

## **Multiple Receivers - Sorting out Audio Issues**

I published a construction article in the November 2019 publication of Practical Wireless Magazine.

Electronic viewing of the magazine, as part of a subscription, is here: <https://pocketmags.com/eu/practical-wireless-magazine>

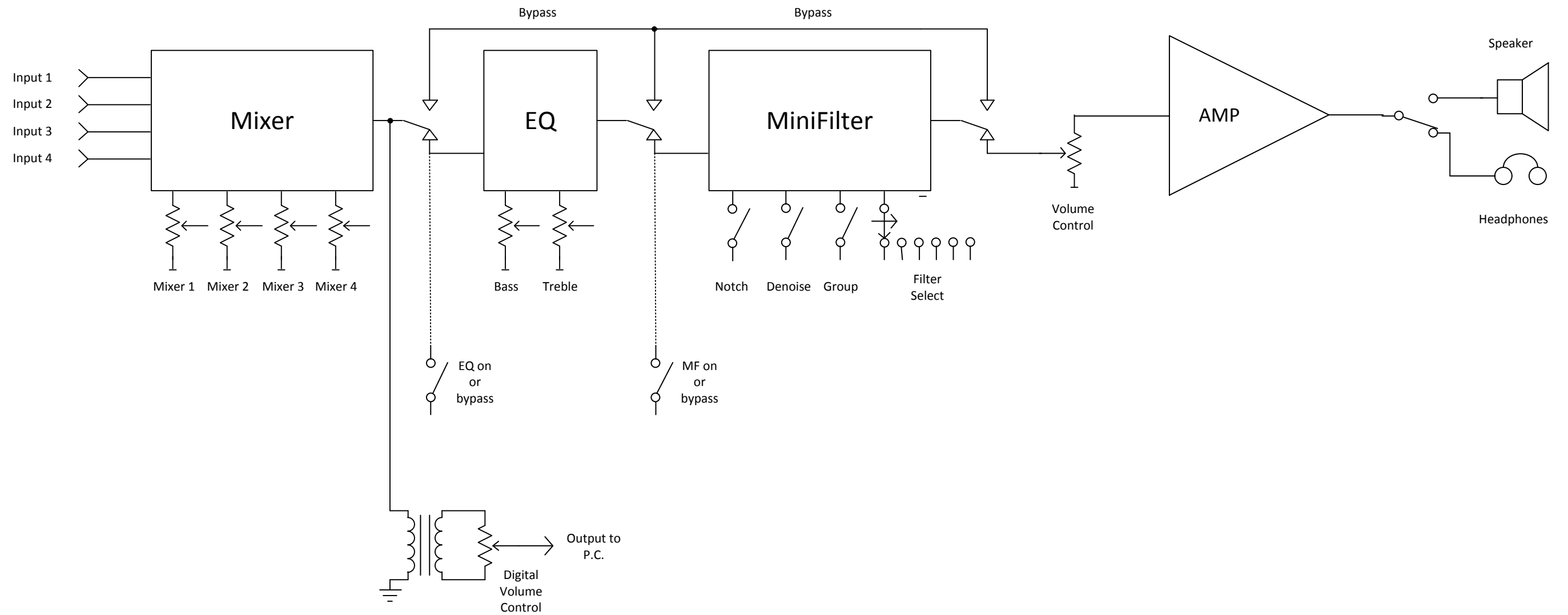
As necessitated by space constraints the block and circuit diagrams in the article might be a little small for some readers wanting to duplicate or get some ideas from my work.

The original circuit diagrams also contain addition information on components that might be of use.

