

# 904 DISTRIBUTION AMPLIFIERS

## High gain distribution amplifiers



### 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. Feed 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		
MODEL	CF-111		
Frequency range	Band	RP	TV
	MHz	5-30	47-862
Gain	dB±TOL	10 ±1,0	38 ±2,0
Gain adjustment	dB	-	20
Adjustable equalization range	dB	-	18
Input/output test point	dB±TOL	-28 ±1,0	-30 ±2,0
Output level	dBµV	110 DIN 45004B	113 DIN 45004B
		107 (IMD <sub>3</sub> - 60 dB)	110 (IMD <sub>3</sub> - 60 dB)
		90 (IMD <sub>2</sub> - 60 dB)	103 (IMD <sub>2</sub> - 60 dB)
			95 (CTB - 60 dB)
			99 (CSO - 60 dB)
			95 (XMOD - 60 dB)
Return loss I/O	dB	≥14	≥10
Chroma-luminance delay	ns	<80	
Group delay	ns	<40	
Noise figure	dB	≥ 8.5	
Fuse	V~	250	
	A	1.6	
Mains voltage	V~	230 ±15% 50/60 Hz	
	VA	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	

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

CTB -60 dB: 42 equal carriers, EN 50083-3  
 CSO -60 dB: 42 equal carriers, EN 50083-3  
 XMOD -60 dB: 42 equal carriers, EN 50083-3