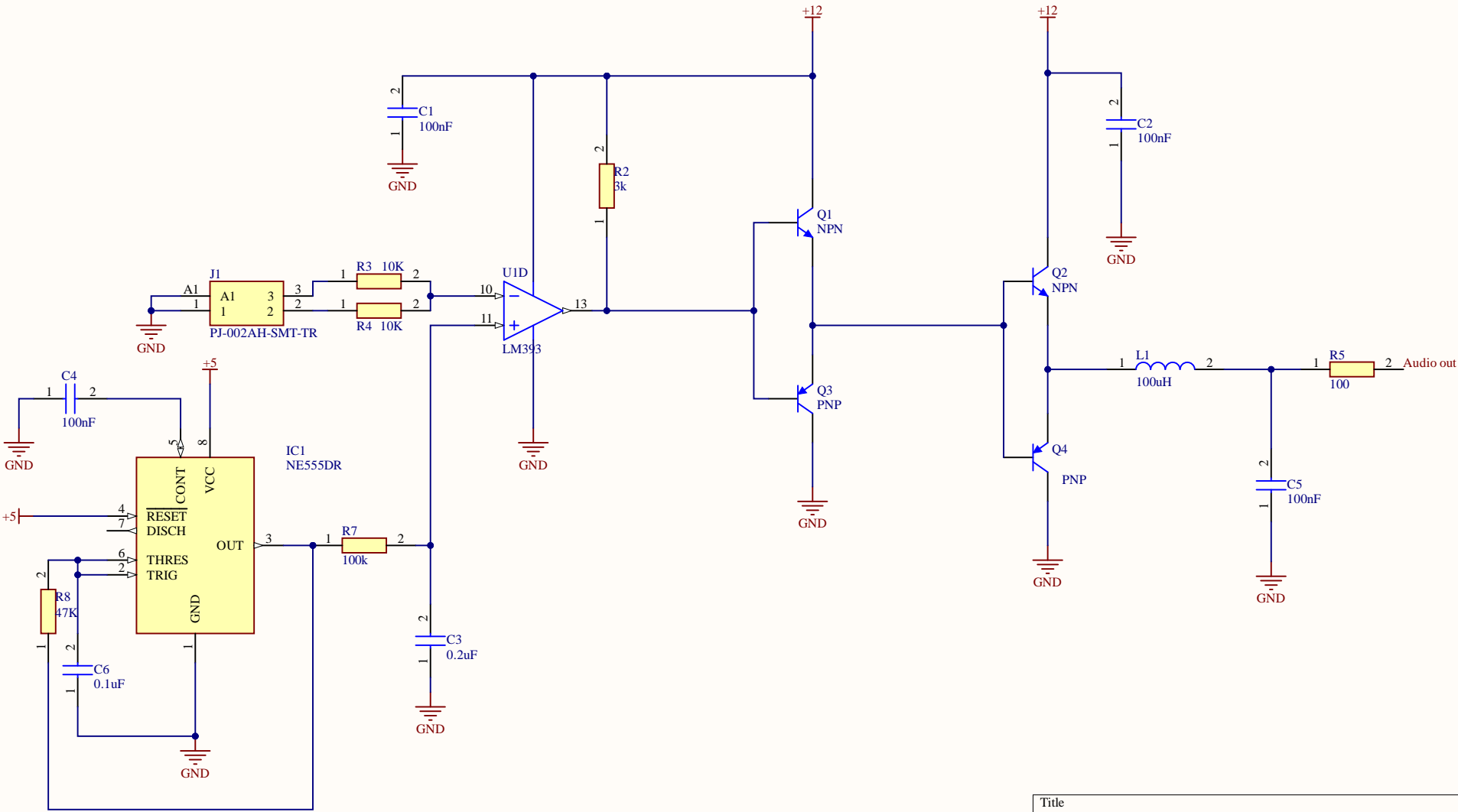


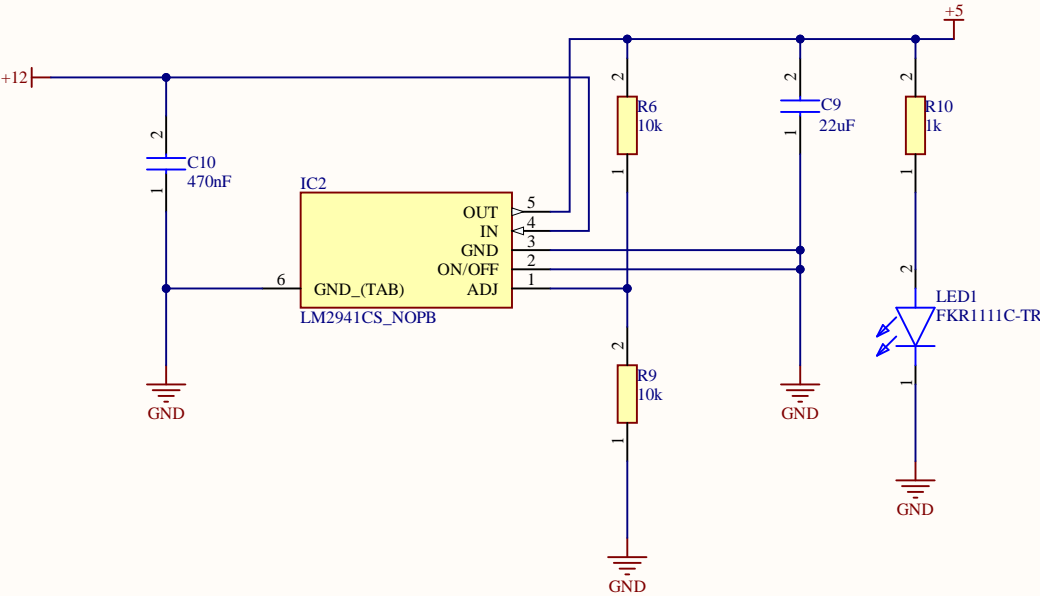
CLASS D AMPLIFIER



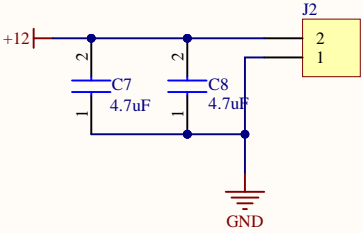
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Size	Number	Revision
A4		
Date:	4/14/2025	Sheet of
File:	C:\Users\...\class_D_amplifier.SchDoc	Drawn By:

