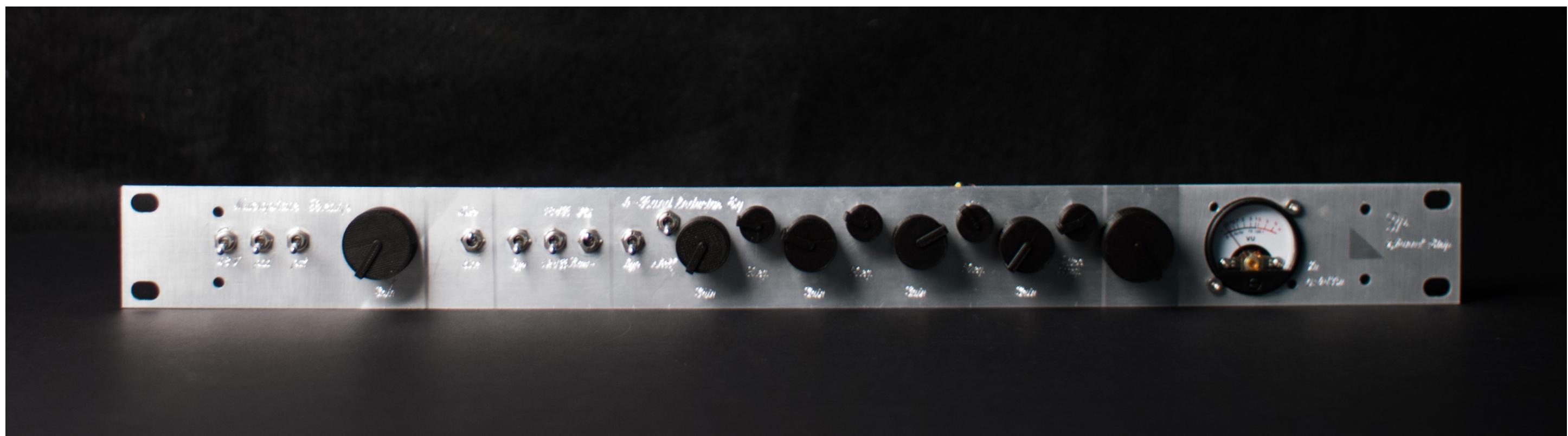


Zev Pogrebin Channel Strip
Technical Supplement

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Operating Specifications

Nominal Line Level: +4dBu

Frequency Response (EQ disengaged):

Mic Pre (Max Gain): 20Hz-20kHz -3dB

Line In: 20Hz-20kHz +/-3dB

Total Harmonic Distortion & Noise:

