

# 903 MAST AMPLIFIERS

## AMP UHF-DAB/FM 20 DB LTE MAST 24 VDC



Code : **9030166**

Model : **AM-262**

### Description

Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470-790 MHz. They have one or two inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

### 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                     |                  | 9030165   | 9030166 |         |                 | 9030172 |         |         |         |
|--------------------------|------------------|---|---------|---------|-----------------|---------|---------|---------|---------|
| MODEL                    |                  | AM-160  | AM-262  |         |                 | AM-362  |         |         |         |
| Connection               |                  | F female  |         |         |                 |         |         |         |         |
| Inputs                   |                  | 1   | 2       |         |                 | 3       |         |         |         |
| Frequency range          | Band             | UHF   | FM      | DAB     | UHF             | FM      | DAB     | UHF1    | UHF2    |
|                          | MHz              | 470-790   | 88-108  | 160-260 | 470-790         | 88-108  | 160-260 | 470-790 | 470-790 |
| Gain                     | dB±              | 20  | 10      |         | 20              | 10      |         | 20      |         |
| Flatness response        | dB               | ±2  | ±1      |         | ±2              | ±1      |         | ±2      |         |
| Adjustable gain range    | dB               | 16  | 20      |         | 16              | 20      |         | 16      |         |
| Output level             | dB <sub>pV</sub> | 108 DIN 45004B<br>105 (IMD <sub>3</sub> - 66 dB)<br>93 (IMD <sub>2</sub> - 60 dB) |         |         |                 |         |         |         |         |
| Return loss              | dB               | ≥10   | ≥10     |         |                 | ≥10     |         |         |         |
| Noise figure             | dB               | 3±1   | 5±1     |         | 3±1             | 5±1     |         | 5,5±1   |         |
| Rejection between inputs | dB               | ≥30   |         |         |                 |         |         |         |         |
| Power supply             | V <sub>DC</sub>  | 24  |         |         |                 |         |         |         |         |
|                          | mA               | 30  |         |         |                 |         |         |         |         |
| Switchable DC path       | V <sub>DC</sub>  | 24  | -       | 24      | -               | 24      | -       | 24      | 24      |
|                          | mA               | 50  | -       | 50      | -               | 50      | -       | 50      | 50      |
| Operating temperature    | °C               | -10..+65  |         |         |                 |         |         |         |         |
| Protection index         |                  | IP 53   |         |         |                 |         |         |         |         |
| Units per packaging      |                  | 1   |         |         | 24              |         |         |         |         |
| Packing weight           | Kg               | 0.22  |         |         | 5.78            |         |         |         |         |
| Packing dimensions       | mm               | 110 x 125 x 45  |         |         | 345 x 200 x 280 |         |         |         |         |