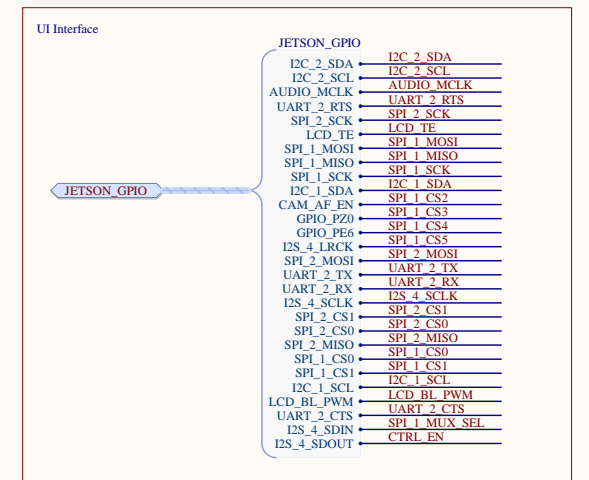
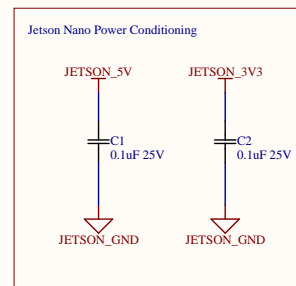
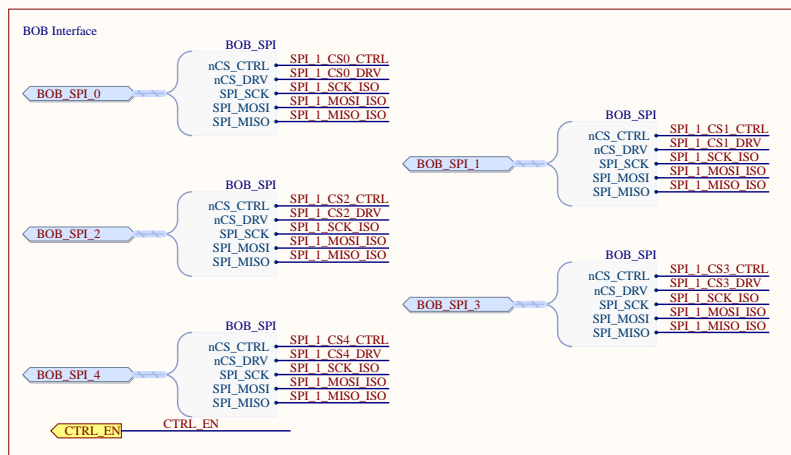
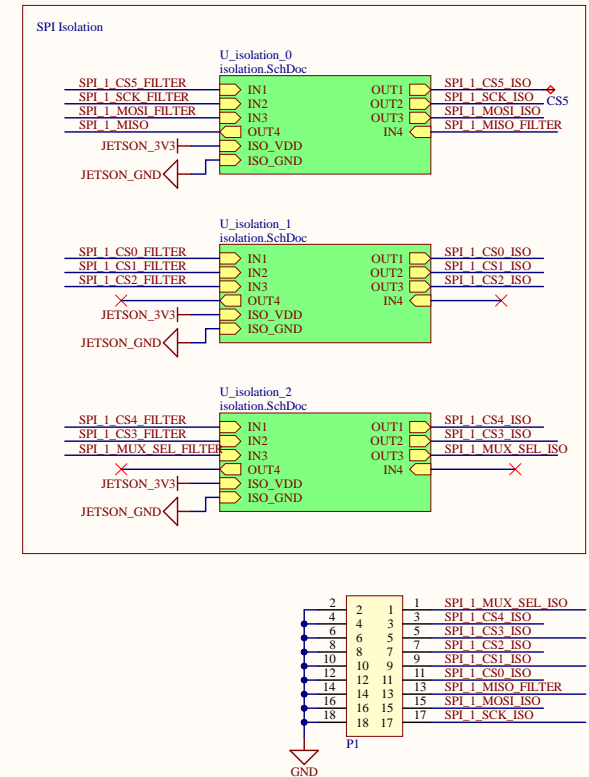