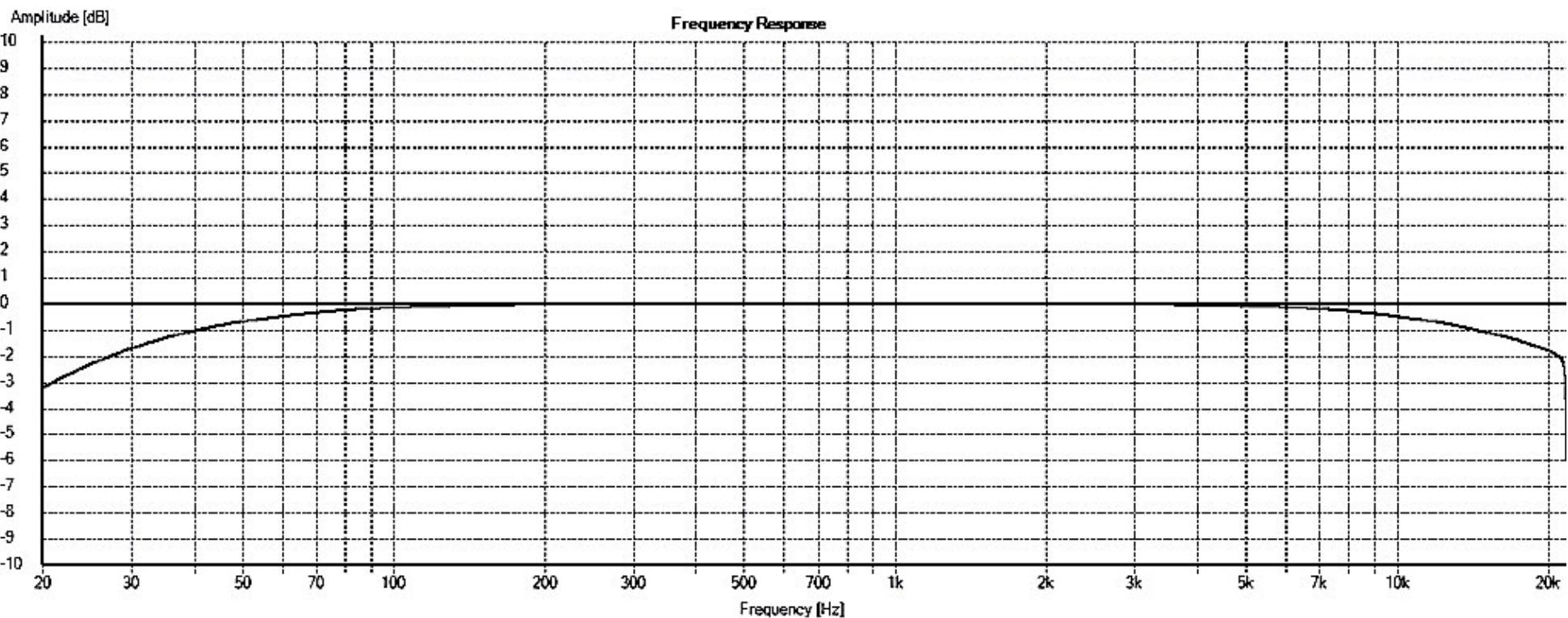
Mic Pre: <0.5% @1kHz

Nominal Power Consumption:

<2W

Physical Dimensions (L" x W" x D")

