

# TMF1211

## 10 MHz Frequency

### Source 4 output

TMF1211 is designed for applications requiring an accurate 10 MHz source reference and a distribution signal on 4 outputs.

The equipment is as a standard to the housing 19" height 1 U.

It is powered by VAC with a large range in voltage and frequency.

#### Oscillator

The 10 MHz pilot is a thermostatic crystal oscillator (OCXO) of high stability and having excellent phase noise performance.

The frequency of the driver is adjustable by a multi-turn potentiometer accessible from the front face of the drawer.

#### Frequency outputs

The driver outputs a level is distributed to the four output amplifiers.

Frequency outputs are equipped with a passive bandpass filter and an isolation transformer.

Each output has a separate amplifier to improve noise rejection injected onto a release.

The output signal is adjustable from 0 to 13 dBm at a load of 50  $\Omega$ . The setting is common to all outputs and it is done in factory.

Output BNC connectors are insulated from the mechanical ground.

#### Monitoring

A local monitoring (alarm light) and remote (dry contact) is available on the equipment.



TMF1211 Front Panel

## Specifications

### Internal reference

OCXO type Oscillator, 10 MHz

#### free running mode:

Short term stability:

1s ..10s < 1.10<sup>-12</sup>

100s < 2.10<sup>-11</sup>

Long term stability:

1 day < 2.10<sup>-10</sup>

1 month < 5.10<sup>-9</sup>

1 year < 3.10<sup>-8</sup>

Drift per on/ off cycle:

<± 5 10<sup>-10</sup>

#### Guaranteed Phase noise:

1Hz <-100 dBc/Hz

10Hz <-130 dBc/Hz

100Hz <-140 dBc/Hz

1 KHz <-148 dBc/Hz

10 KHz <-150 dBc/Hz

100 KHz <-150 dBc/Hz

1MHz <-150 dBc/Hz

Spurious : < - 80 dBc

Harmonics : < -50 dBc

### Frequency setting

#### Adjustment range:

± 8 10<sup>-7</sup> (resetting the driver on a 15-year duration)

Setting type:

Multi turn potentiometer available from the front

### 10 MHz outputs

Number: 4 outputs

Filtering: bandpass Elliptical

Isolation: By transformer

Range: 0 to 13dBm 50 Ω (common setting outputs)

Connector: BNC isolated

### Control

On: Green LED on the front panel

Alarm: Red LED on the front panel

### Remote monitoring

**Type:** free contacts (NO or NC), switching capacity 500 mA at 50 VDC.

Connector: D-sub 9-pin male

### Temperature:

Temperature: -10 ° to 60 ° C

Storage temperature: -20 ° to 70 ° C

Relative Humidity range: 10% to 90% (non-condensing)

Storage Relative Humidity: 5% to 95% (non-condensing)

### Power supply:

230V AC mains supply:

EEC socket 2P + with filter & On / Off

switch voltage: 85-264VAC / 47-440Hz

Power consumption: <20W 230VAC 50Hz

### Certification:

Certified Hardware CE, ROHS and ITAR

### Dimensions:

Standard 19" 1U with Depth of 220 mm

### Weight:

< 5 kg

### MTBF

> 90 000 h



TMF1211 Rear Panel

## ORDERING

TMF1211: standard model