

215L Sweepable Filter

Features

- ▶ Wide range 6 dB per octave LOPASS control
- ▶ Wide range 12 dB per octave HIPASS control
- ▶ Balanced input stage
- ▶ Passive filter design for smooth tone
- ▶ Unity gain throughout
- ▶ Hard Wire BYPASS switch
- ▶ Transformer Coupled Output to +28 dBu
- ▶ All Discrete Design



The API 215L is a unique passive, sweepable filter, designed specifically to contour the sound in such a way that it sounds natural and seems as if it “*always sounded that way*”. Its extreme flexibility, repeatable settings and superb sound make it ideal for all studio, live sound and broadcast applications.

The 215L design is a passive low pass filter with a slope of only 6 dB per octave, and a passive dual high pass filter with a slope of 12 dB per octave. The filters are isolated from each other with the same discrete transistor buffer used in the famous 550 series equalizers. This minimizes interaction between the filters, as well as providing a low impedance source for the filter following the buffer.

The input section is a balanced circuit using the API 2510 all discrete op-amp, minimizing the loading effect on any device plugged into it. The output stage is a transformer balanced output, driven by the all discrete API 2520 op-amp.

The filters are both continuously adjustable, with a range from 20 Hz to 20KHz in two bands. The low pass filter has a range from 500 Hz to 20KHz, and the high pass filter has a range from 20 Hz to 600Hz. This covers a broad range of frequencies throughout the entire audio spectrum.

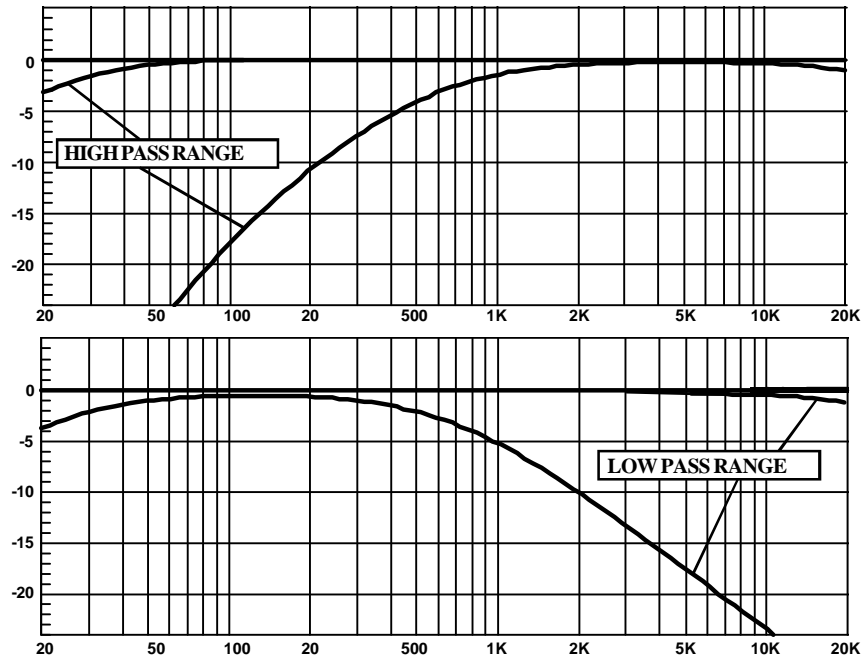
Because of the subtle nature of the 215L filter, it finds a home with uses like rolling off the low end of a hi-hat, where a natural sound is desired, not the usual "phase-shifter" sound of a 18 to 24 dB per octave filter found on most consoles. It can also be used to thin out room mics, without a complete loss of low end, again, resulting from steep filter circuits.

The 215L can be used in the Legacy Series Consoles or in the L200 Rack.

The 215L Filter makes use of the 2520 and 2510 Op-amps and therefore exhibits the reliability, long life and uniformity which are characteristic of API products.

215L Features

This graph shows the family of curves for each of the passive sweepable filters



215L Specifications

Number of Bands: Two

Filter Type: Passive Sweepable Shelf

Filter Frequency Centers:

Low Pass: 500 to 20KHz

High Pass: 20 to 600Hz

Input Impedance: >20K Ohms, Balanced

Output Impedance: 85 Ohms, Transformer coupled, Balanced

Nominal Levels: -15 dBu to +15 dBu

Clipping Level: +28 dBu

Frequency Response: 0, -.3, 30 to 20kHz

Noise: 98 dB below +10 dBm output, unweighted.
20-20 kHz

Distortion: THD: .02% (+4dB @ 2K)

Connectors: .100 spaced ELCO

Size: 1.25" X 2.65" X 6" Deep

Shipping/Actual Weight: 1.5Lb/1Lbs

Power Consumption: ±16 Volts DC, 60mA max
at +24 dBu out

Rack Frame and Power Supply Options: Fits 200H (4 slot, internal power supply), L200 Rack (12 slot and requires API 200PS Power Supply, and API Legacy Consoles.

Mounting Frame and Power Supply Options

L200

Twelve Slot Rack



L200PS

Power Supply

200H

Four Slot Rack



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