19 x 1.75 x 4



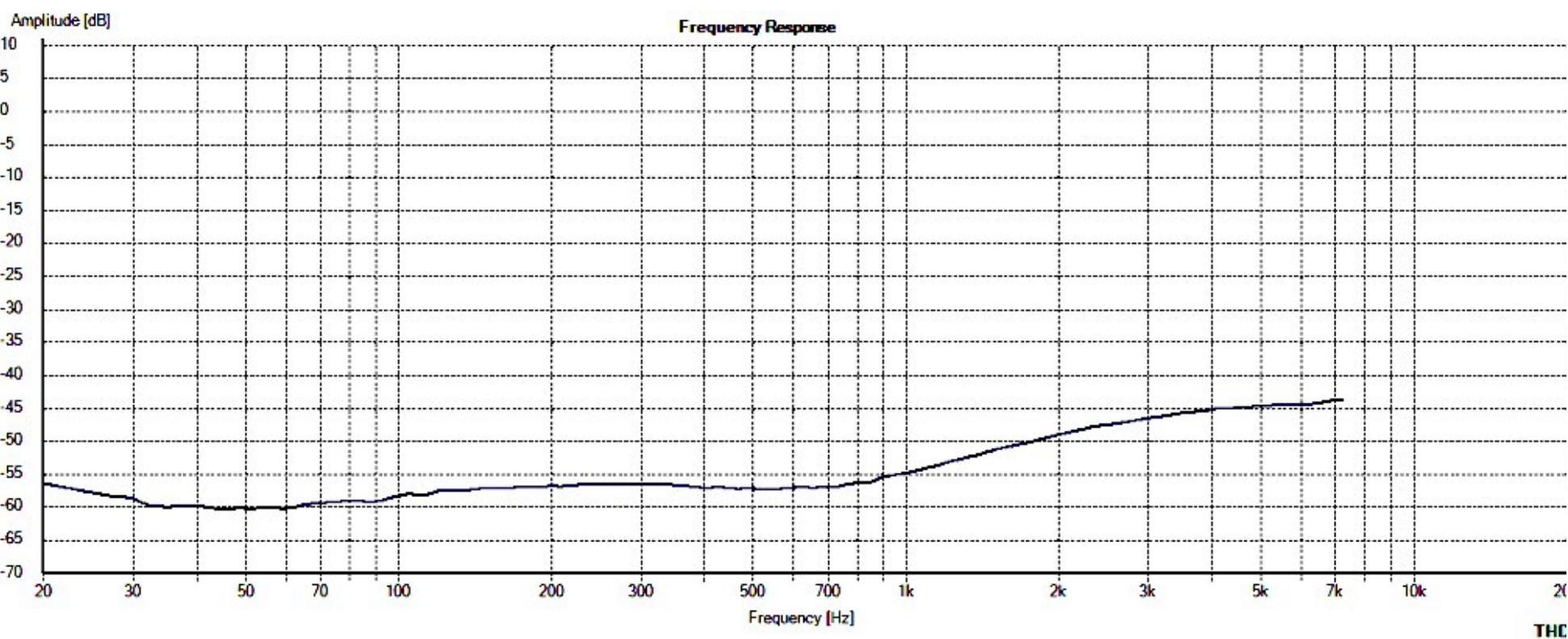
Designer's Specifications

The device shall consist of a class A microphone preamp, 4 band parametric equalizer with gain and frequency controls for all bands, and a transformer balanced input.

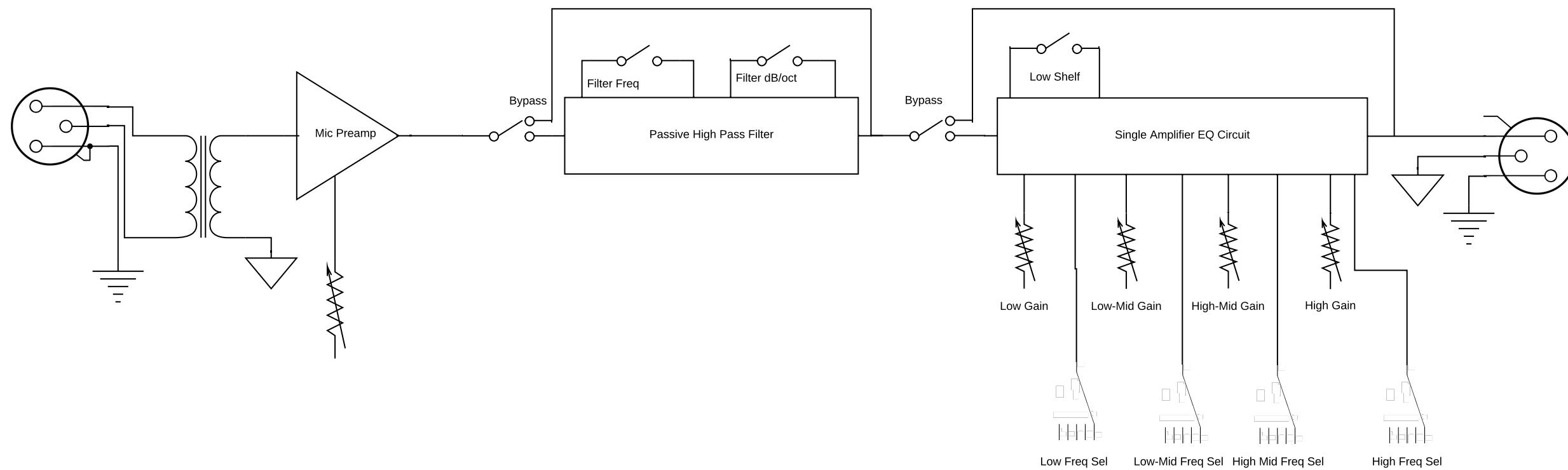
The system shall keep noise and distortion to a minimum, retaining a transparent sound. The frequency response of the device (with the equalizer disengaged) will be better than 20hz - 20khz ±3dB.

