

ELECTRODYNE
AUDIO tm

2511 EQTM



Owner's Manual

WARRANTY:

One Year Internal Parts Warranty and a 30-Day Limited Labor Warranty.

Your Warranty begins on the date of purchase. To activate your Warranty, please fill out and mail the Warranty Card to:

Pete's Place Audio
P.O. Box 4255
West Hills, CA 91304
U.S.A.

Also, your name may be placed on our mailing list for future updates and new product announcements (unless otherwise requested).

Pete's Place Audio reserves the right to make improvements and/or changes to this product at any time.

Your Warranty Is Void If:

1. This product has been opened by unauthorized personnel.
2. The product serial numbers have been removed or tampered.
3. The product has been damaged by misuse or abuse.
4. Modified and/or repaired by unauthorized personnel.

There Are No User Serviceable Parts Inside.

Pete's Place Audio warrants that our hardware conforms substantially to the specifications contained in this manual. When used in accordance these specifications, Pete's Place Audio warrants for a period of one year from the date of purchase to the original purchaser if purchased from Pete's Place or its authorized dealers. In the case of a valid warranty claim, your sole and exclusive remedy is Pete's Place. Pete's Place Audio entire liability under any theory of liability will be, at its option, to repair or replace the product without charge or, if not possible, to refund the purchase price to you. This warranty is not transferable and applies only to the original purchaser of this product.

For warranty service contact Pete's Place Audio at 818-716-4153 to obtain a Return Merchandise Authorization (RMA) number. After obtaining the RMA number, ship defective product to Pete's Place Audio, P.O. Box 4255, West Hills, CA 91304. Write the RMA number on the outside of the shipping box. Be sure to include your name, address and phone number with a copy of original sales invoice and detailed description of the problem. Pete's Place Audio will not accept responsibility for loss or damage in shipping.

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Pete's Place Audio

Introduces the Electrodyne 2511 Dual Mono 2 Band Equalizer

Electrodyne 2511 two-band inductor EQ:

The Electrodyne 2511 is a classic two-band discrete transistor reciprocal active inductor equalizer, which was first introduced in 1970. Smooth performance and eq response from full-cut to full-boost on all frequencies, providing unusually broad sonic and tonal options not experienced in a console quality eq in decades. The sonically critical custom inductors and output transformers are still made by Electrodyne's original US parts manufacturer to strict tolerances as small as 2%. This allows consistent eq response and repeatable tone from channel-to-channel, with variations of less than 1/4db over full bandwidth. A nearly impossible feat when these eq's were first built.

You will have the peace of mind knowing that the 2511 eq is NOT a recreation and NOT a clone. Electrodyne Audio is still the same company that produced groundbreaking audio consoles and recording equipment in the 1960's and 1970's. We are 100% back in operation and here to stay. We build with the same quality and attention to detail that developed our reputation, and continue to manufacture, right here, in California.

All current designs are built following actual original Electrodyne proprietary factory lab and engineering notes. And we have even gone to the trouble to have the designs reviewed and approved by original Electrodyne engineering staff for accuracy and adherence to company design criteria.

The Electrodyne Audio engineering staff is always striving to improve performance and design new and unique products for the industry. Thank you for your purchase. Your comments are always appreciated.

