

AAVA-II (Accuphase Analog Vari-gain Amplifier) type volume control

AAVA-II (Accuphase Analog Vari-gain Amplifier) is a novel volume control concept that completely does away with variable resistors in the signal path. Because the music signal does not have to pass through such devices, there is no adverse influence from changes in impedance. This means that the outstanding S/N ratio and low distortion of the amplifier are not compromised in any way, and the same superb sound quality will be obtained at any volume setting.

- **AAVA-II input stage employs current feedback principle that ensures high-speed, low-noise operation and assures excellent characteristics at high output voltages.**

- **Volume control resolution**

The listening volume is adjusted by a combination of 16 V-I converters. The number of possible volume steps is 2 to the power of 16 = 65,536, as determined by current switches.

- **AAVA-II circuitry is deceptively simple**

Because AAVA-II employs circuitry that is electrically very simple, long-term reliability is excellent, with performance and sound

quality that will remain unchanged also after prolonged use.

- **AAVA-II means analog processing**

The AAVA-II circuit converts the music signal from a voltage into a current, to allow control by current switches, and then back into a voltage. The entire process is carried out in the analog domain.

- **No more left/right tracking differences or crosstalk**

Because AAVA-II is an electronic circuit employing only fixed-value resistors, there is virtually no left/right tracking error also at low volume levels, and crosstalk also does not present a problem.

- **AAVA-II maintains high S/N ratio and uniform frequency response**

Because AAVA-II does not introduce any change in impedance, there is no deterioration of S/N ratio or alteration of frequency response. Changing the volume with AAVA does not mean introducing noise or otherwise degrading the sound quality of the amplifier.

- **Control knob gives same operation feel as with a conventional high-quality volume control.**

- **Attenuator and balance control also implemented by AAVA-II**