

## CATV AP9xx trunk amplifiers

AP9xx-line broadband trunk amplifiers are designed especially for cable-TV networks.

### Key features:

- High output level 120dB $\mu$ V
- Adjustable tilt and gain
- Test point -20dB
- Rugged aluminium case



### Application areas:

- CATV/MATV networks

### Product description:

AP940E8, AP933E, AP925E are *Push-Pull* type amplifiers. AP9xx-line amplifiers are created for cable-TV networks. AP9xx can be used both as trunk and as house amplification unit.

Due to that fact, the amplifier output stage is based upon CATV hybrid module from Philips, AP9xx can withstand high level output signal. AP940E8 is equipped with additional interstage tilt 8dB, which allows increasing of output signal still more, up to 2dB. Gain and tilt can be smoothly adjusted in the range 0-20dB.

The separate test point allows measurement of signal level without disconnection from main trunk.

### Technical specifications:

|   | AP940E8   | AP933E    | AP925E    |
|---|-----------|-----------|-----------|
| Frequency range [MHz]                       | 47...862  | 47...862  | 47...862  |
| Gain [dB]                                   | 40        | 33        | 25        |
| Gain adjust range [dB]                      | 20        | 20        | 20        |
| Slope adjust range [dB]                     | 20        | 20        | 20        |
| Interstage tilt [dB]                        | 8         | -         | -         |
| Flatness [dB]                               | $\pm 0,6$ | $\pm 0,6$ | $\pm 0,6$ |
| Noise figure [dB]                           | 6,5       | 8         | 8         |
| Test point [dB]                             | -20       | -20       | -20       |
| Max. output level<br>DIN45004B [dB $\mu$ V] | 120       | 120       | 120       |
| Supply voltage/current [V/mA]               | 28/300    | 28/300    | 28/300    |

- On order the amplifiers with passive return path are available.

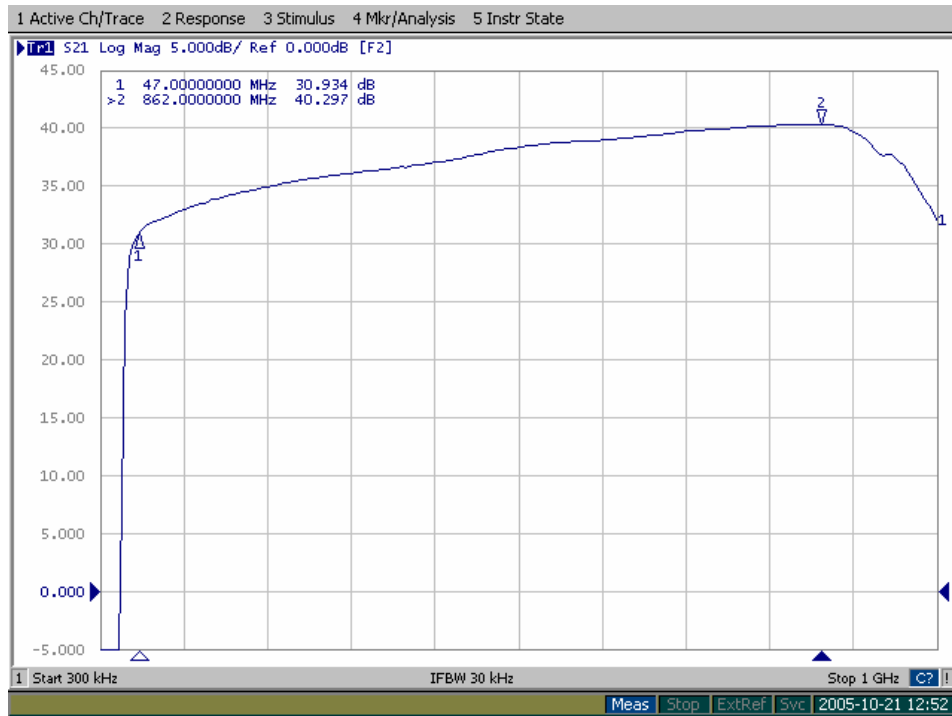


Figure 1. AP940E8 transfer function S21, interstage tilt 8dB

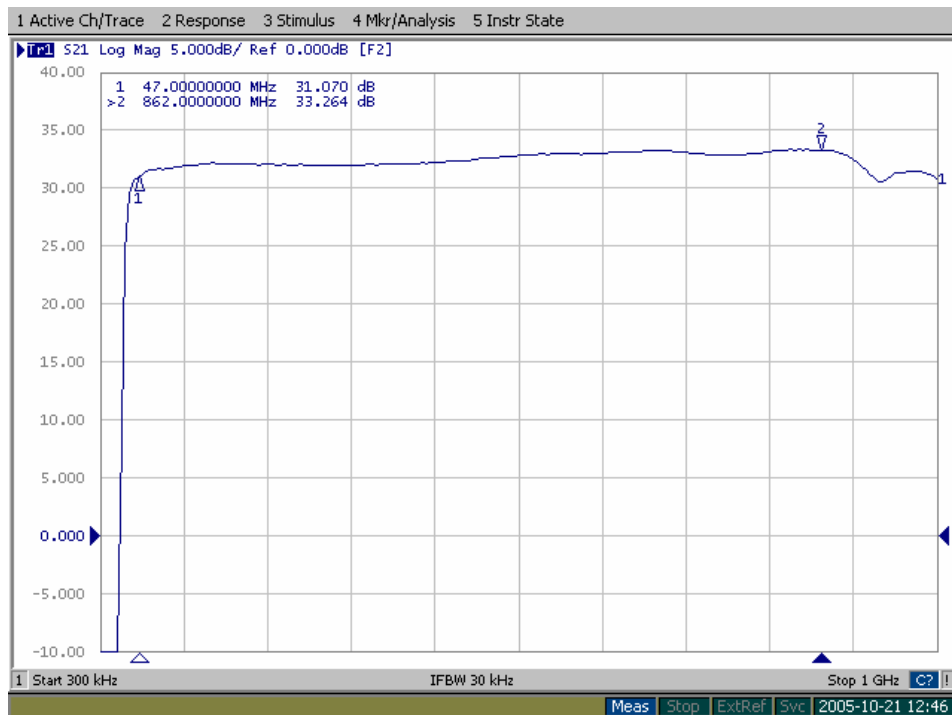


Figure 2. AP933E transfer function S21.