Frequency Response ↑

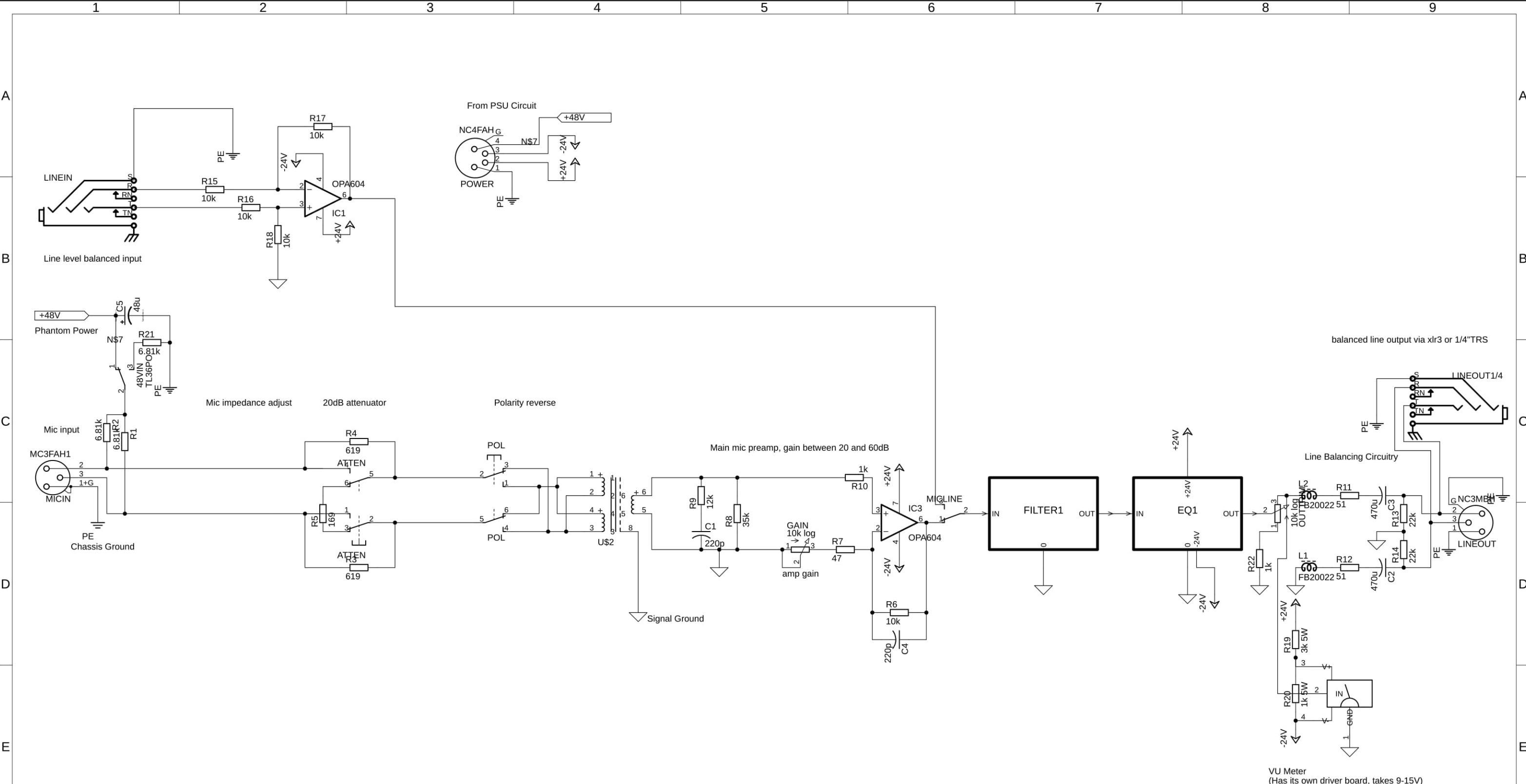
| Total Harmonic Distortion (Mic Pre @ Max Gain) ↓