Features

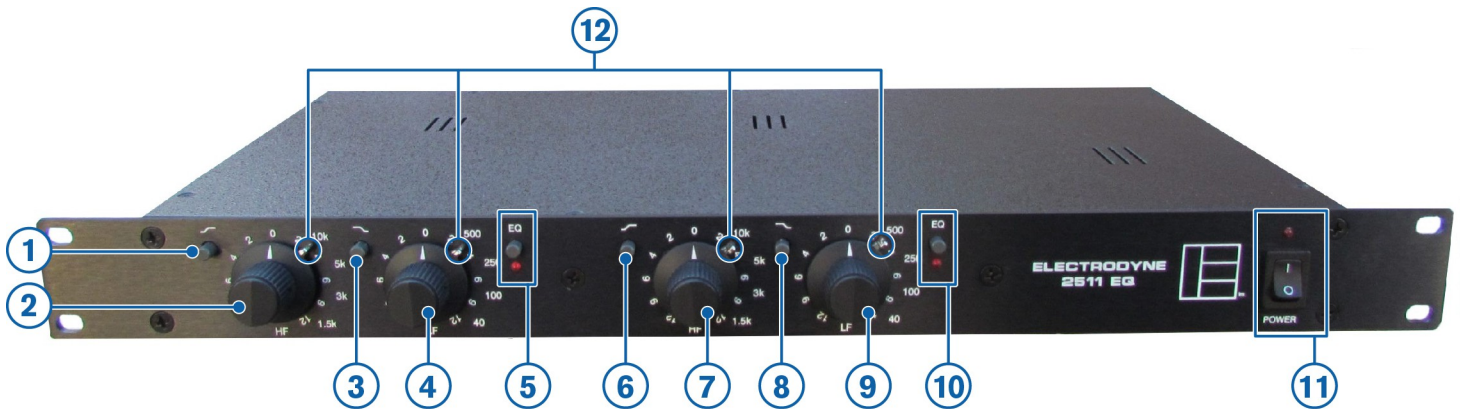
- All discrete transistor design
- Custom wound Output Transformers (original manufacturer)
- Custom wound eq Inductors (original manufacturer)
- Custom concentric gain/frequency switches (mil-spec quality)
- Original design knobs and control levers (original manufacturer)
- Rugged powder coated steel chassis
- Heavy-gauge Anodized Aluminum Face Plate
- All XLR I/O
- Active balanced discrete transistor input
- Transformer balanced output
- Individual Low and High Shelving Switches per band for each channel
- Each eq band network is completely bypassed when its gain control is placed at the “0” mark
- On/Off Power Switch
- Red LED Power Indicator

TECHNICAL DATA

- Input: Active balanced discrete transistor impedance converter.
- Output: Custom wound large format multifilar transformer
- Output impedance: 600 ohms
- +/-12 db gain range: Equalize or Attenuate
- 4 frequencies selectable per band. LF: 40, 100, 250, 500hz. HF: 1.5k, 3k, 5k, 10k.
- Peak/Shelf sw each band: Shelving at all frequencies, Peaking: 250, 500 (LF), 1.5k, 3k and 5k (HF).
Distortion: 0.03%typical.
- The Peaking and Shelving filters on the Electrodyne 511 and dual channel rackmount 2511 eq are active inductor/capacitor (L/C), reciprocal, fixed-Q type. We made Q calculations based on the actual Audio Precision sweeps of our production reference units and the results are as follows:
 - Peaking:
 - HF peaking Q = .35
 - LF peaking Q = .7
 - Q values are averaged across all peaking frequencies for each band.
 - Shelving:
 - HF slope approx. 3dB/ oct
 - LF slope approx. 4dB/ oct
 - HF characteristics: Flat shelf to over 200 khz at all frequencies (see frequency graphs – Appendices A-D).
 - LF Characteristics: Shelf rolls back 3dB at 9hz, at all frequencies to avoid sub-sonic overload issues with downstream recording equipment (see frequency graphs – Appendices A-D).
- Maximum output: +30dbu at less than 0.8%thd, +29.5dbu at 0.06%thd. (measured with +/-16v power rails).
- Frequency response: +/- 0.25db, <10hz to >70khz typical (no filters engaged).
- Signal to noise: -85db typ.

In line with our company policy of continuous development, the above specifications are subject to change without notice.

