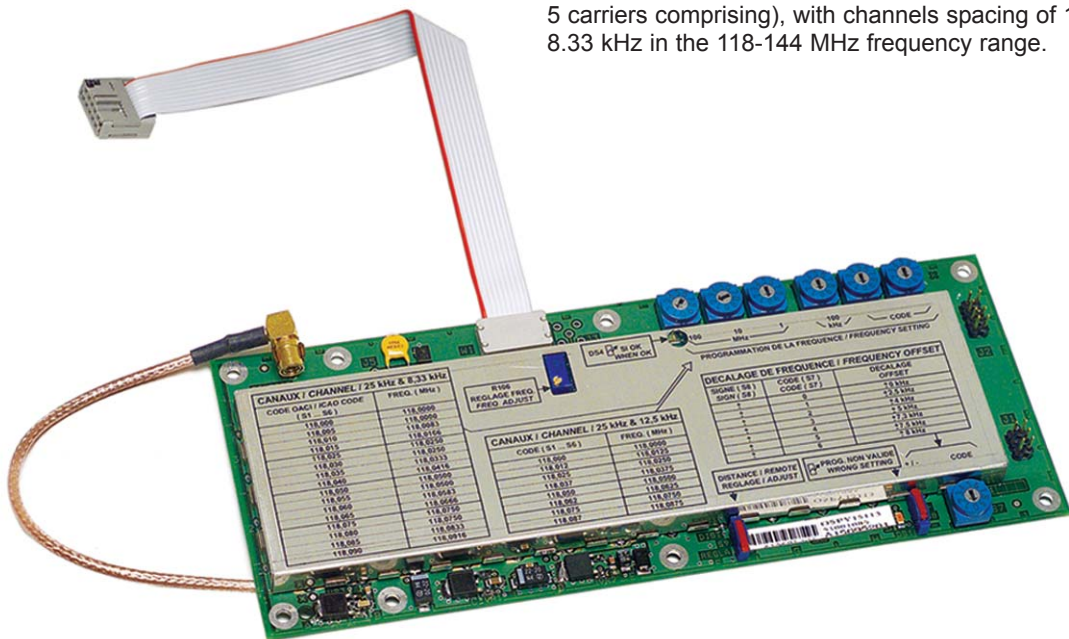


VHF SYNTHESIZED MASTER OSCILLATOR

The PY 908 A synthesized master oscillator has been designed to act as master oscillator for transmitters of 900-908 series.

It allows to synthesize transmission frequencies in order to operate with channels spacing of 25 kHz (offset carrier 2,3,4 or 5 carriers comprising), with channels spacing of 12.5 kHz and 8.33 kHz in the 118-144 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 908 A

ELECTRICAL CHARACTERISTICS

- **Frequency range:**
118 -144 MHz (optional: range extension)
- **Output level:**
+2 dBm, ± 3 dB on 50 ohms
- **Frequency stability:**
 $\pm 1 \times 10^{-6}$
- **Channel spacing:**
25 kHz, 12.5 kHz or 8.33 kHz
- **Offset carrier (channels at 25 kHz) according to annex 10 of OACI, D§2.2:**
2, 3 or 4 carriers (5 carriers with associated master oscillator)
- **Non harmonic frequencies:**
-80 dB
- **Attenuation of unlocked signal:**
-20 dB
- **Noise under the carrier (at 1% of OF):**
> 150 dBc/Hz
- **Power supply (voltage supplied by the transm.):**
+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