

# 904 MULTIBAND AMPLIFIERS

## TV-SAT High gain head-end amplifiers



CA-720

### Description

TV-SAT Broadband head-end amplifier with several inputs. They independently amplify the terrestrial TV and satellite IF bands, distribute both bands through the output. It has a voltage switch and 22 KHz tone in order to select the polarity of an individual LNB. The built-in power supply unit can feed up to five preamplifiers and a LNB automatically.

### Applications

Designed for medium to large analogue and digital SMATV installations. Used as a single piece of equipment to treat all terrestrial and satellite TV signals, greatly simplifying the installation. Adjusted by means of a gain controller and a variable slope control for SAT.

### 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 make installation easier.

### Accessories

9040003 CA-730 Head-end SAT amplifier.  
 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.



CA-720

CODE		9040077					
MODEL		CA-720					
TV System		AM-TV / DVB-T / FM-TV / DVB-S					
Connection		F female					
Number of outputs		1					
Number of inputs		6					
Frequency range	Band	BIII/DAB	BI/FM	UHF 1	UHF 2	UHF 3	SAT
	MHz	47-108	160-254	470-862		950-2150	
Gain	dB±TOL	41 ±2,0		51 ±2,0		45 ±2,0	
Adjustable gain range	dB	20					
Flatness response	dB	±2.0					±3.0 ±1.5 (36 MHz)
Fixed equalization	dB	-					5
Adjustable equalization range	dB	-					7
Output level	dBµV	122 DIN 45004B				120 (IMD <sub>3</sub> - 35 dB)	
		119 (IMD <sub>3</sub> - 60 dB)				110 (IMD <sub>2</sub> - 35 dB)	
		112 (IMD <sub>2</sub> - 60 dB)					

CODE		9040077		
MODEL		CA-720		
Return loss	dB	14		
Chroma - luminance delay	ns	<20		
Noise figure	dB	<10	<9	<10
Output voltage	V~	24 Auto		
	mA	60		
LNB power supply	V~	-		
	mA Tone	+13/+18 350 max 0/22 KHz		
Fuse	V~	250		
	A	1.6		
Mains voltage	V~	230 ±10% 50/60 Hz		
	VA	32		
Operating temperature	°C	-10..+65		
Protection index		IP 50D		
Units per packaging		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

IMD<sub>3</sub> - 35 dB: 2 equal carriers, EN 50083-5  
 IMD<sub>2</sub> - 35 dB: 2 equal carriers, EN 50083-5