

904 BROADBAND AMPLIFIERS

AMP TV-SAT, IF-3XUHF-BIII/DAB-BI/FM



Code : **9040102**

Model : **CA-620**

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. Has two outputs, one with both terrestrial and satellite TV amplified, the other with the terrestrial TV amplified but with the satellite signal from the SAT2 multiplexing input unamplified. 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. To amplify the second satellite polarity, it is necessary to add an external SAT amplifier.

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.

| CODE | | 9040102 | | | | | |
|-------------------------------|--------------------------|--|---------|---------|-------|---------|--|
| MODEL | | CA-620 | | | | | |
| TV System | | AM-TV / DVB-T / FM-TV / DVB-S | | | | | |
| Connection | | F female | | | | | |
| Number of outputs | | 2 | | | | | |
| | Band | TV+SAT | | | TV | | |
| 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 | 37 ±2.0 | | 47 ±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 | dB μ V | 118 DIN 45004B 115 (IMD ₃ -60 dB) 108 (IMD ₂ -60 dB) | | | | | 120 (IMD ₃ -35 dB) 110 (IMD ₂ -35 dB) |
| Return loss | dB | ≥14 | | | | | |
| Chroma - luminance delay | ns | <20 | | | | | |
| Noise figure | dB | <10 | | <9 | | | <10 |
| Output voltage | V \equiv | 24 Auto | | | | | - |
| | mA | 60 | | | | | - |
| LNB power supply | V \equiv mA Tone | - | | | | | +13/+18 350 max 0/22 KHz |
| Fuse | V \sim | 250 | | | | | |
| | A | 1.6 | | | | | |
| Mains voltage | V \sim | 230±10% 50/60 Hz | | | | | |
| | VA | 32 | | | | | |
| Operating temperature | °C | -10..+65 | | | | | |
| Protection index | | IP50D | | | | | |
| Units per packing | | 1 | | | | | |
| Packing weight | Kg | 1.8 | | | | | |
| Packing dimensions | mm | 220 x 200 x 60 | | | | | |