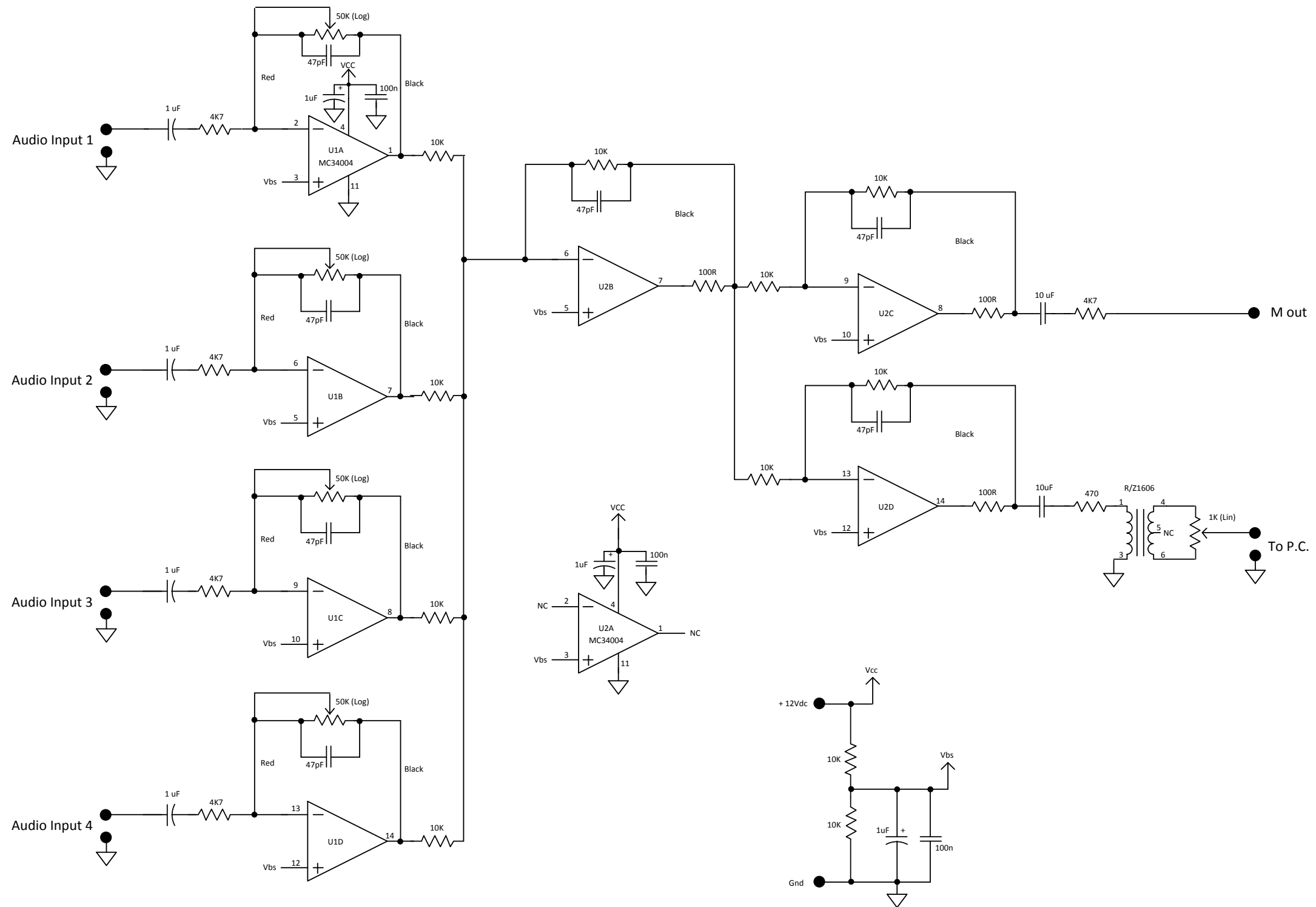
This page (page 1) is formatted to print on A4.

All the subsequent pages (pages 2 – 7) are formatted to print on A3. One of the many advantages of the Portable Document Format (.pdf) is that you can scale pages and print these on A4 if required.

