

904 MULTIBAND AMPLIFIERS

Head-end amplifiers



CA-312



CA-313

Description

Broadband head-end amplifier with several inputs and different band configurations. The built-in power supply unit can feed up to five preamplifiers automatically. Output test-point to adjust the installation without having to disconnect the TV signal.

Applications

Designed to build large analogue and digital terrestrial MATV installations. Suitable for installations where the channels of each band are received at similar levels. Adjustment by means of regulators which control the gain at each input.

Characteristics

Made from zamak and galvanised steel plate to provide maximum shielding. Independent housings for the power supply unit and the high frequency circuit. F type connectors in nickel-plated iron which gives a connection with minimum mismatching and maximum shielding. Input and output connectors in the lower part facilitate installation.

Accessories

- 9140000 FE-009 Cluster filter.
- 9120039 CM-004 Male F connector for Ø6.6 mm coaxial cable.
- 9080023 MC-302 Male F connector for RG-6 coaxial cable, Ø7.0 mm.
- 9080030 MC-304 Male compression F connector for RG-6 coaxial, Ø7.0 mm.
- 9120011 RS-275 F load 75Ω.

CODE	9040039					9040058					
MODEL	CA-312					CA-313					
TV System	AM-TV / DVB-T										
Connection	F female										
Number of outputs	2					1					
Number of inputs	4					5					
Frequency range	Band	BI / FM	BIII	UHF 1	UHF 2	BI	BIII	BIV	BV	UHF	
	MHz	40-108	160-260	470-862		40-88	160-260	470-590	614-862	470-862	
Gain	dB±TOL	20 ±1,0	20 ±1,0	30 ±1,0		25 ±1,5		34 ±1,5			
Flatness response	dB	±1.5		±0.25		±1.5 ±0.25 (8MHz)					
Adjustable gain range	dB	20		16		20		16			
Output level	dBµV	2x110 DIN 45004B 2x107 (IMD3 - 66 dB) 2x100 (IMD2 - 60 dB)					114 DIN 45004B 111 (IMD3 - 66 dB) 104 (IMD2 - 60 dB)				
Isolation between inputs/outputs	db	13					-				
Output voltage	V _{DC}	-		24 Auto	-	-			12 Auto		
	mA	50									
Return loss	dB	10									
Chroma - luminance delay		<10									
Noise figure	dB	6.5 ±1,5		5.5 ±1,5		6.5 ±1,5		5.5 ±1,5			
Mains voltage	V _~	230 ±10% 50/60 Hz					230 ±15% 50/60 Hz				
	VA	7					6				
Operating temperature	°C	-10..+65									
Protection index		IP 20									
Units per packaging		1									
Packing weight	Kg	0.58									
Packing dimensions	mm	160 x 100 x 50									

DIN 45004B: 3 unequal carriers, IMD₃ at 60 dB
 IMD₃ - 60 dB: 2 equal carriers, EN 50083-3
 IMD₂ - 60 dB: 2 equal carriers, EN 50083-3