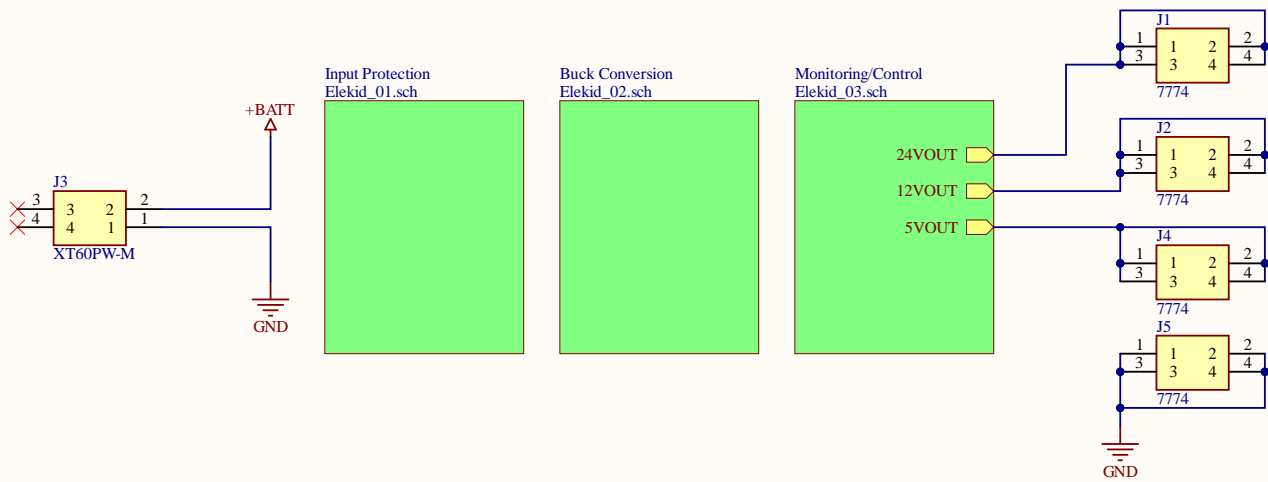
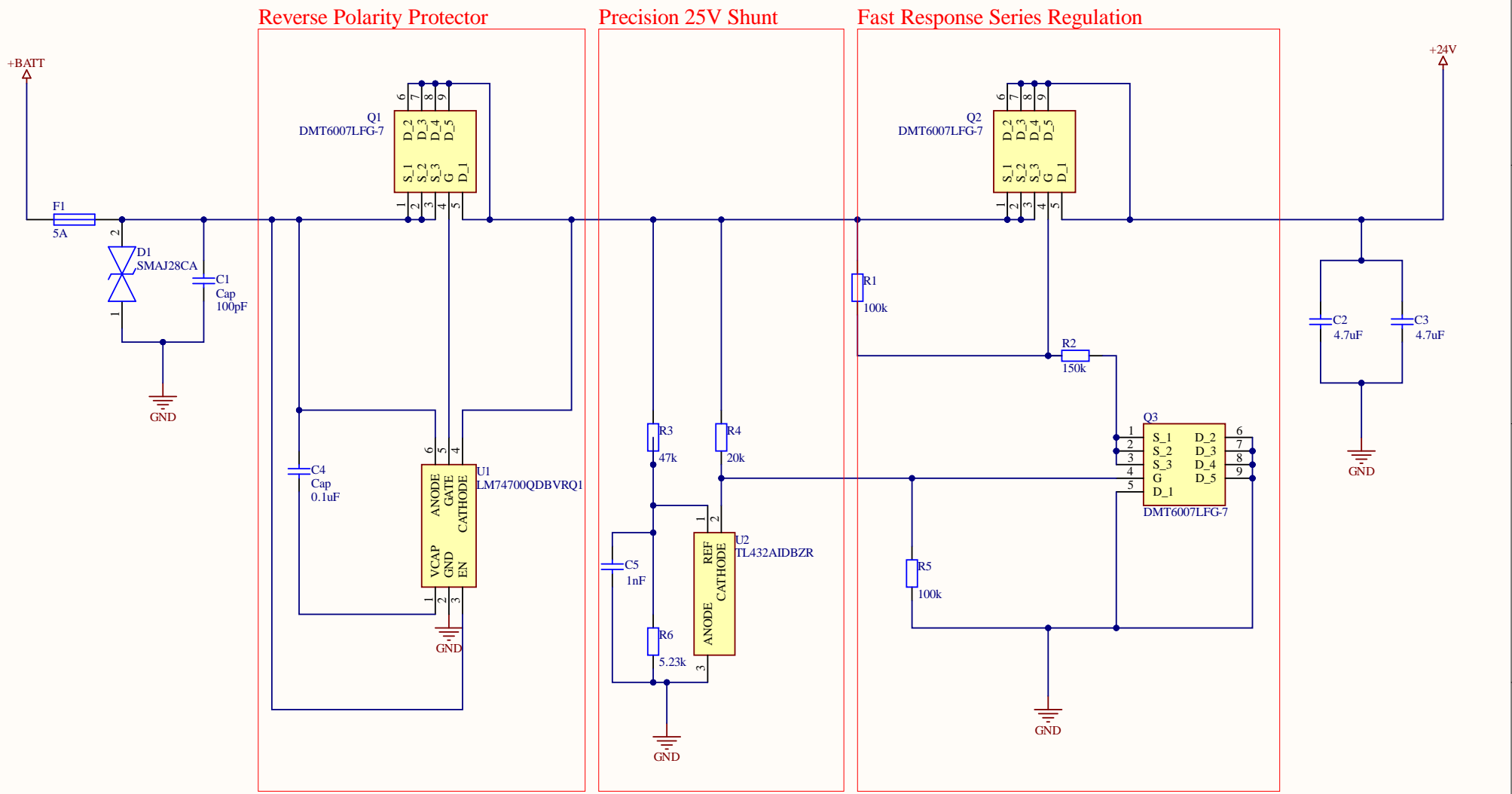