Block Diagram



1 2 3 4 5 6 7 8 9



Zev Pogrebin

TITLE: Main Circuit

Document Number: 1 of 2

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Date: 5/20/18 8:17 PM

Sheet: 1/1

A

A

B

B

C

C

D

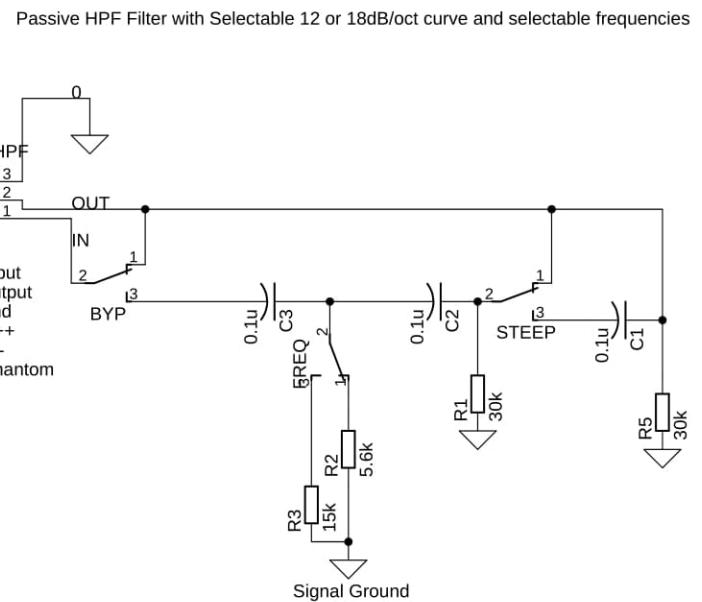
D

E

E

F

F



A Zev Pogrebin

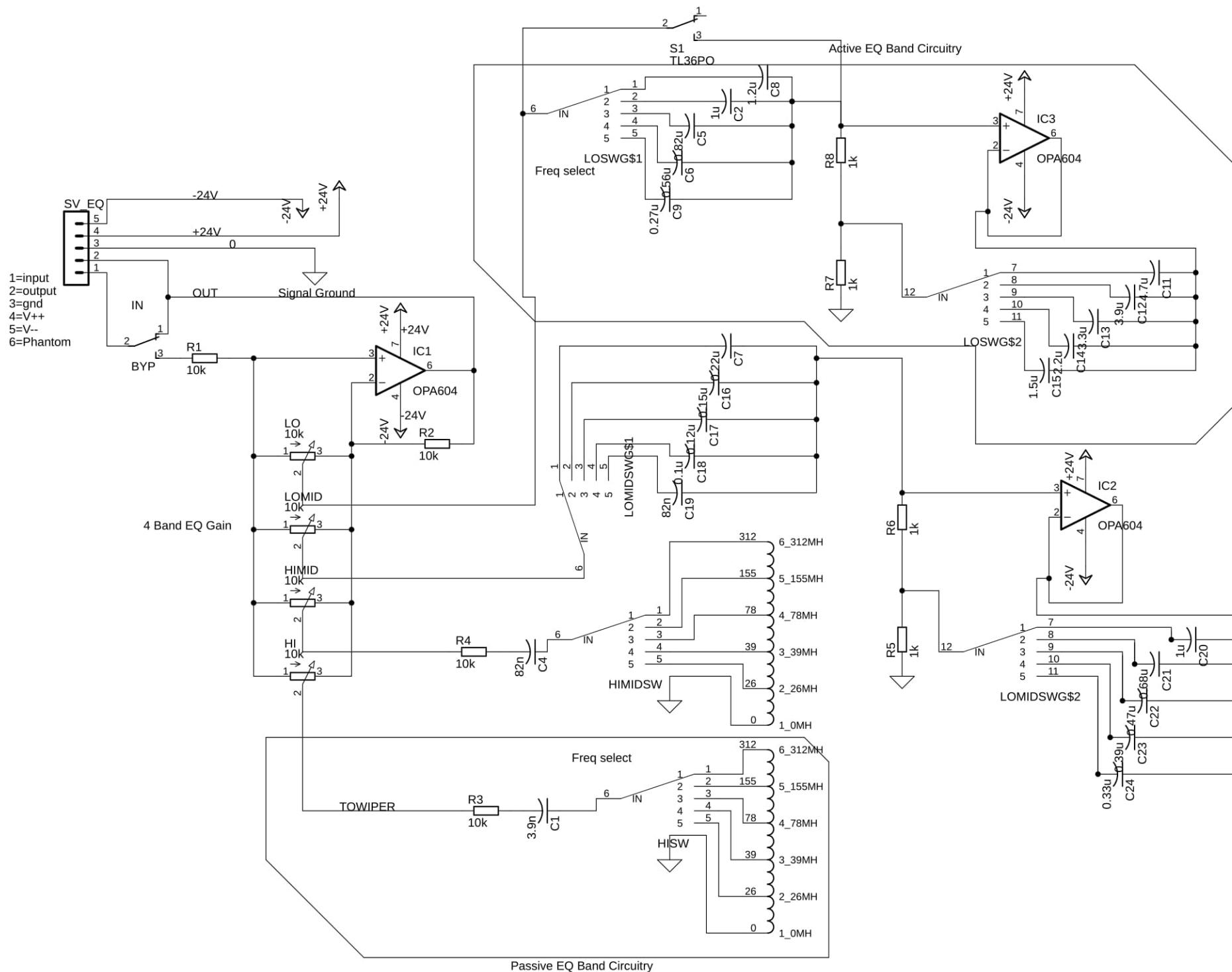
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Zev Pogrebin