POWER SECTION

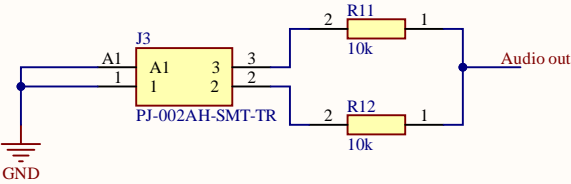
LDO



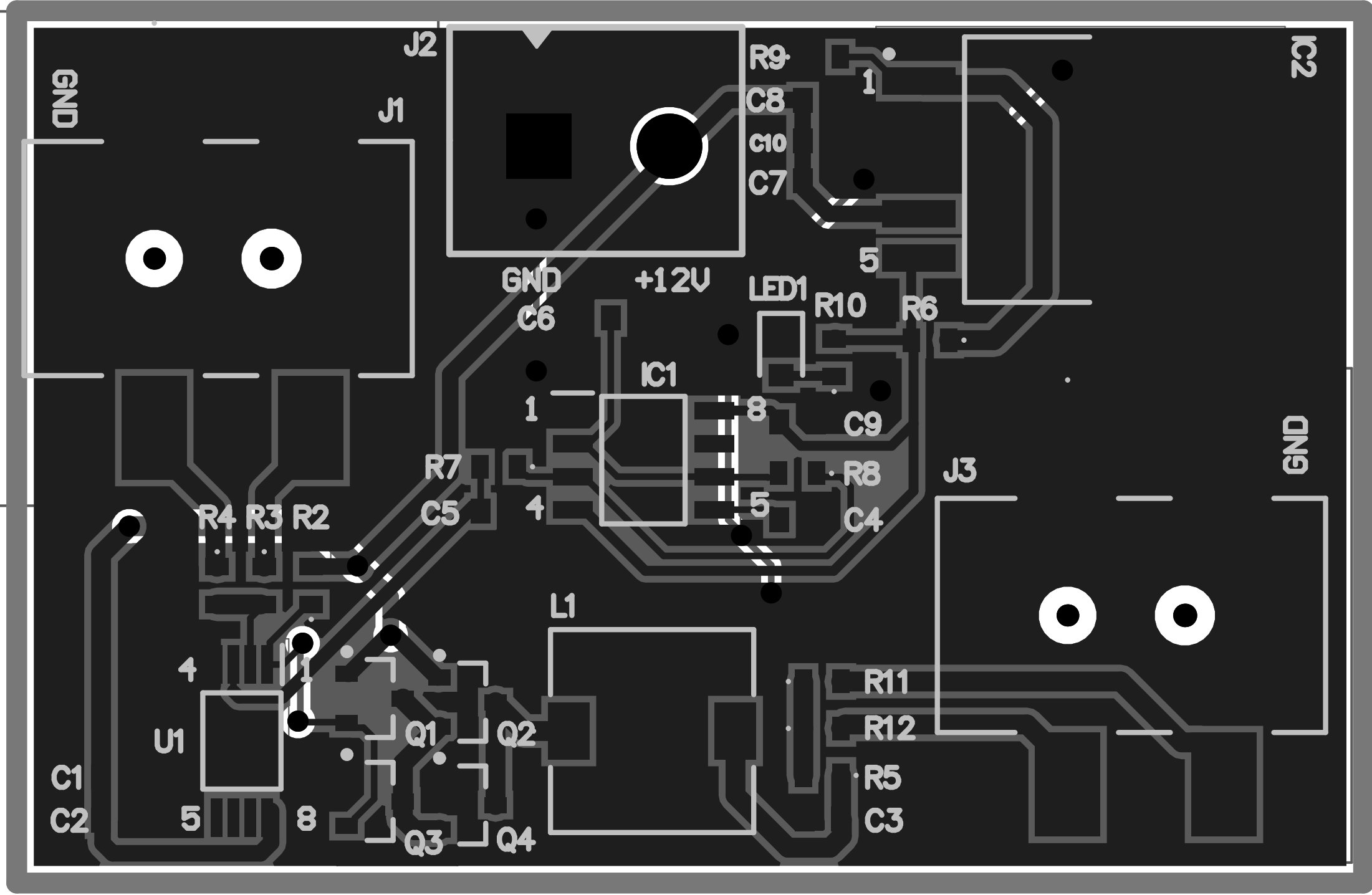
12 V INPUT



AMPLIFIER OUTPUT



Title		
Size	Number	Revision
A4		
Date:	4/14/2025	Sheet of
File:	C:\Users\...\power section.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	Capacitor	C1, C2, C4, C5	CAPC1608X90N	GRM188R71C104MA01D	4
0.2uF	Capacitor	C3	CAPC1608X90N	GRM188R71C104MA01D	1
0.1uF	Capacitor	C6	CAPC1608X90N	GRM188R71C104MA01D	1
4.7uF	Capacitor	C7, C8	CAPC1608X90N	GRM188R71C104MA01D	2
22uF	Capacitor	C9	CAPC1608X90N	GRM188R71C104MA01D	1
470nF	Capacitor	C10	CAPC1608X90N	GRM188R71C104MA01D	1
NE555DR	Integrated Circuit	IC1	SOIC127P600X175-8N	NE555DR	1
LM2941CS_NOPB	Integrated Circuit	IC2	TO170P1435X465-6N	LM2941CS_NOPB	1
