

903 MAST AMPLIFIERS

AMP UHF-BIII/DAB 20 DB LTE MAST 12 VDC



Code : **9030175**

Model : **AM-270**

Description

Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470-790 MHz. Includes a rejection filter to suppress LTE signals. 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.

Accessories

9030087 AL-105 +12 power supply unit. 9120011 RS-275 Type F load of 75Ω 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm. CODE 9030178 90

| CODE | | 9030178 | | 9030175 | |
|--------------------------|--------------|---|---------|-----------------|---------|
| MODEL | | AM-173 | | AM-270 | |
| Connection | | F female | | | |
| Inputs | | 1 | | 2 | |
| Frequency range | Band | BIII/DAB/UHF | | BIII/DAB | UHF |
| | MHz | 160-260 | 470-790 | 160-260 | 470-790 |
| Gain | dB | 10 | 20 | 10 | 20 |
| Flatness response | dB | ±1 | ±2 | ±1 | ±2 |
| Adjustable gain range | dB | 20 | 16 | 20 | 16 |
| Output level | dB μ V | 108 DIN 45004B 105 (IMD ₃ - 66 dB) 93 (IMD ₂ - 60 dB) | | | |
| Return loss | dB | ≥10 | | ≥10 | |
| Noise figure | dB | 5±1 | 3,5±1 | 5±1 | 3,5±1 |
| Rejection between inputs | dB | ≥30 | | | |
| Power supply | V $\ddot{=}$ | 12 | | | |
| | mA | 30 | | | |
| Switchable DC path | V $\ddot{=}$ | - | - | - | 12 |
| | mA | - | - | - | 50 |
| Operating temperature | °C | -20...+65 | | | |
| Protection index | | IP 53 | | | |
| Units per packaging | | 1 | | 24 | |
| Packing weight | Kg | 0.25 | | 5.78 | |
| Packing dimensions | mm | 110 x 125 x 45 | | 345 x 200 x 280 | |