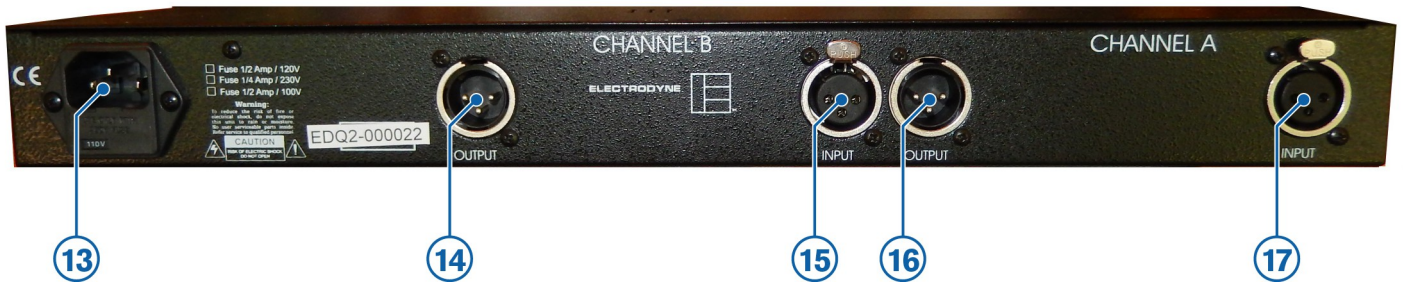
Front Panel



- 1** Shelving Low Freq
- 2** Cut and Boost Lows
- 3** Shelving High Freq
- 4** Cut and Boost Highs
- 5** Hard By-pass
- 6** Shelving Low Freq
- 7** Cut and Boost Lows
- 8** Shelving High Freq
- 9** Cut and Boost Highs
- 10** Hard By-pass
- 11** Power Switch and Red LED Power Indicator
- 12** Frequency Selectors

Functions (continued)

