

ABI-EV1001S00

Broadband Coax Distribution Amplifier

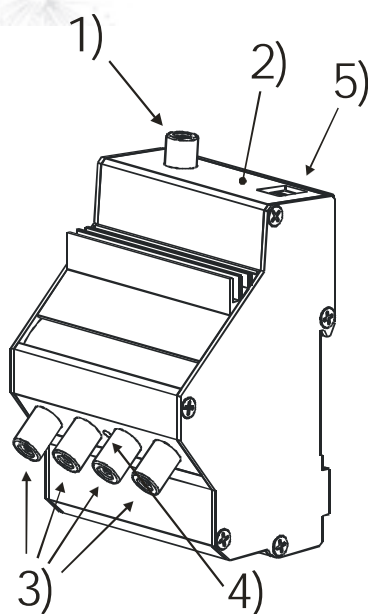
1) Description

Indoor Community Antenna- and Terrestrial TV amplifier for Home & Small Office Networks based on coax cable. DIN-Rail 35 mm compatible aluminium housing with 4 single-ended output ports in F-format.

2) Item Reference numbers

- ABI-EV1001S00 Standard distribution amplifier

3) General View



4) Picture



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- 5) Features: (Numbers refer to general view)
- 1) F-type (IEC61169-24) single ended (Coax) input
 - 2) Fully Shielded aluminium housing DIN-Rail (EN50022) compatible with fan-less cooling design.
 - 3) 4 Equal single ended outputs F-type (IEC61169-24)
 - 4) Power LED
 - 5) Low Power consuming design
 - 6) Community Antenna- and Terrestrial TV distribution over 40m of Coax Network up to 862MHz.
 - 7) Uses Comm. Center 5VDC power supply
 - 8) Supplied with 3 ABI-AX1003S00 75 Ohm terminators

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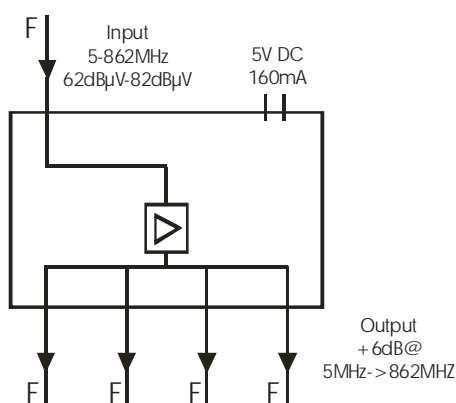
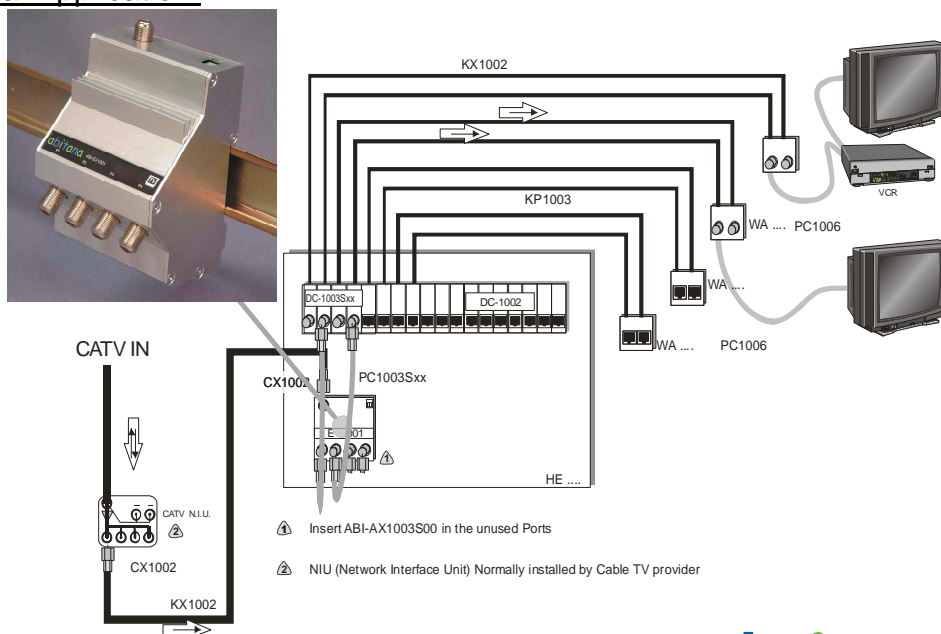


