:

**TMD2313:** standard model