

ABI-EV1002S00

Broadband Balanced Distribution Amplifier

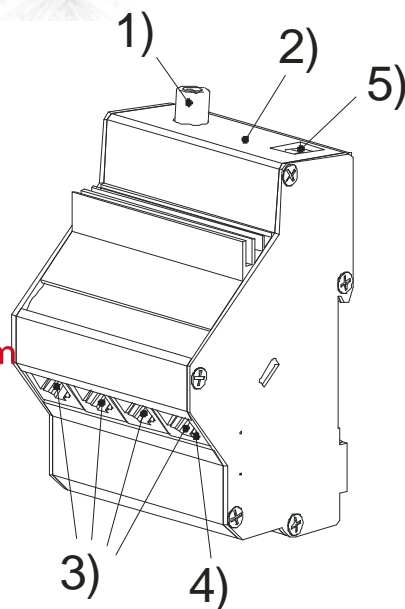
1) Description

Indoor Community Antenna- and Terrestrial TV amplifier for Home & Small Office Networks based on Shielded Twisted Pair. DIN-Rail 35 mm compatible aluminium housing with 4 balanced output ports in RJ45 format.

2) Item Reference numbers

- ABI-EV1002S00 Standard distribution amplifier

3) General View



ARCHIVED

look for alternatives on
www.abitanadirect.com
or contact info@abitana.com

4) Picture



abitana

www.abitana.com

ABI-EV1002S00

Broadband Balanced Distribution Amplifier

- 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 Balanced outputs shielded RJ45 type (IEC60603-7) on Pins 7&8
 - 4) Input level detection LED and adjustable gain
 - 5) Low Power consuming design
 - 6) Balanced Community Antenna- and Terrestrial TV distribution over 35m of Shielded Twisted pair Network up to 862MHz.
 - 7) Uses Comm. Center 5VDC power supply
 - 8) Supplied with 3 ABI-AP1003S00 100 Ohm terminators

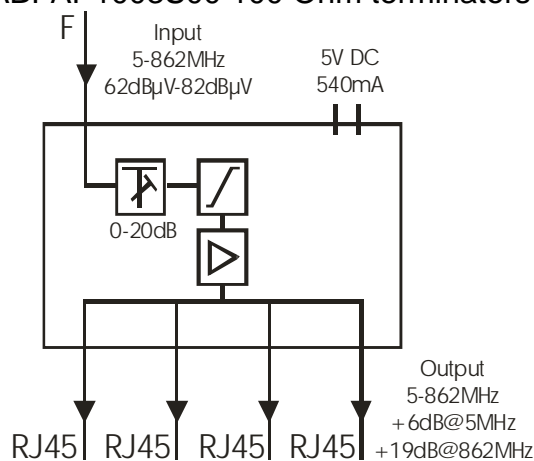
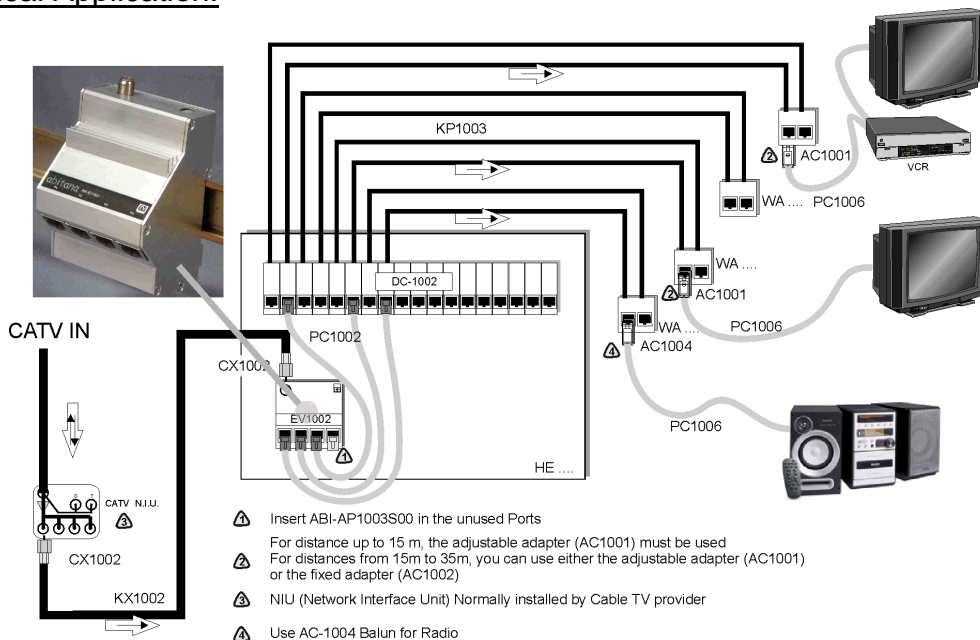


