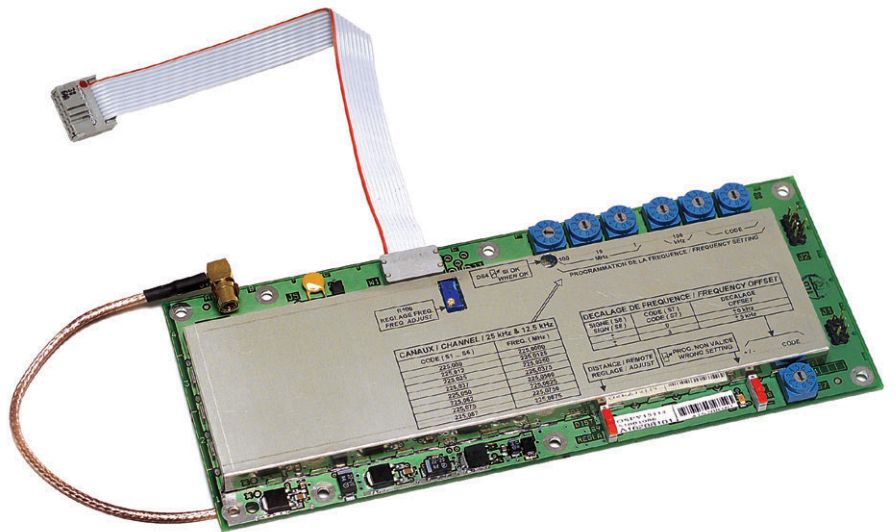


# UHF SYNTHESIZED MASTER OSCILLATOR

The PY 918 A synthesized master oscillator has been designed to act as master oscillator for transmitters of 910 serie.

It allows to synthesize transmission frequencies in order to operate with channels spacing of 12,5 kHz (offset carrier  $\pm 5$  kHz) in the 225-400 MHz frequency range.



The frequency selection is made from coding wheels.

The synthesized master oscillator is in the form of a printed circuit board, designed to be fixed on the power stage cover of transmitters.

PY 918 A

## ELECTRICAL CHARACTERISTICS

- **Frequency range:**  
225 -400 MHz
- **Output level:**  
+2 dBm,  $\pm 3$  dB on 50 ohms
- **Frequency stability:**  
 $\pm 1 \times 10^{-6}$
- **Channel spacing:**  
12.5 kHz
- **Offset carrier:**  
 $\pm 5$  kHz
- **Non harmonic frequencies:**  
-80 dB
- **Attenuation of unlocked signal:**  
-20 dB
- **Noise under the carrier (at 1% of OF):**  
> 150 dBHz
- **Power supply (voltage supplied by the Tx):**  
+24 V = nominal
- **Consumption :**  
< 150 mA

## MECHANICAL CHARACTERISTICS

- **Dimensions:**  
200 mm x 80 mm x 16 mm

## ENVIRONMENTAL CHARACTERISTICS

- **Operation guaranteed:**  
between -20°C and +55°C
- **Relative humidity:**  
95% relative humidity at 40°C  
(without condensation)
- **Storing temperature:**  
between -40°C and +70°C

Data subject to change

