



AM-183

**Description**

Broadband masthead amplifier for masts. Unit has selectable one or two inputs to enable a combination VHF/UHF antenna to be used or you can select separate VHF and UHF inputs for separate antennas. Masthead will feed the amplified signal through the coax cable and is powered from a power supply unit installed inside the building. Individual gain control for VHF and UHF band.

**Applications**

Individual digital and analogue terrestrial TV installations 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.

| CODE                     | 9030185      |   |         |             | 9030186   |                 |             |  |  |
|--------------------------|--------------|---|---------|-------------|-----------|-----------------|-------------|--|--|
| MODEL                    | AM-183       |   |         |             | AM-187    |                 |             |  |  |
| Connection               | F female     |   |         |             |           |                 |             |  |  |
| Inputs                   | 1 / 2        |   |         |             | 1 / 2     |                 |             |  |  |
| Frequency range          | Band         | FM  | BIII    | UHF         | FM        | BIII            | UHF         |  |  |
|                          | MHz          | 88-108  | 160-260 | 470-862     | 88-108    | 160-260         | 470-862     |  |  |
| Gain                     | dB           | 16  |         | 24          | 20        |                 | 32          |  |  |
| Adjustable gain range    |              | 20  |         | 16          | 20        |                 | 16          |  |  |
| Output level             | dB $\mu$ V   | 108 DIN 45004B<br>105 IMD <sub>3</sub> - 66 dB<br>93 IMD <sub>2</sub> - 60 dB |         |             |           |                 |             |  |  |
| Noise figure             | dB           | 5 $\pm$ 1   |         | 3.5 $\pm$ 1 | 5 $\pm$ 1 |                 | 3.5 $\pm$ 1 |  |  |
| Rejection between inputs | dB           | $\geq$ 30   |         |             |           |                 |             |  |  |
| Power supply             | V $\cdots$   | 12  |         |             |           |                 |             |  |  |
|                          | mA           | 45  |         |             |           |                 |             |  |  |
| Operating temperature    | $^{\circ}$ 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 |             |  |  |

DIN 45004B: 3 unequal carriers, IMD<sub>3</sub> at 60 dB  
 IMD<sub>3</sub> - 66 dB: 3 unequal carriers, EN 50083-5  
 IMD<sub>2</sub> - 60 dB: 2 equal carriers, EN 50083-5