Designator	Value	Comment	Description	Footprint	Quantity
C1, C18, C21, C24, C25, C30, C31	100pF	Cap	Capacitor	C0805	7
C2, C3	4.7uF	Cap	Capacitor	C0805	2
C4	0.1uF	Cap	Capacitor	C0805	1
C5	1nF	Cap	Capacitor	C0805	1
C6	4.7u	Cap	Capacitor	C0805	1
C7, C8	470n	Cap	Capacitor	C0805	2
C9, C10, C11	5u	Cap	Capacitor	C0805	3
C12, C13	470p	Cap	Capacitor	C0805	2
C14, C17, C34, C35, C38, C39	22p	Cap	Capacitor	C0805	6
C15, C16	0.1u	Cap	Capacitor	C0805	2
C19, C22	10nF	Cap	Capacitor	C0805	2
C20, C23	1uF	Cap	Capacitor	C0805	2
C26, C27	4pF	Cap	Capacitor	C0805	2
C28, C29	100pF	Cap Pol2	Polarized Capacitor (Axial)	C0805	2
C32, C33, C36, C37	22p	Cap Pol2	Polarized Capacitor (Axial)	C0805	4
C40, C41, C44	10n	Cap	Capacitor	C0805	3
C42	10uF	Cap2	Capacitor	C0805	1
C43	100uF	Cap2	Capacitor	C0805	1
D1		SMAJ28CA	TVS Diode (Bi-directional)	DIONM5226X262N	1
D2, D3		PMEG4005EJ	Schottky Diode	SOD2512X80N	2
D4, D5		B360A-13-F	Diode	DIOM5226X240N	2
D6, D7, D8, D9, D10, D11		LTST-C191KRKT	LED	LEDC1608X55N	6
F1		5A	Fuse	PIN-W2/E2.8	1
J1, J2, J4, J5		7774	Connector	7774	4
J3		XT60PW-M	Connector	XT60PWM	1
J6		B4B-XH-A_LF__SN__	Connector	B4BXHALFSN	1
J7		GRPB052VWVN-RC	Connector	HDRV10W50P127_2X5_635X340X430P	1
J8		B5B-EH	Connector	SHDR5W64P0X250_1X5_1500X380X600P	1
L1	5u	Inductor	Inductor	c0805	1
L2	2.7u	Inductor	Inductor	c0805	1
L3, L4, L5	10mH	Inductor	Inductor	c0805	3
Q1, Q2, Q3		DMT6007LFG-7	MOSFET (N-Channel)	DMT6007LFG7	3
R1, R5, R8	100k	Res2	Resistor	C0805	3
R2	150k	Res2	Resistor	C0805	1
R3	47k	Res2	Resistor	C0805	1
R4	20k	Res2	Resistor	C0805	1
R6	5.23k	Res2	Resistor	C0805	1
R7	20.5k	Res2	Resistor	C0805	1
R9	140k	Res2	Resistor	C0805	1
R10	52.5k	Res2	Resistor	C0805	1
R11, R12	10k	Res2	Resistor	C0805	2
R13, R14	40.2k	Res2	Resistor	C0805	2
R15, R16, R23, R24, R25, R26	68	Res2	Resistor	C0805	6
R17, R18, R19	50m	Res2	Resistor	C1206	3
R20, R21, R22	5k	Res2	Resistor	C0805	3
U1		LM74700QDBVRQ1	Integrated Circuit	SOT95P280X145-6N	1
U2		TL432AIDBZR	Integrated Circuit	SOT95P237X112-3N	1
U3		TJA1051T_3,118	Integrated Circuit	SOIC127P600X175-8N	1
U4		STM32F042K4T6	Integrated Circuit	QFP80P900X900X160-32N	1
U5		INA2181A1IDGST	Integrated Circuit	SOP50P490X110-10N	1
U6		TLV1117-33IDCYR	Integrated Circuit	SOT230P700X180-4N	1
U7		LT3501EFE		SOP65P640X120-21N	1
U8		INA181A1QDBVRQ1	Integrated Circuit	SOT95P280X145-6N	1
Y1		CX5032GB08000H0HP QZ1	Crystal or Oscillator	CX5032GB08000H0HP QZ1	1

