XVR1 CROSSOVER

The XVR1 electronic crossover network is the result of several years research into the actual needs of loudspeaker designers. It is a stereo two-way biamplification network which can be combined with additional networks to form either simple or very complex crossover networks with virtually unlimited adjustability of filter characteristics. Each high and low pass filter is user configurable as 6, 12, 18, or 24 dB per octave slope, and each "pole" of the four slope settings is independently adjustable from 22 Hz to 18,000 Hz.

In addition, there are two independent Q (sharpness) controls for each filter. This gives something like 28 million possible settings per filter. Not all of these settings will be useful, but the circuit can be used to achieve just about any setting worth imagining, and allows flexibility and performance greatly beyond what has been previously available.

The discrete circuitry for every stage consists of matched low noise JFETs driving bipolar output transistors, all biased single-ended with constant current sources. The crossover features balanced and unbalanced inputs and outputs, and individual level controls for each channel's high and low pass outputs.

The XVR1 uses an external power supply which is designed to power two crossover chassis, suitable for a three way system. It is expandable beyond this with additional power supplies and crossover units.

Pass Labs, PO Box 219, Foresthill, CA 95631, Tel: 530.367.3690, Fax: 530.367.2193, www.passlabs.com