TITLE: Main Circuit

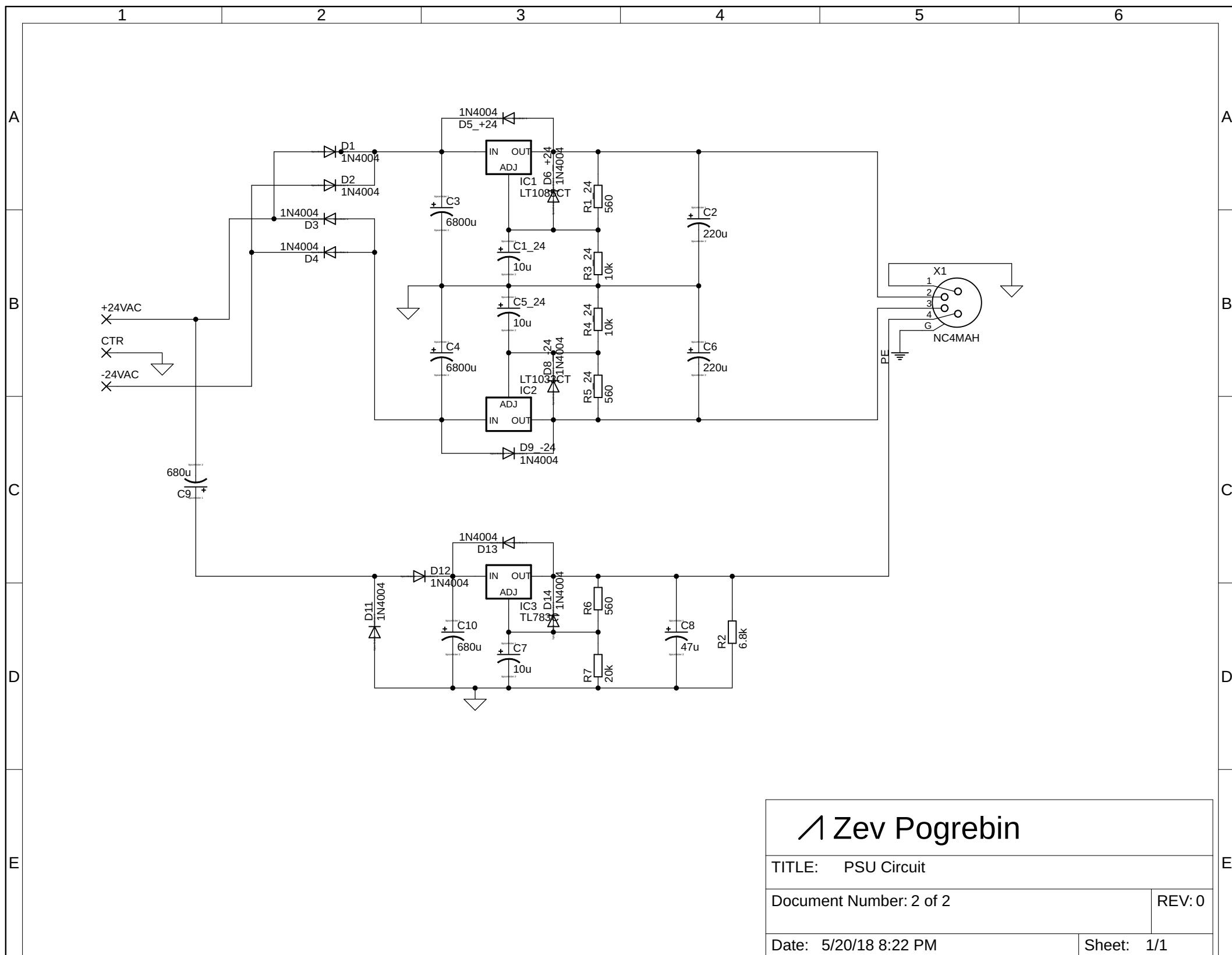