Figure 1: Block Scheme

6) Typical Application:



abitana

www.abitana.com

ABI-EV1002S00

Broadband Balanced Distribution Amplifier

7) Technical characteristics

a. Mechanical

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

Weight: 190g

Connectors:

- Input: F-Type IEC61169-24
- Output: RJ45 Shielded jacks IEC60603-7
- Power: Phoenix Contact SMC 3.81

b. Electrical

- Power supply Voltage: 5V DC
- Power Consumption: 2.7 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)
- Gain after 35m ABI-KP1003S00 (See Figure 2)

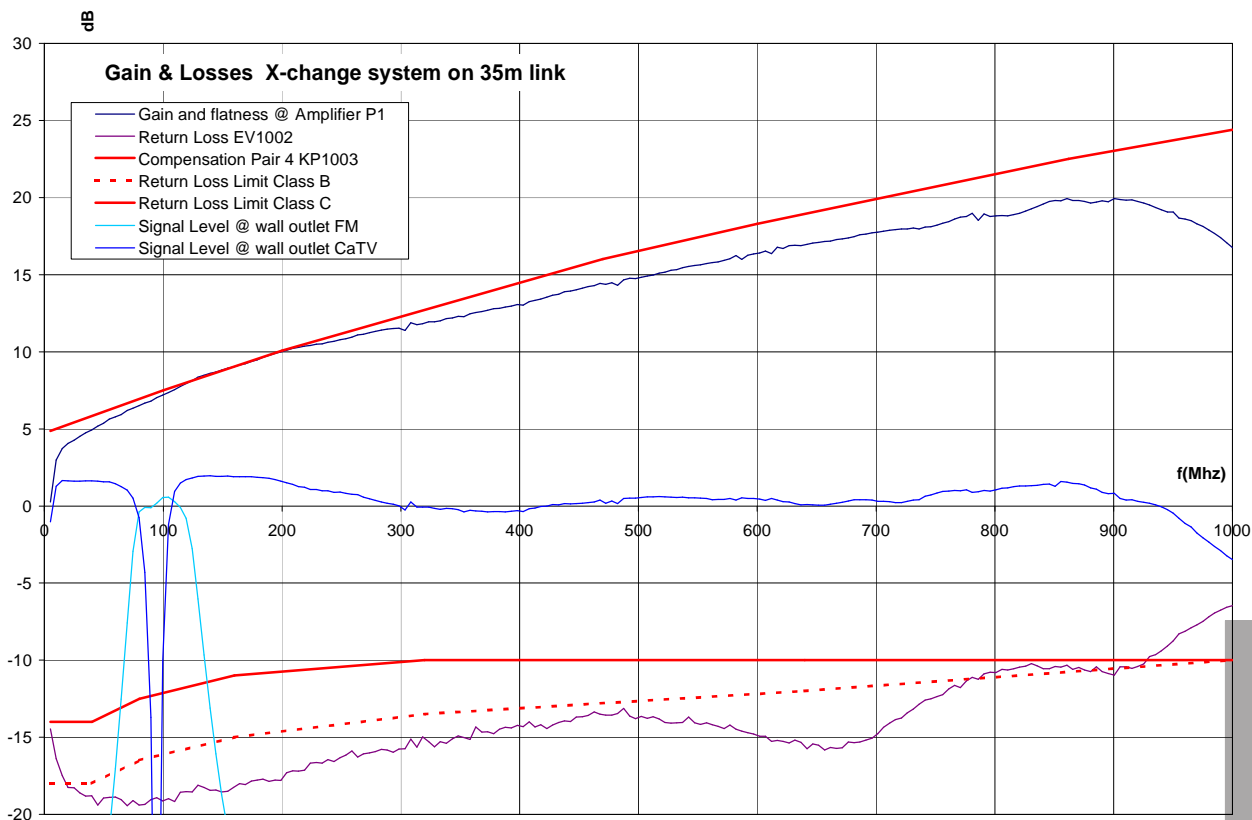