PJ-002AH-SMT-TR	Connector	J1, J3	PJ002AHSMITTR	PJ-002AH-SMT-TR	2
	2 Pins, 1 Row 5mm Pitch, straight Connector, male	J2	CON2_P196_1729128_TH_ST	CON-TB_2X1-196-ST-TH	1
100uH	Inductor	L1	IFDC3030EZER101M	IFDC3030EZER101M	1
FKR1111C-TR	LED	LED1	LEDC1608X80N	FKR1111C-TR	1
NPN	NPN Bipolar Transistor	Q1, Q2	SOT-23B_L	QNPN	2
PNP	PNP Bipolar Transistor	Q3, Q4	SOT-23B_L	PNP	2
3k	Resistor	R2	ERA3AEB101V	ERA-3AED102V	1
10K	Resistor	R3, R4, R6, R9, R11, R12	ERA3AEB101V	ERA-3AED102V	6
100	Resistor	R5	ERA3AEB101V	ERA-3AED102V	1
100k	Resistor	R7	ERA3AEB101V	ERA-3AED102V	1
47K	Resistor	R8	ERA3AEB101V	ERA-3AED102V	1
1k	Resistor	R10	ERA3AEB101V	ERA-3AED102V	1
LM393	Comparator General Purpose CMOS, DTL, ECL, MOS, Open-Collector, TTL 14-SOIC	U1	SOP65P640X120-8N	IC_LM339M/NOPB	1