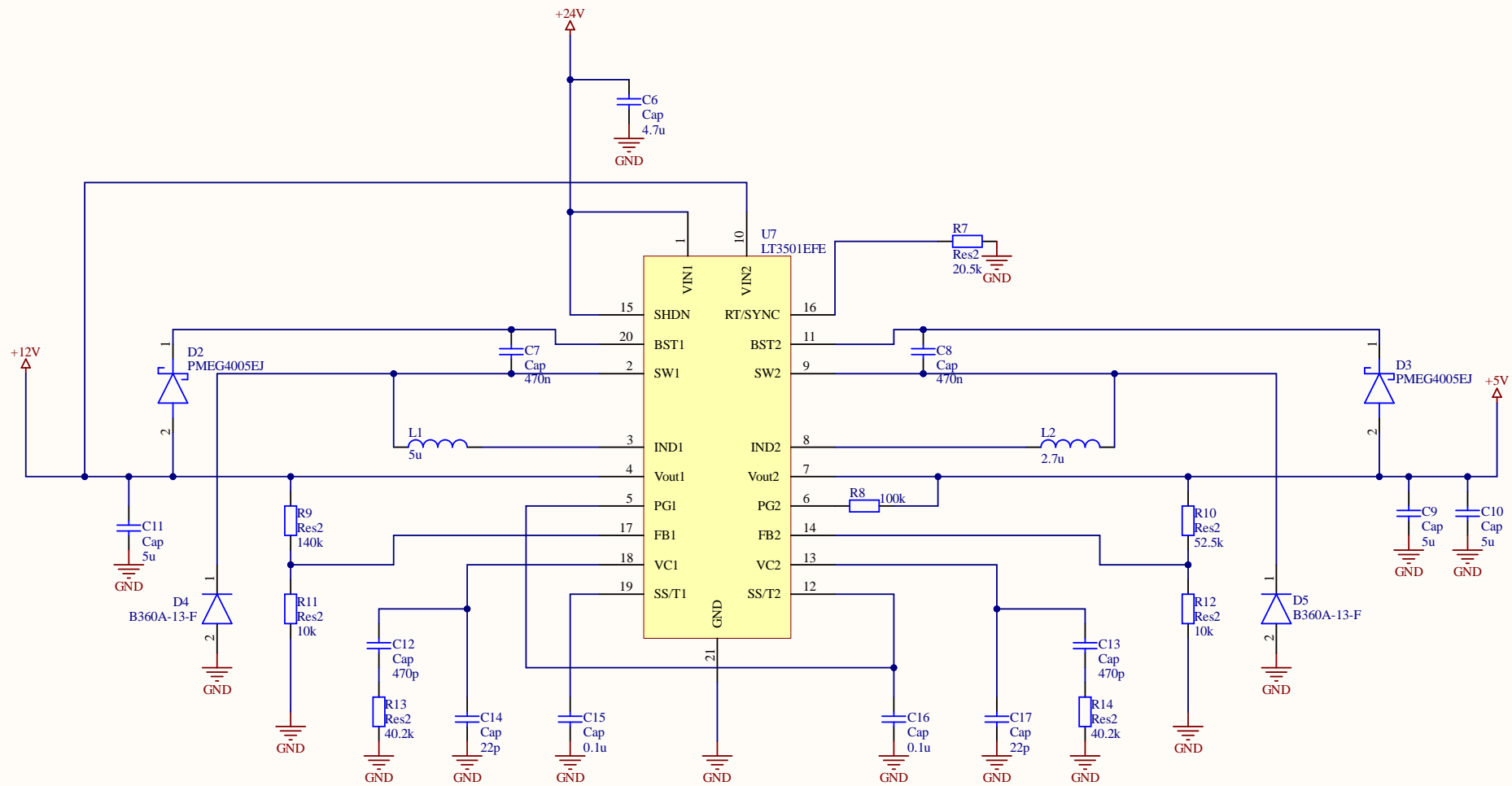


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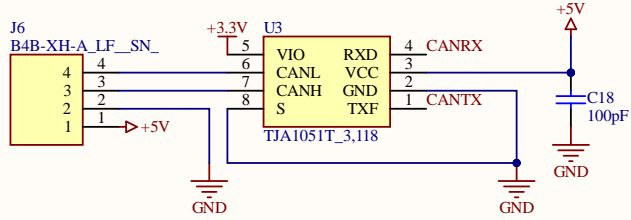
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Buck Conversion

