

Strip Amplifiers

MCA-b

Headend



○ Features & Benefits

- Rack Mountable - 1 EIA (1.75") Rack Space
- Accessory AC Outlet
- True Peak Detector AGC with 40 dB Range

The MCA-b is professional quality VHF strip amplifier. The unit is designed to amplify and stabilize the level of a single VHF channel in a headend system. The strip amplifier features a low noise, high gain amplifier with exceptional output capability. A wide AGC window ensures a large dynamic range that provides a stable, quality signal, with low distortion and intermodulation products. The MCA-b employs an adjustable aural carrier trap at the input and an adjacent channel intermodulation trap at the output, permitting adjacent channel operation at high levels without the need for an external sound trap or additional output filtering.

○ Specifications

RF

- Frequency Range MHz: 54-216
- Channels: VHF,FM,CATV
- Output Level dBmV
 - Maximum: 71.0
 - For Adjacent Channel: 66.0
- Output Level Range dB
 - VHF,CATV or UHF: 23
 - FM: 23
- Gain dB
 - VHF, CATV or UHF: 61.0
 - FM: 54.0
- Noise Figure @ Full Gain dB
 - VHF, CATV or UHF: 7.0
 - FM: 7.5
- AGC Range dB
 - VHF, CATV or UHF: 40
 - FM: 40
- AGC Stiffness dB
 - VHF, CATV or UHF: <0.5 (68), <1.0 (59)
 - FM: <1.5 (55)
- Bandpass Flatness dB
 - VHF, CATV or UHF: ± 0.75
 - FM: ± 1.00
- Alternate Channel Rejection dB: -30
- Aural Carrier Trap Range dB: 0-10
- Impedance - All Ports Ohm: 75
- Input Return Loss dB
 - VHF,CATV or UHF: 14
 - FM: 10
- Output Return Loss dB
 - VHF, CATV or UHF - On Channel: 18
 - VHF, CATV or UHF - Off Channel: 18 (>9 MHz)
- FM - On Channel dB: 10
- FM - Off Channel: 14

General

- Power Requirements
 - Voltage VAC: 117, $\pm 10\%$
 - Frequency Hz: 60
- Fuse A: 1/8
- Temperature Range °C: 0 to +50

Mechanical

- Dimensions (WxHxD)
 - in: 19.0 x 1.75 x 4.0
 - mm: 483 x 44 x 102
- Weight
 - lbs: 4.0
 - kg: 1.82

Connectors (Front Panel)

- RF Input: "F" Type Female
- Thru Input: "F" Type Female
- Diplexed Output: "F" Type Female
- Test Port: "F" Type Female

Controls (Front Panel)

- Output Level: Control
- Aural Carrier Trap: Control
- AGC: Control

Indicators(Front Panel)

- Power ON: Neon Bulb

○ Ordering Information

Model	Stock No.	Description
MCA-b	4454 216	Single Channel VHF/FM Strip Amplifier 54-216MHz, Channels: 2-6, FM, 98-99, 14-22, 7-13