Samuel



Station Audio Control Box  
Block Diagram  
24 March 2019



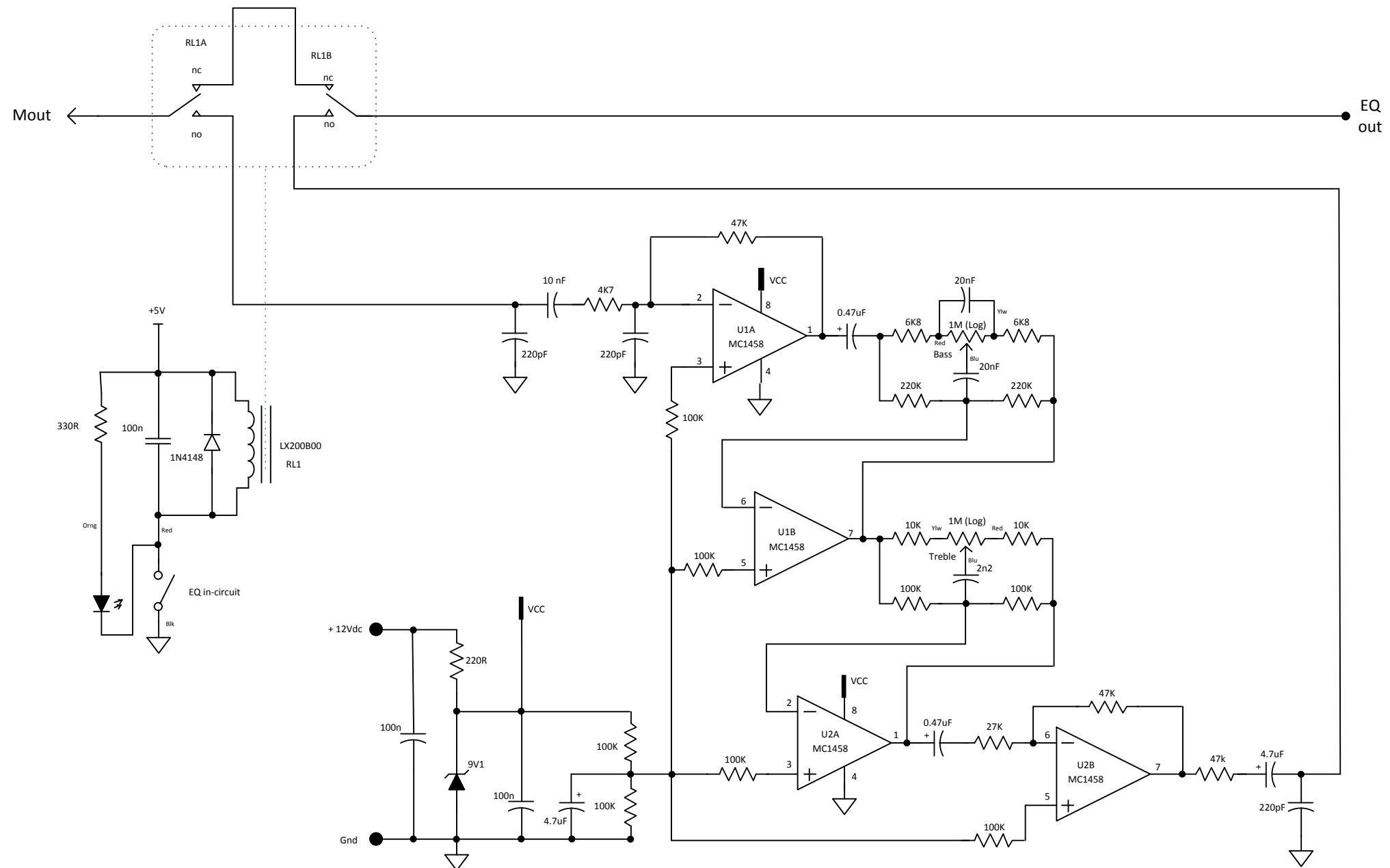
50KΩ (LOG) Pots – Alps, Part No. RK11K1120ABF, RS 263-3179

Audio Cabling – Multicore Cable, Screened, 2 Core, Pro Power JY-1244, Farnell 2580402 or CBBR6402 / CBBR6310