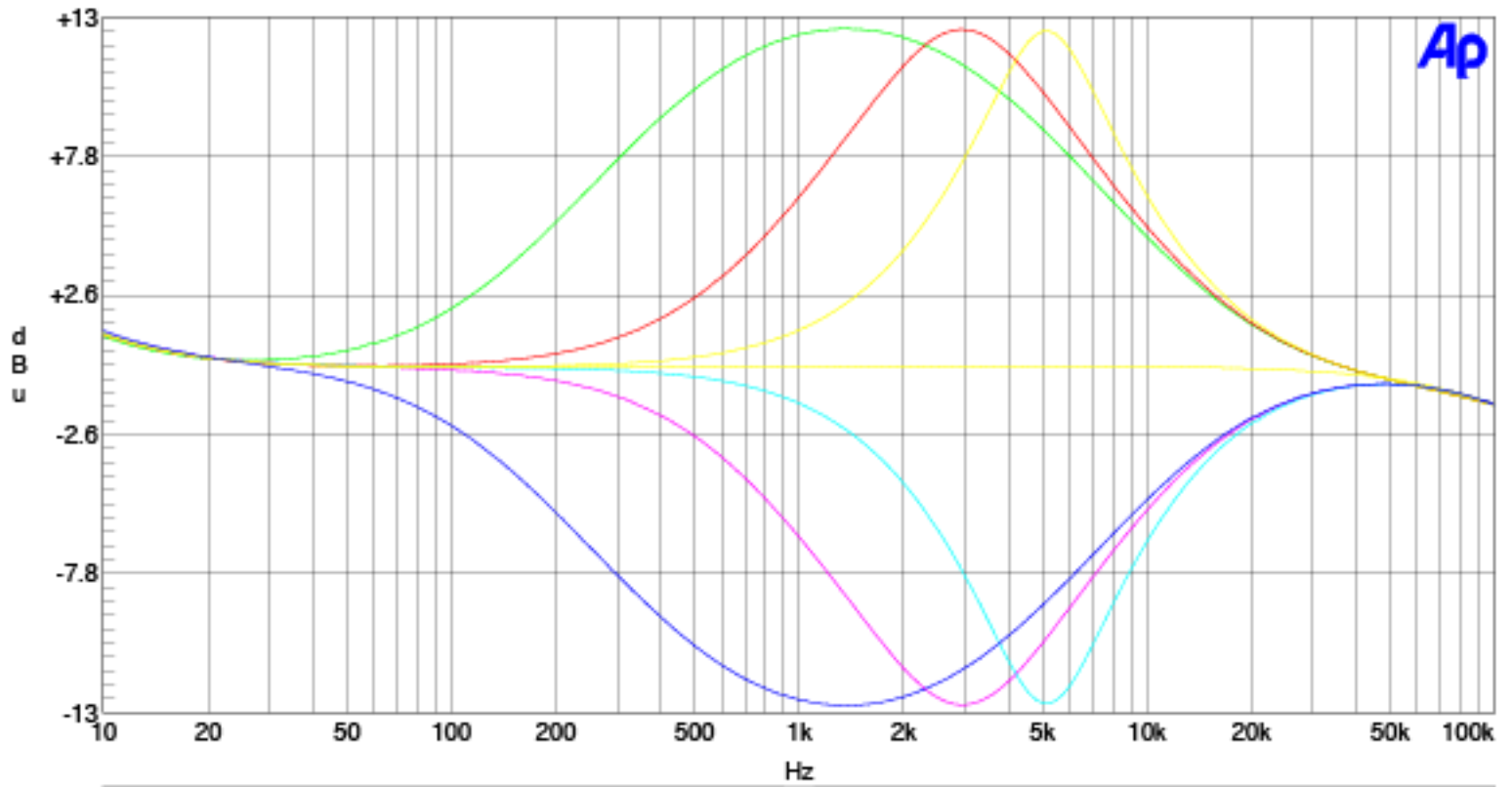
Rear Panel



- 13** Power Supply Connector
- 14** Balanced XLR Output, Channel B
- 15** Balanced XLR Input, Channel B
- 16** Balanced XLR Output, Channel A
- 17** Balanced XLR Input, Channel A