Figure 1: Block Scheme

6) Typical Application:



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7) Technical characteristics

a. Mechanical

Dimensions: Height: 110mm Width: 71.2mm Depth: 65mm

Weight: 190g

Connectors:

- Input: F-Type IEC61169-24
- Output: F-Type IEC61169-24
- Power: Phoenix Contact SMC 3.81

b. Electrical

- Power supply Voltage: 5V DC
- Power Consumption: 0.8 W
- Ambient Operating Temperature: 0°C->40°C

c. Transmission

- Gain of the output ports (See Figure 2)
- Return Loss of the input ports (See Figure 2)

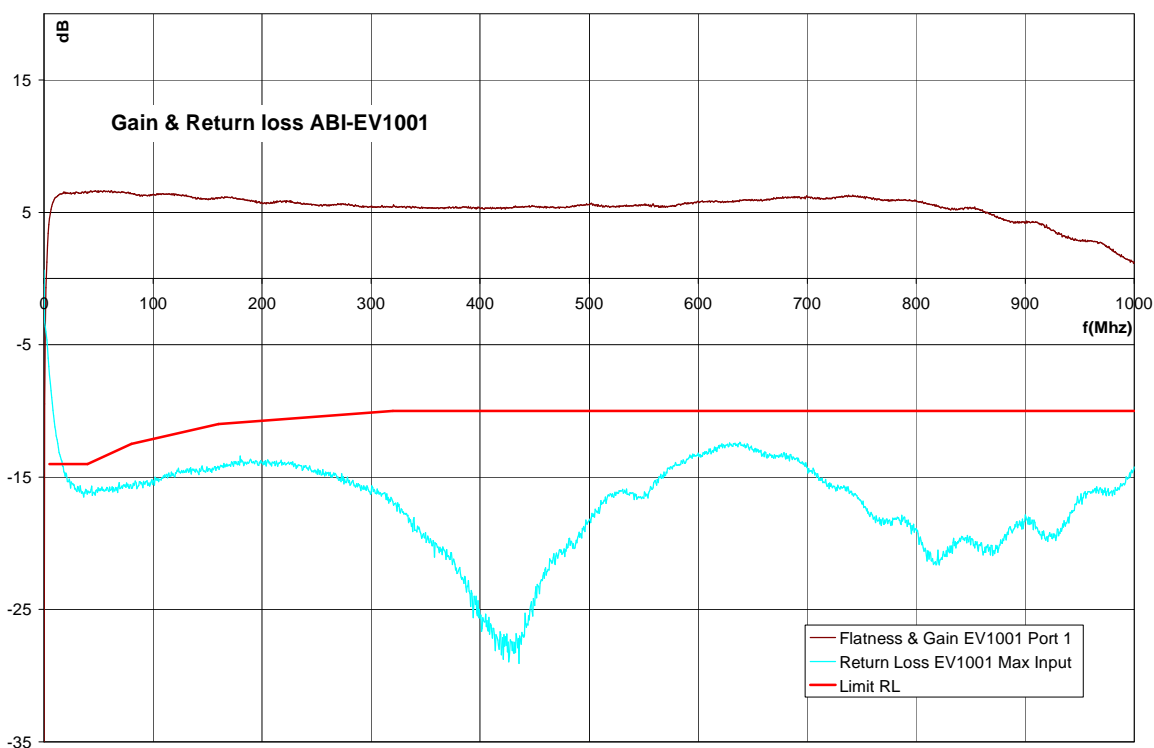


Figure 2: Gain of the 4 Ports, Return Loss of the input port