Isolation transformer – R/Z1606 – RS 210-6380

Option for 1uF capacitors – Vishay MKT1813510065 RS Stock No.185-4038

Mixer Schematic



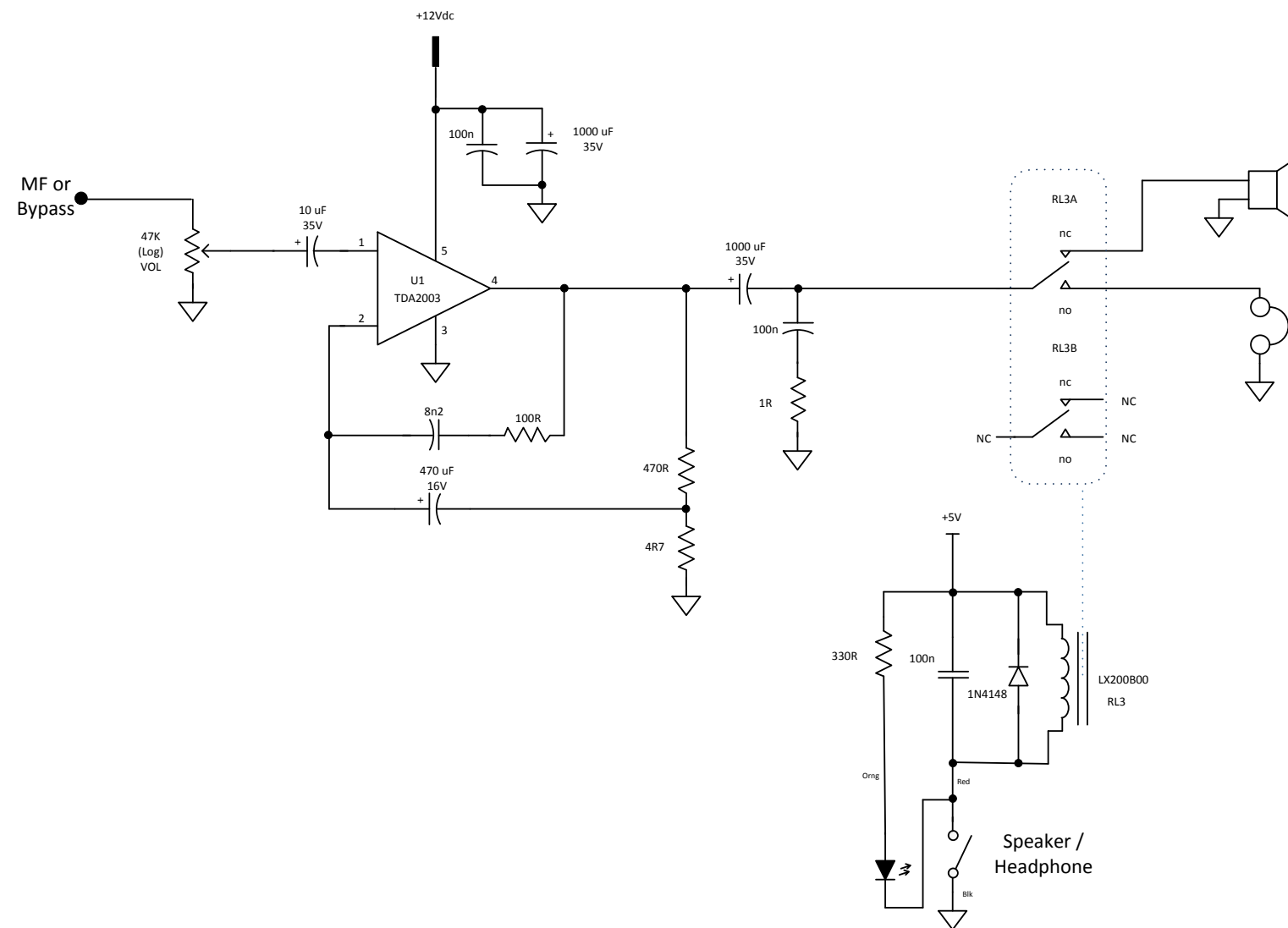
Switch and LED in same package = APEM, Part No. IPC1SAD2LOG, RS 223-751

Potentiometer = TE Connectivity, Part No.1624154-2, RS Stock No.168-128

Relay = LX200B00 or TE Connectivity DPDT Non-Latching Relay PCB Mount, 5V dc Coil, 3 A, Part No. V23105A5501A201, RS Stock No. 718-1783