High Frequency Peak

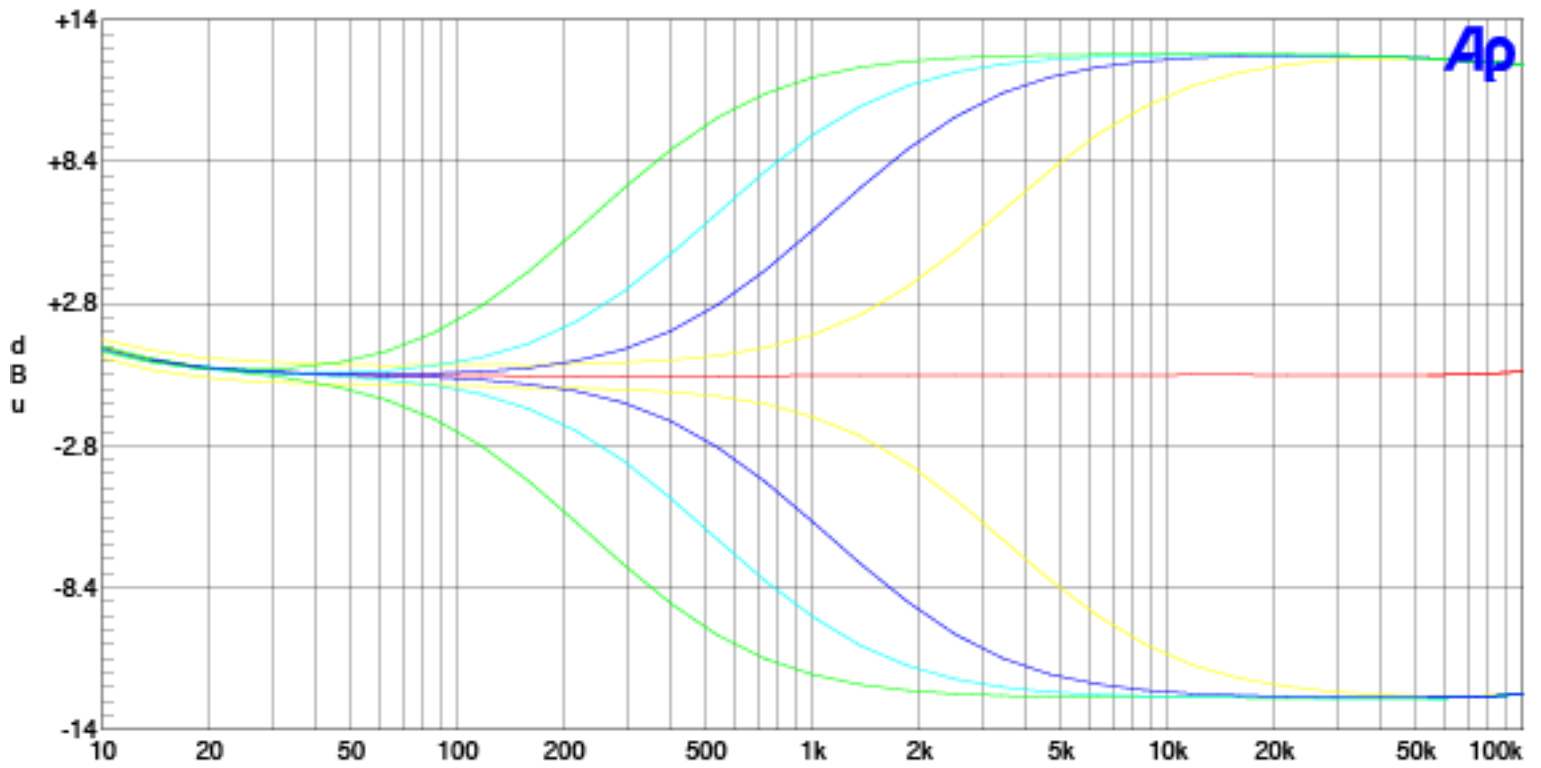
www.electrodyneaudio.com



Electrodyne 511 / 2511 HF peak curves. Full boost/cut at 1.5k, 3k, 5kHz

High Frequency Shelf

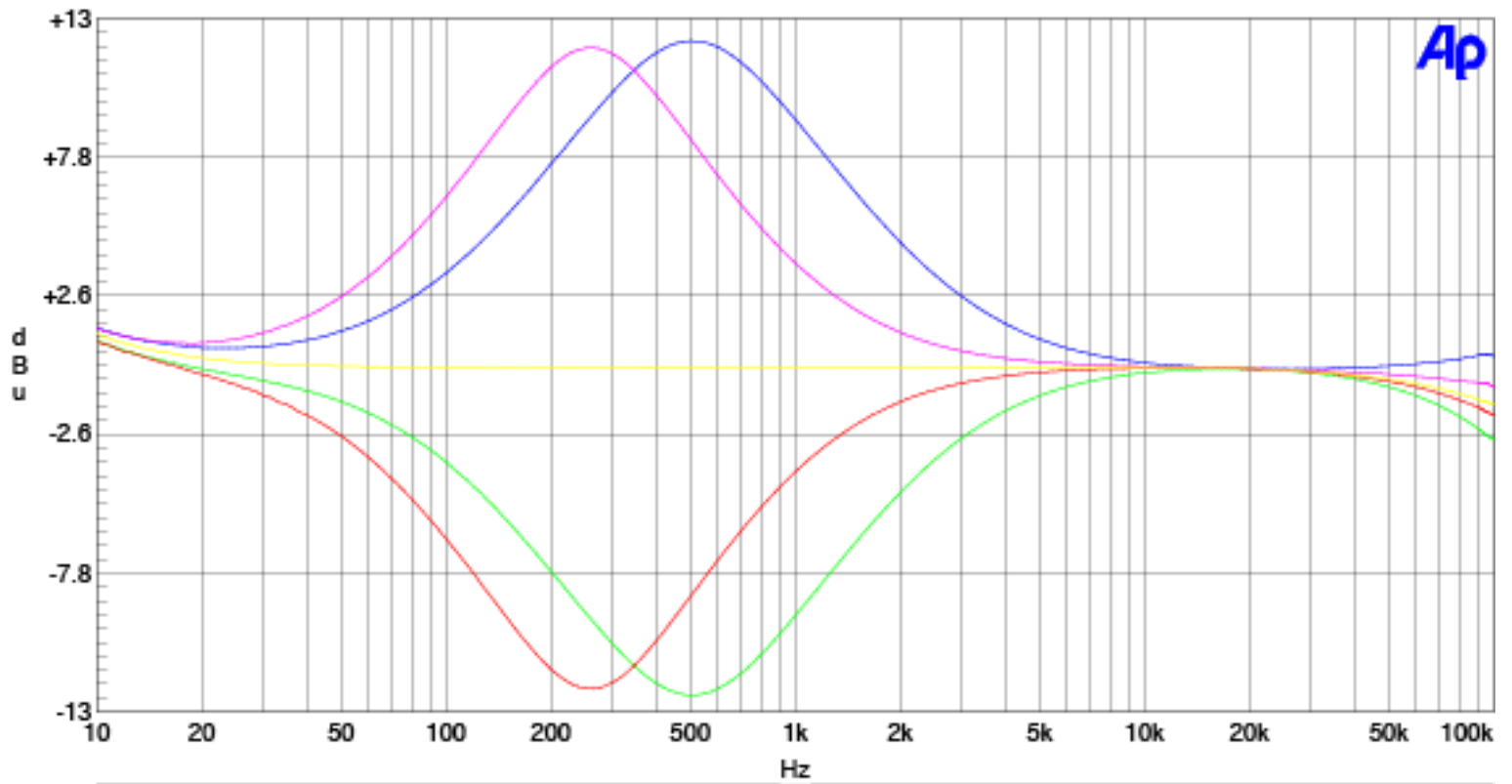
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Electrodyne 511 / 2511 HF shelf curves. Full boost/cut at 1.5k, 3k, 5k, 10k.