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- Noise figure: 3.3dB
- 2nd Order distortion products
Measured with 2 carrier method after EN50083-3: 91 dB μ V @ 60dB signal to distortion ratio
- 3rd Order distortion products
Measured with 3 carrier method after EN50083-3: 94 dB μ V @ 60dB signal to distortion ratio
- CSO and CTB tested on a Cenelec 42 Raster (See Figure 3) @ 62dB μ V powerlevel / channel @ the entrance
(Results presented are the wanted and the unwanted signal ratio (intermodulation components) signals expressed in dB
The red Line is the 60dB level difference limit)

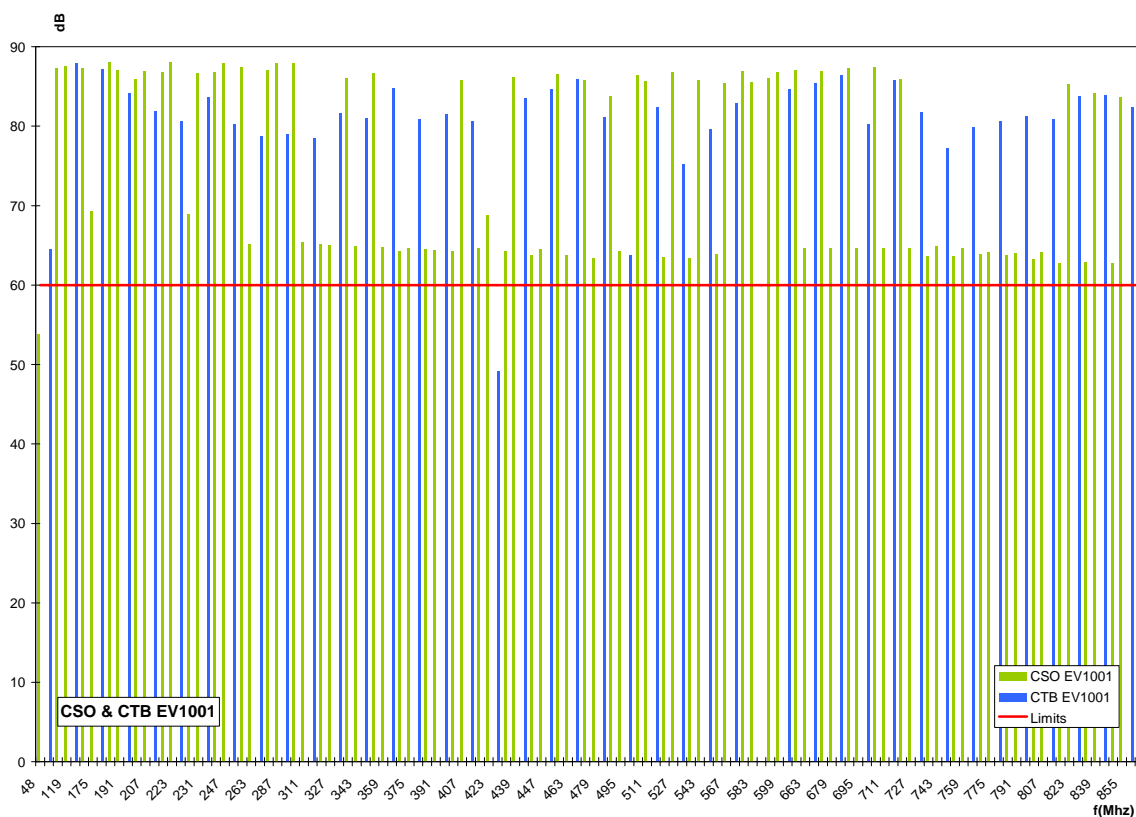


Figure 3: CTB and CSO

8) Package-Labeling
T.B.D.