1

MULTI-MODE PARAMETRIC EQUALIZER

Frequency Response Curves

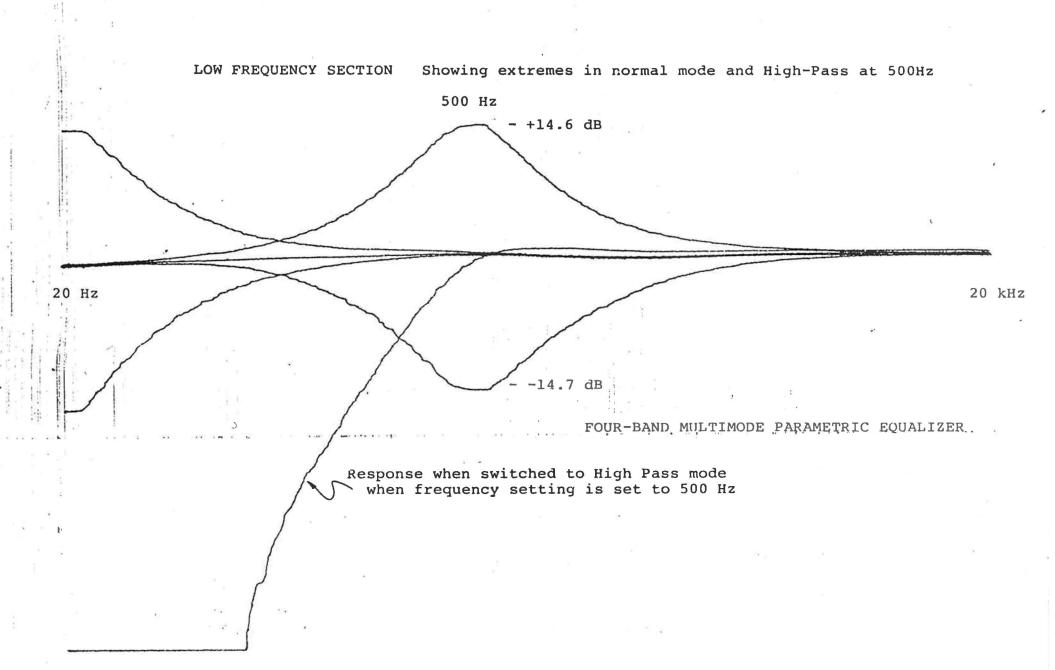
The graphs on the following pages show the frequency response of NEGTEK's four-band parametric equalizer. The following points should be kept in mind.

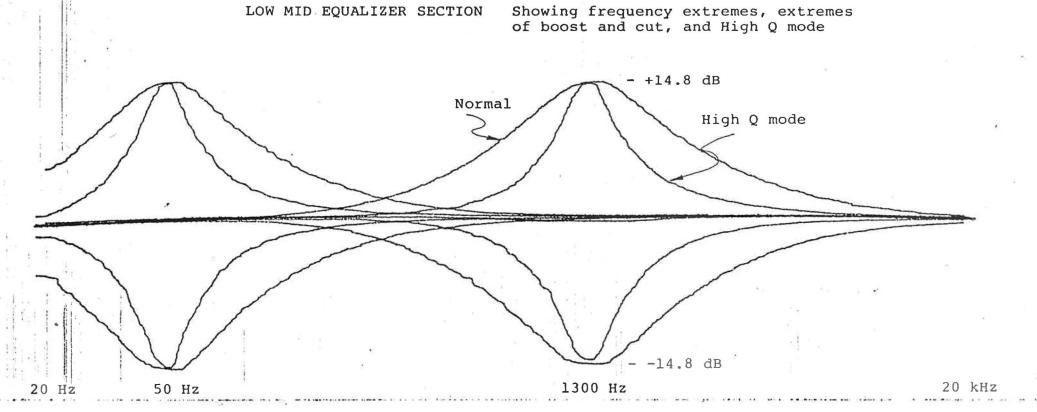
The graphs were produced by an automatic plotter and have the standard axes of log frequency from 20Hz to 20kHz horizontally and log amplitude response (dB) on the vertical axis.

The data were obtained from a standard production module and the test signal was passed through all sections of the equalizer fro each measurement, even though only a single section was adjusted to its extreme settings to obtain each set of curves.