Low Frequency Peak

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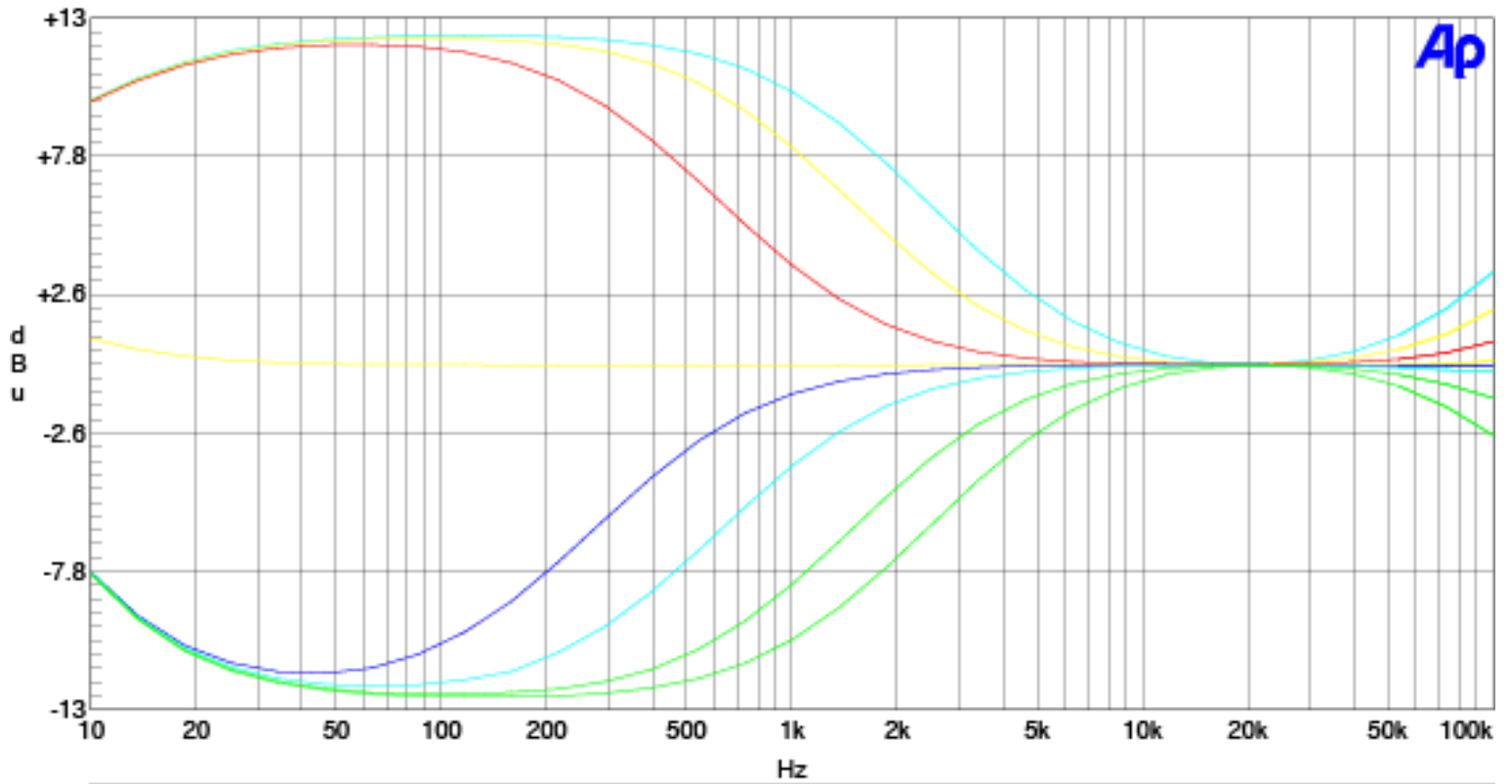


Electrodyne 511 / 2511 LF peak curves. Full boost/cut at 250, 500hz

Appendix D

Low Frequency Shelf

www.electrodyneaudio.com



Electrodyne 511 / 2511 LF shelf curves. Full boost/cut at 40, 100, 250, 500hz



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