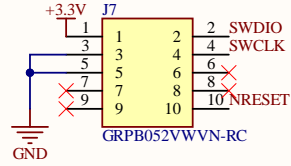


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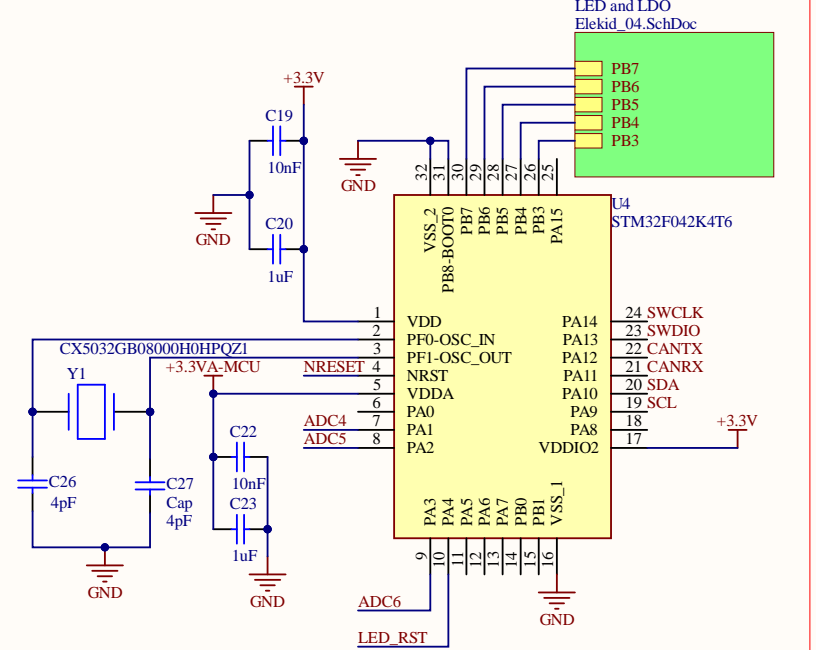
CAN Transceiver



