

# 904 BROADBAND AMPLIFIERS

## DISTRIBUTION AMPL (RP 30MHZ)



Code : **9040031**

Model : **CF-111**

### Description

Broadband distribution amplifier for terrestrial TV available in different output levels. It amplifies the return path, and is available in different frequencies according to the model. It has a gain control and slope control. Fed by a built-in switching power supply. The input and output test point permits the checking and adjustment of the installation without having to disconnect the TV signal.

### Applications

Used as a distribution amplifier in large community installations or cable networks. It can be used as a line amplifier in small cable networks. These installations commonly have long runs of cable which attenuate and unbalance the signal. The channels with higher frequencies attenuate more. The distribution amplifiers compensate this loss with the equaliser and amplify the channels adding as little noise as possible.

### Characteristics

Made from zamak and galvanised plate for maximum shielding. Separate housings for the power supply unit and the high frequency circuit. F type connectors, located on the lower part to help with the installation.

| CODE                          |        | 9040031   |  | 9040036   |   |
|-------------------------------|--------|---|--|---|---|
| MODEL                         |        | CF-111  |  | CF-711  |   |
| Frequency range               | Band   | RP  | TV   | RP  | TV  |
|                               | MHz    | 5 - 30  | 47 - 862   | 5 - 30  | 47 - 862  |
| Gain                          | dB±TOL | 10 ±1   | 38 ±2  | 10 ±1   | 47 ±2   |
| Gain adjustment               | dB     | -   | 20   | -   | 20  |
| Adjustable equalization range | dB     | -   | 18   | -   | 18  |
| Input/output test point       | dB±TOL | -28 ±1  | -30 ±2   | -28 ±1  | -30 ±1  |
| Output level                  | dBµV   | 110 DIN 45004B<br>107 (IMD <sub>3</sub> -60 dB)<br>90 (IMD <sub>2</sub> -60 dB) | 113 DIN 45004B<br>110 (IMD <sub>3</sub> -60 dB)<br>103 (IMD <sub>2</sub> -60 dB)<br>95 (CTB -60 dB)<br>99 (CSO -60 dB)<br>95 (XMOD -60 dB) | 110 DIN 45004B<br>107 (IMD <sub>3</sub> -60 dB)<br>90 (IMD <sub>2</sub> -60 dB) | 120 DIN 45004B<br>117 (IMD <sub>3</sub> -60 dB)<br>110 (IMD <sub>2</sub> -60 dB)<br>103 (CTB -60 dB)<br>104 (CSO -60 dB)<br>102 (XMOD -60 dB) |
| Return loss I/O               | dB     | ≥14   | ≥10  | ≥14   | ≥10   |
| Chroma - luminance delay      | ns     | <80   |  |   |   |
| Group delay                   | ns     | <40   |  |   |   |
| Noise figure                  | dB     | ≤8.5  |  |   |   |
| Mains voltage                 | V~     | 230 ±15% 50/60 Hz   |  |   |   |
|                               | W      | 8   |  | 12  |   |
| Operating temperature         | °C     | -20...+60   |  |   |   |
| Protection index              |        | IP 50D  |  |   |   |
| Units per packing             |        | 1   |  |   |   |
| Packing weight                | Kg     | 1.8   |  |   |   |
| Packing dimensions            | mm     | 220 x 200 x 60  |  |   |   |