Figure 2: Gain of the 4 Ports, Return Loss of the input port, Gain after 35m

abitana

www.abitana.com

ABI-EV1002S00

Broadband Balanced Distribution Amplifier

- Noise figure: 4.3dB
- 2nd Order distortion products
Measured with 2 carrier method after EN50083-3: *86.3dB μ V @ 60dB signal to distortion ratio*
- 3rd Order distortion products
Measured with 3 carrier method after EN50083-3: *99dB 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)

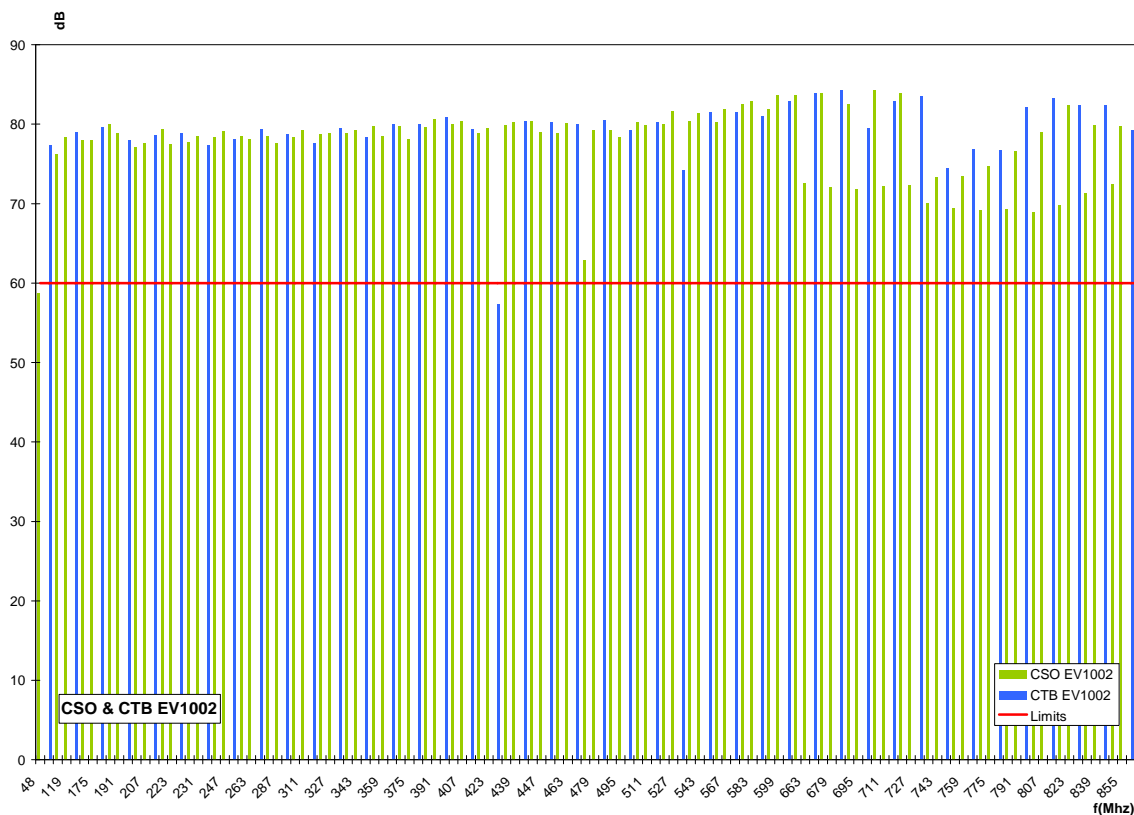


Figure 3: CTB and CSO

- Outlet Isolation: min: 20dB

8) Package-Labeling

T.B.D.

abitana

www.abitana.com