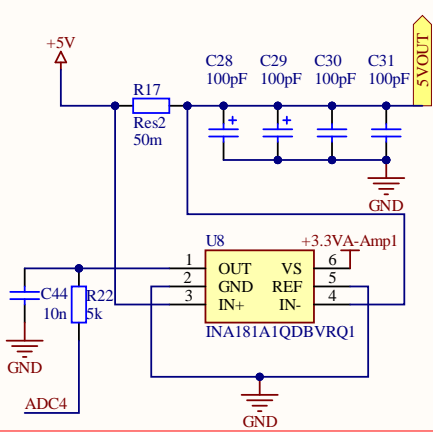
Programming Header



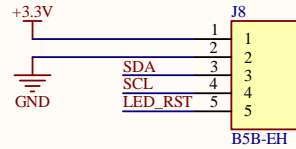
Microcontroller



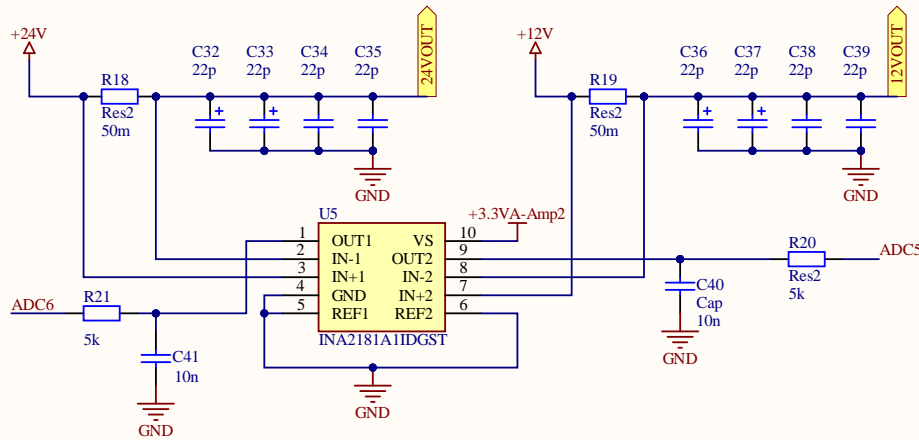
5V Current Sense and Output



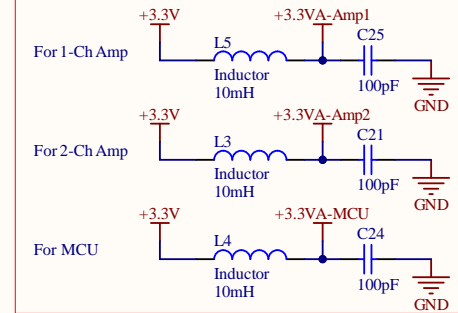
LCD Breakout Header



12V and 24V Current Sense and Output

