

# 903 MAST AMPLIFIERS

AMP UHF+BIII/FM 32 DB LTE700 MAST 12 VDC



Code : **9030186**

Model : **AM-187**

## Description

Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470-694 MHz. They have one input to amplify and combine the signals from the antennas. The inputs can be configured as a single input for the combined bands or two inputs for separate bands. They are fed through the coaxial cable from a power supply unit installed inside the building.

## Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE mobile phone signals and which require low gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

## Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

| CODE                     |             | 9030185   |          |             | 9030186         |             |             |
|--------------------------|-------------|---|----------|-------------|-----------------|-------------|-------------|
| MODEL                    |             | AM-183  |          |             | AM-187          |             |             |
| Connection               |             | F female  |          |             |                 |             |             |
| Inputs                   |             | 1/2   |          |             | 1/2             |             |             |
| Frequency range          | Band        | FM  | BIII/DAB | UHF         | FM              | BIII/DAB    | UHF         |
|                          | MHz         | 88-108  | 160-260  | 470-694     | 88-108          | 160-260     | 470-694     |
| Gain                     | dB          | 16  |          | 24          | 20              |             | 34          |
| Flatness response        | dB          | ±1  |          | ±2          | ±1              |             | ±2          |
| Adjustable gain range    | dB          | 20  |          | 16          | 20              |             | 16          |
| Output level             | dB $\mu$ V  | 108 DIN 45004B<br>105 (IMD <sub>3</sub> -66dB)<br>95 (IMD <sub>2</sub> -60dB) |          |             |                 |             |             |
| Return loss              | dB          | ≥10   |          |             |                 |             |             |
| Noise figure             | dB          | 5,0<br>±1,0   |          | 3,5<br>±1,0 |                 | 5,0<br>±1,0 | 3,5<br>±1,0 |
| Rejection between inputs | dB          | >30   |          |             |                 |             |             |
| Power supply             | V $\bar{G}$ | 12  |          |             |                 |             |             |
|                          | mA          | 45  |          |             |                 |             |             |
| Operating temperature    | °C          | -20.. 65  |          |             |                 |             |             |
| Protection index         |             | IP53  |          |             |                 |             |             |
| Units per packaging      |             | 1   |          |             | 24              |             |             |
| Packing weight           | Kg          | 0,22  |          |             | 5,87            |             |             |
| Packing dimension        | mm          | 110 x 125 x 45  |          |             | 345 x 200 x 280 |             |             |