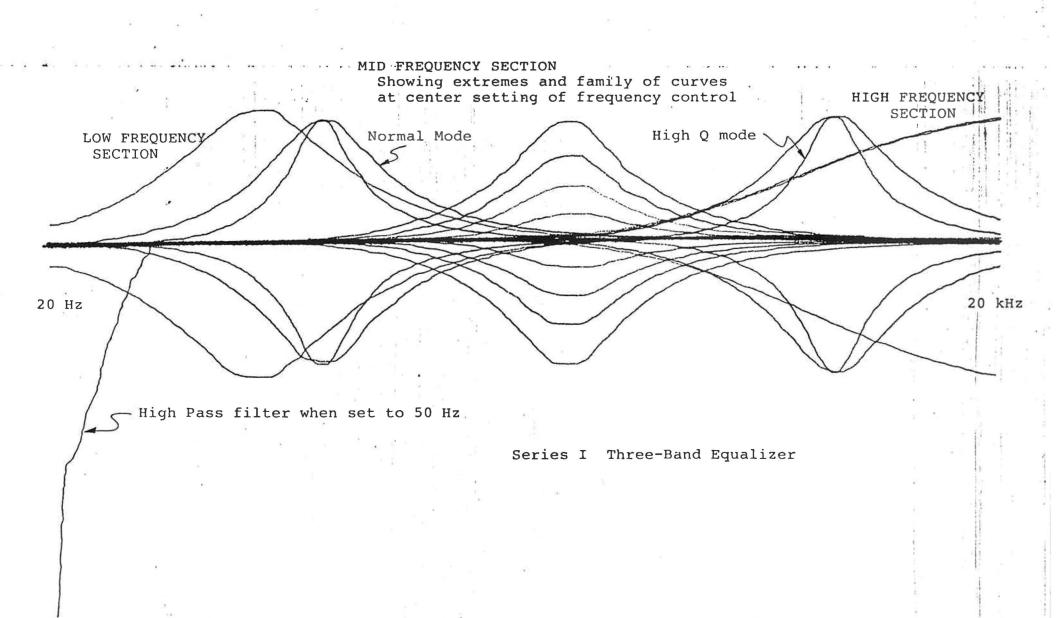
The minor aberrations of the curves, such as the squiggly lines, are artificats of the test equipment and have not been cosmetically cleaned up for this presentation.

The proprietary implementation of state-variable filter topology which NEOTEK has developed yields an equalizer which is remarkably free of problems; in fact, its response curves are essentially perfect and are uniquely so among audio console equalizers. In examining the curves, note that the boost and cut settings produce responses that are exactly symmetrical. Noth that the high frequency side and low frequency side of the bcost/cut curves are mirror images, and that they remain so as the bands are tuned to their extreme settings. Note that changing the frequency settings between extremes causes no change in the bandwidth or amplitude response characteristics, ie, there is no interaction of these parameters. Nothe that switching to alternate modes (high pass, high Q, or shelf response) also causes no interaction in either the frequency or the amplitude parameters. Note that there are no anomalies at the high or low frequency extremes of any of the curves; this is an indication of more than adequate bandwidth capability throughout the entire equalizer and show that the equalizer will cause no distortions due to limited bandwidth capability.



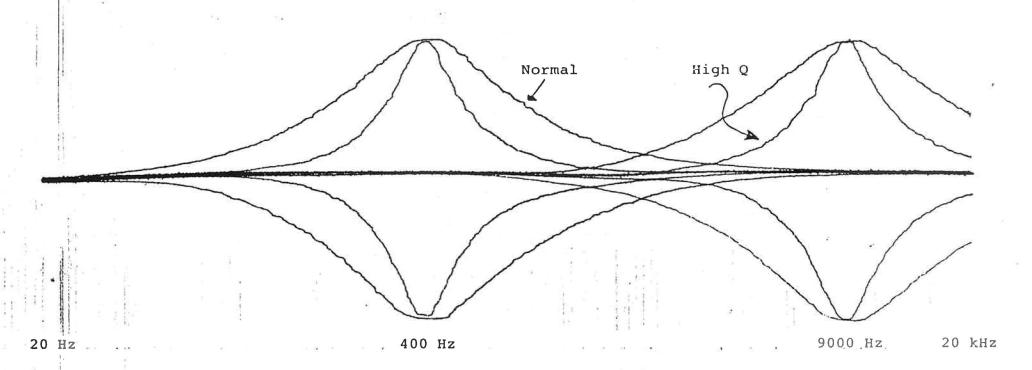


FOUR-BAND MULTIMODE PARAMETRIC EQUALIZER



UPPER MID FREQUENCY SECTION

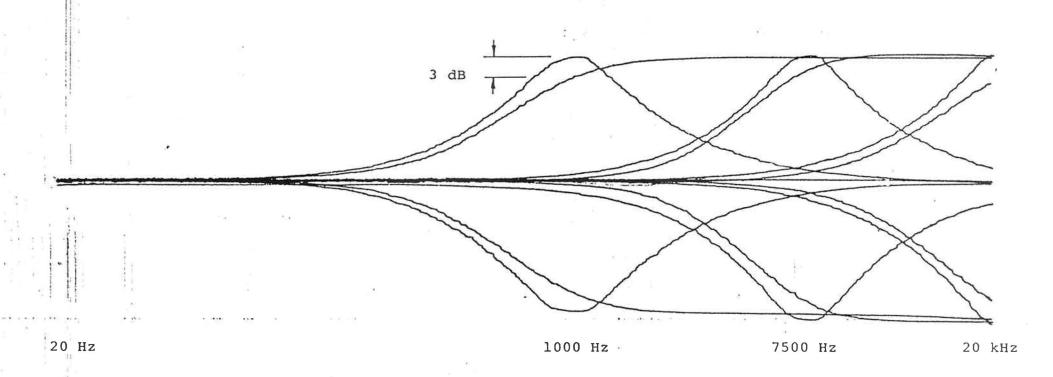
Showing frequency extremes, extremes of boost and cut, and High Q mode



FOUR-BAND MULTIMODE PARAMETRIC EQUALIZER

HIGH FREQUENCY SECTION SI

Showing extremes of frequency settings and switching to Shelving mode



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