

# 904 BROADBAND AMPLIFIERS

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## AMP UHF-VHF/FM 2 OUTPUTS



Code : **9040011**

Model : **CA-311**

### Description

Broadband head-end amplifiers with 2 inputs. Built on a compact chassis, they are capable of supplying a signal to a large number of outlets. Two identical outputs in order to increase the number of outlets. Available on request in 125 or 240 V~.

### Applications

Designed for analogue and digital terrestrial TV installations in medium-sized MATV networks or individual installations. They are used as the head-end amplifier of the installation. The two outputs facilitate star-shaped distribution from the head-end through the use of splitters.

### Characteristics

Made from ABS plastic, with an internal zamak chassis of which provides maximum shielding. F type connectors which affords a connection with minimum mismatching and high shielding. Power supply unit insulated from the rest of the high frequency circuit, complying with all safety standards.

| CODE                             | 9040060                   |  |         | 9040014              |  |                |         | 9040011 |            |         |
|----------------------------------|---------------------------|--|---------|----------------------|--|----------------|---------|---------|------------|---------|
| MODEL                            | CA-210                    |  |         | CA-310               |  |                |         | CA-311  |            |         |
| TV System                        | AM-TV / DVB-T             |  |         |                      |  |                |         |         |            |         |
| Connection                       | F female                  |  |         |                      |  |                |         |         |            |         |
| Number of outputs                | 2                         |  |         | 2+Test               |  |                |         | 2       |            |         |
| Number of inputs                 | 1                         |  |         | 3                    |  |                |         | 2       |            |         |
| Frequency range                  | Band                      | VHF/FM/DAB   | UHF     | BI                   | FM   | BIII           | UHF 1   | UHF 2   | VHF/FM/DAB | UHF     |
|                                  | MHz                       | 40-400   | 470-862 | 40-70                | 88-108   | 160-260        | 470-862 |         | 40-260     | 470-862 |
| Gain                             | dB±TOL                    | 24 ±1,0  | 25 ±1,5 | 35 ±1,0              | 25 ±1,0  | 35 ±1,0        | 42 ±2,0 |         | 33 ±1,0    | 42 ±2,0 |
| Flatness response                | dB                        | ±1.2   | ±1.5    | ±1.5<br>±0.25 (8MHz) |  |                |         |         |            |         |
| Adjustable gain range            | dB                        | 16   | 12      | 20                   |  | 16             |         | 20      | 16         |         |
| Output test point                | dB                        | -  |         |                      | -30 ±0.5   |                |         |         | -          |         |
| Output level                     | dBµV                      | 2x102 DIN 45004B<br>2x99 (IMD3-60 dB)<br>2x86 (IMD2-60 dB) |         |                      | 2x110 DIN 45004B<br>2x107 (IMD3-66 dB)<br>2x100 (IMD2-60 dB) |                |         |         |            |         |
| Isolation between inputs/outputs | db                        | -  |         |                      | 13   |                |         |         |            |         |
| Output voltage                   | V $\overline{\text{---}}$ | 24 Switchable  |         |                      | -  | 24 Auto        | -       | -       | -          | 24 Auto |
|                                  | mA                        | 55   |         |                      | -  | 50             | -       | -       | -          | 50      |
| Return loss                      | dB                        | 10   |         |                      |  |                |         |         |            |         |
| Chroma - luminance delay         |                           | -  |         |                      | <10  |                |         |         |            |         |
| Noise figure                     | dB                        | <4.5   | <3.0    | 5 ±1,5               |  |                |         | 4 ±1,5  | 3 ±1,0     |         |
| Mains voltage                    | V $\sim$                  | 230 ±10% 50/60 Hz  |         |                      |  |                |         |         |            |         |
|                                  | VA                        | 7  |         |                      |  |                |         |         |            |         |
| Operating temperature            | °C                        | -5..+60  |         |                      | -10..+65   |                |         |         |            |         |
| Protection index                 |                           | IP 20  |         |                      |  |                |         |         |            |         |
| Units per packaging              |                           | 1  |         |                      |  |                |         |         |            |         |
| Packing weight                   | Kg                        | 0.38   |         |                      |  | 0.58           |         |         |            |         |
| Packing dimensions               | mm                        | 115 x 102 x 45   |         |                      |  | 160 x 100 x 50 |         |         |            |         |