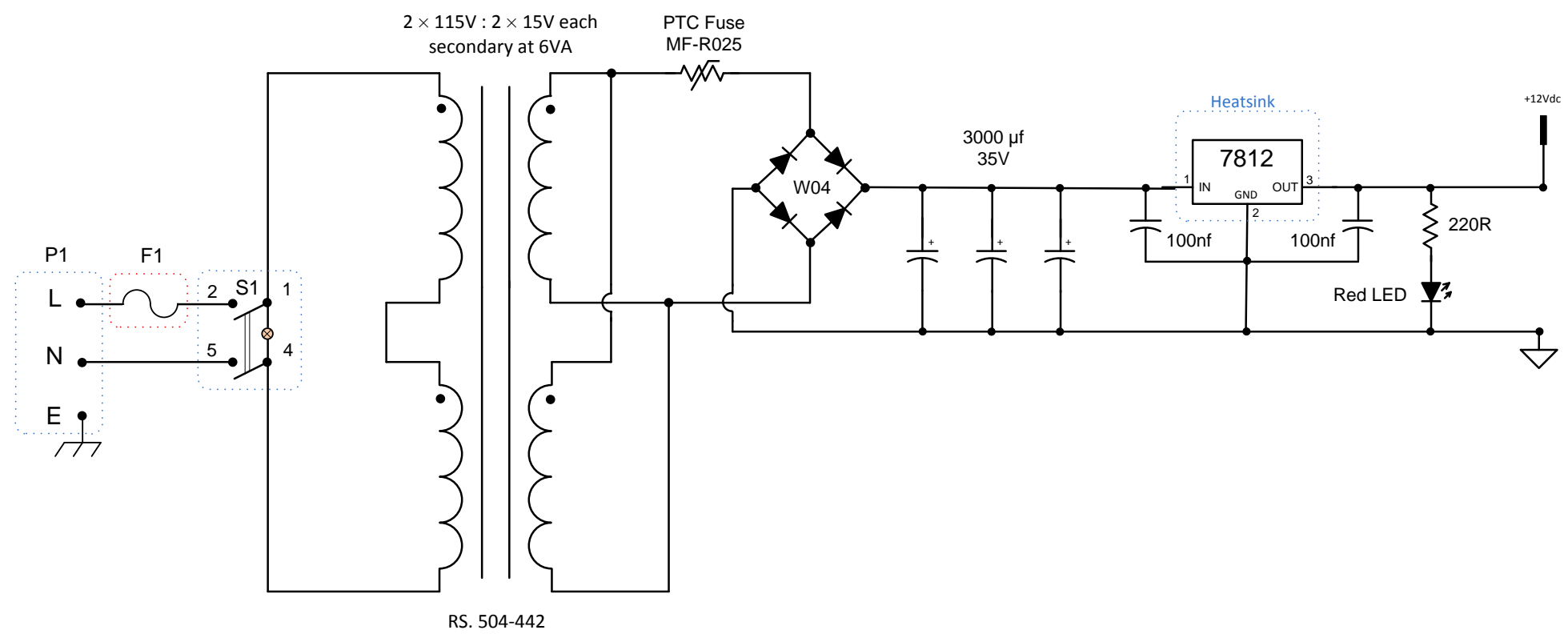
Audio Equaliser Schematic





Relay switch and LED in same package = APEM, Part No. IPC1SAD2LOG, RS 223-751  
 Potentiometer = TE Connectivity, Part No.1624161-2, RS Stock No.387-818  
 Relay = LX200BOO or TE Connectivity DPDT Non-Latching Relay PCB Mount, 5V dc Coil, 3 A, Part No. V23105A5501A201, RS Stock No. 718-1783

VELLEMAN K4001 Amplifier kit



F1 – 160 mA fast blow fuse, Cooper Bussmann, Part No.S500-160-R, RS Stock No.537-1284

S1 – Illuminated DPST Latching Rocker Switch, Molveno, SX8231881100G000, RS. 914-3563

P1- Panel Mount IEC Plug Male, 10A, 250 V ac, RS.488-191

PTC fuse - Bourns Resettable Fuse, MF-R025, RS. 647-8443

W04 – Bridge Rectifier, 1.5A 400V, e.g. RS. 629-5153

Heatsink – TO220, 20.3 K/W, RS. 268-098

Electrolytic capacitors – better priced are 3300µF 35V dc, RS Stock No.711-1368

Power Supply Unit