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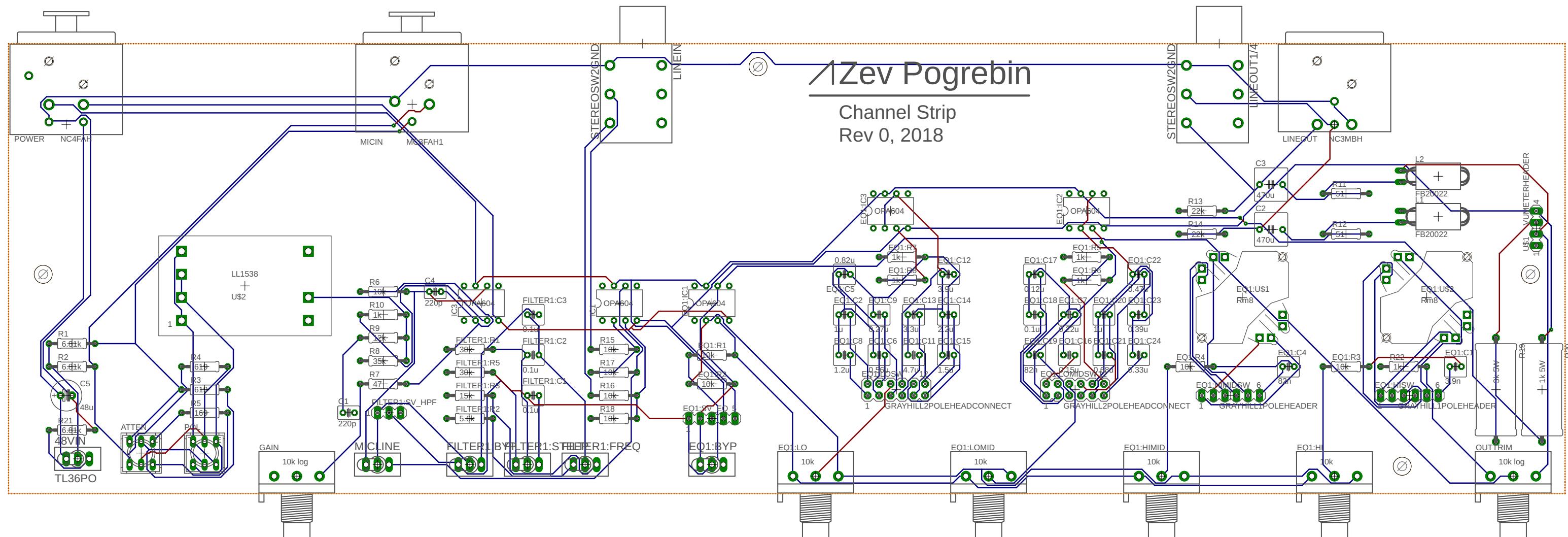
Sheet: 1/1