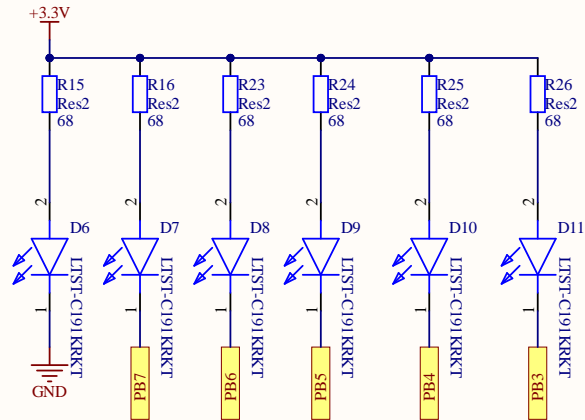


Analog Power Decoupling

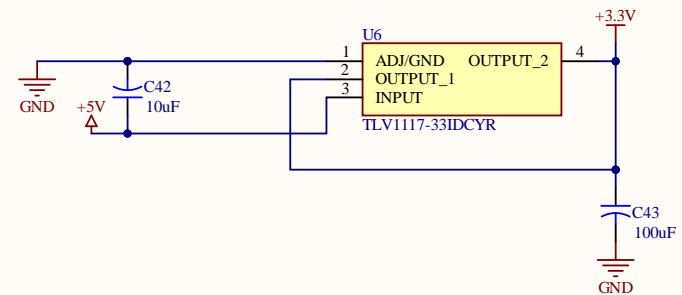


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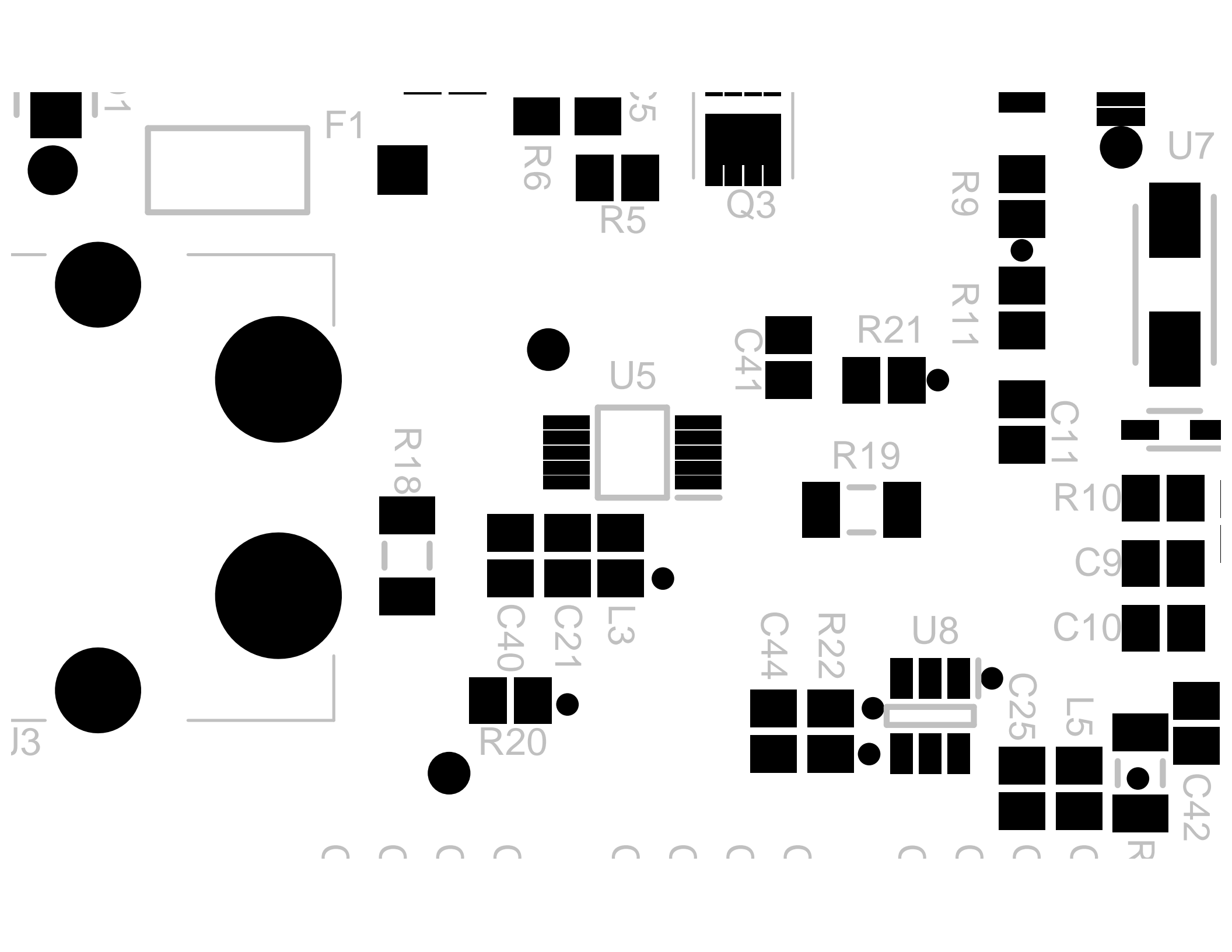
LEDs



LDO



Title		
Size A4	Number	Revision
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