Power Supply

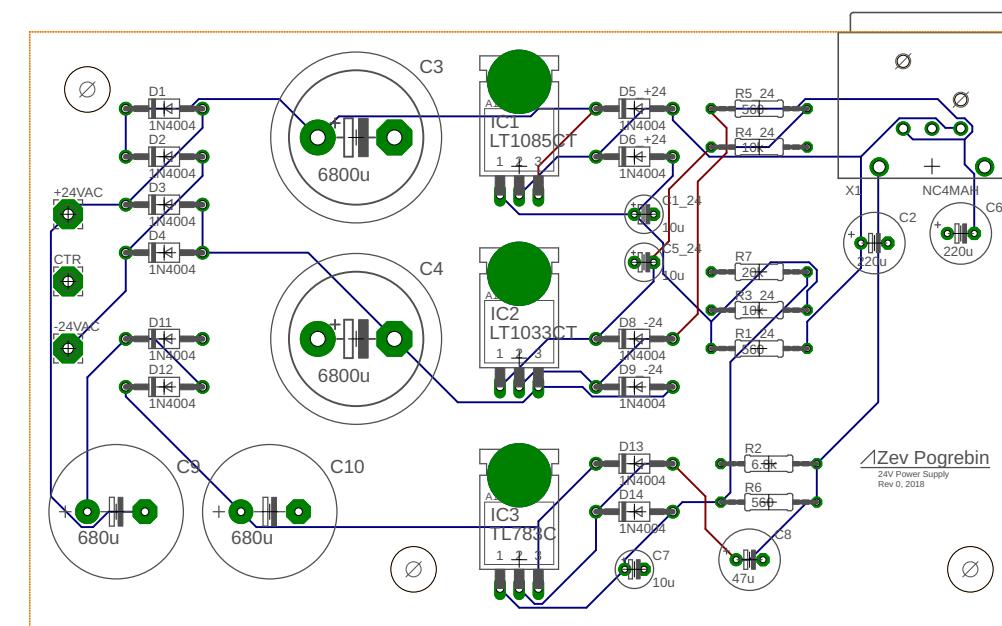


Printed Circuit Board Layouts [actual size]

Main Circuit



Power Supply Circuit



Bill of Materials

Qty	Manufacturer	Manufacturer Order Code	Qty	Manufacturer	Manufacturer Order Code	Qty	Manufacturer	Manufacturer Order Code
4	BOURNS, INC.	PDB181-K420K-103B	1		C330C824K5R5TA7303	2	PANASONIC	ECE-A1AN471U
12		1N4004-E3/54	6		LR0204F1K0	1	Linear Tech	LT1033CT#PBF
2	KEMET	C052K823K5X5CA	20		LR0204F10K	6		M2012SS1G03
1		NC4MAH	1		LR0204F12K	2		M2022SS1G03
2		NRJ6HM-1	1		LR0204F15K	1		NC4FAH
1	KEMET	C330C104K1R5TA	1		LR0204F180R	2	BOURNS, INC.	PDB181-K420F-103A2
2		EEU-FC2A681	1		LR0204F20K	1		TL783CKCSE3
1		MC1206N392J500A5.08MM	2		LR0204F22K	1	Bel	241-5-48
1		C317C154K3N5TA91707301	2		LR0204F30K			
1		C317C224K5N5TA91707301	1		LR0204F36K			
1	KEMET	C330C474K5R5TA	1		LR0204F47R			
1		5W210	1		LR0204F5K6			
1		5W227	2		LR0204F51R			
1	KEMET	C330C334K5R5TA	3		LR0204F560R			
2	AVX CORP	SR151A221JAR	1		LR0204F6K8			
3	KEMET	C320C104J1R5TA	2		LR0204F620R			
1	KEMET	C340C475M5U5TA	2		C333C105K5R5TA7301			
3		EEUEB1J100SH	3		YR1B6K81CC			
2		UVR1H682MRD	2	Grayhill	50P36-01-1-05N			
1		LT1085CT-12#PBF	2	Grayhill	50M36-01-2-05N			
1		C340C225K5R5TA	1	Bud Industries	C-14430			
2	MILLER, J.W.	FB20022-4B-RC	1	KEMET	C322C124K5R5TA			
1	KEMET	C330C684K5R5TA	1	KEMET	C330C125KAR5TA			
1	KEMET	C340C335M5U5TA	1	KEMET	C330C274K5R5TA			
1		C330C564K5R5TA	1	KEMET	C330C394K5R5TA			
1		EEU-EB1J470S	1	Bud Industries	CH-14400			
2		EEU-EB1V221	1	PANASONIC	ECE-A1AN470UB			

Front Panel Physical Characteristics