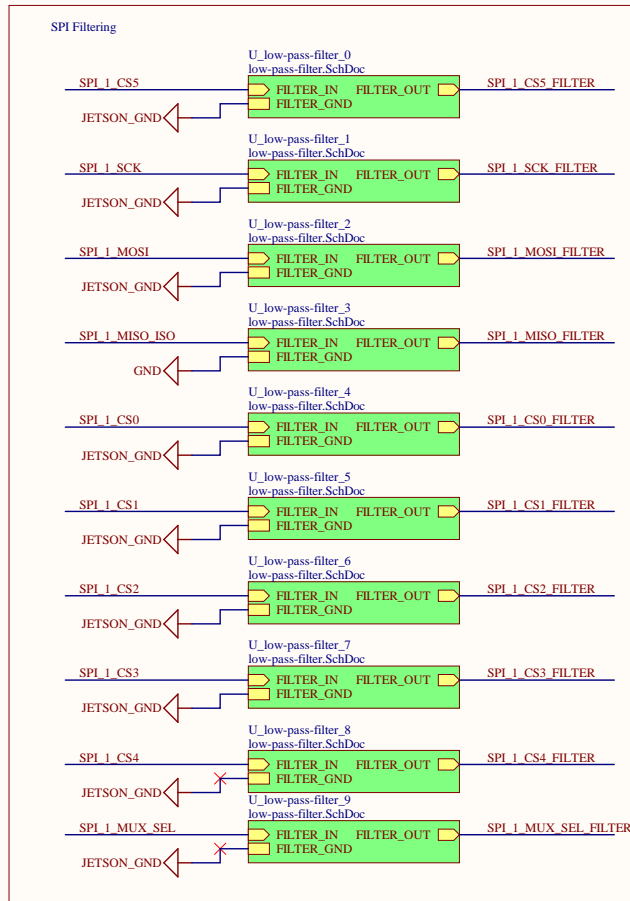
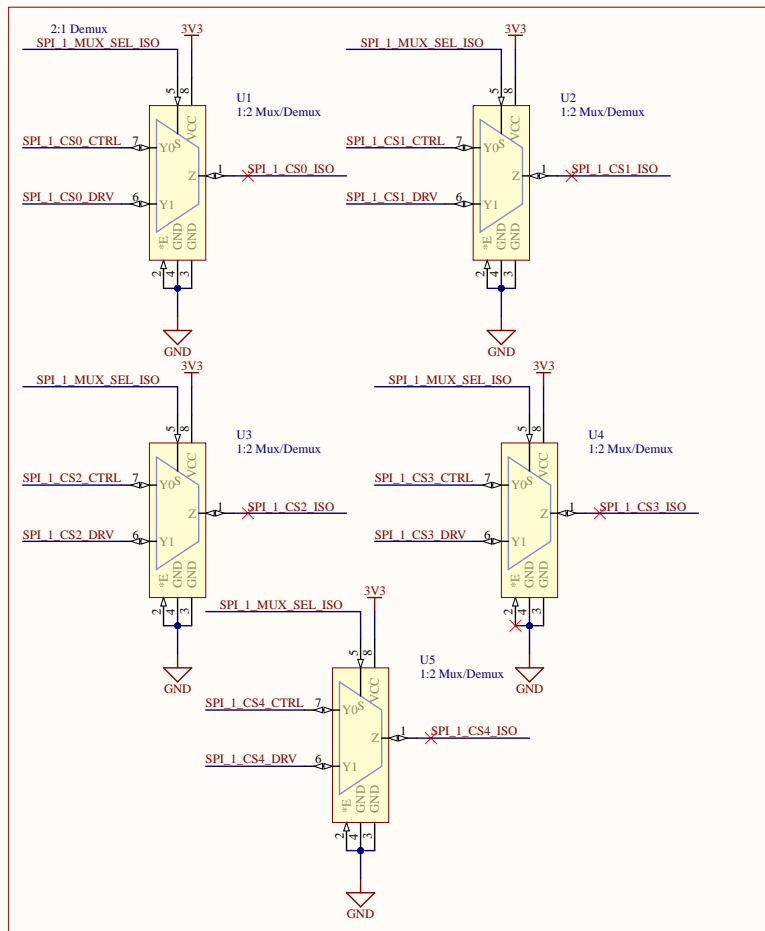
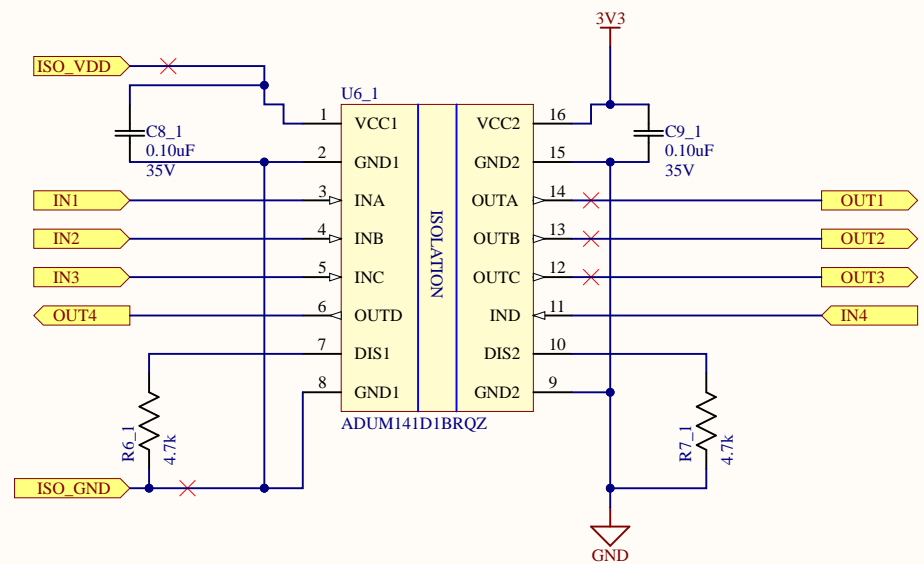


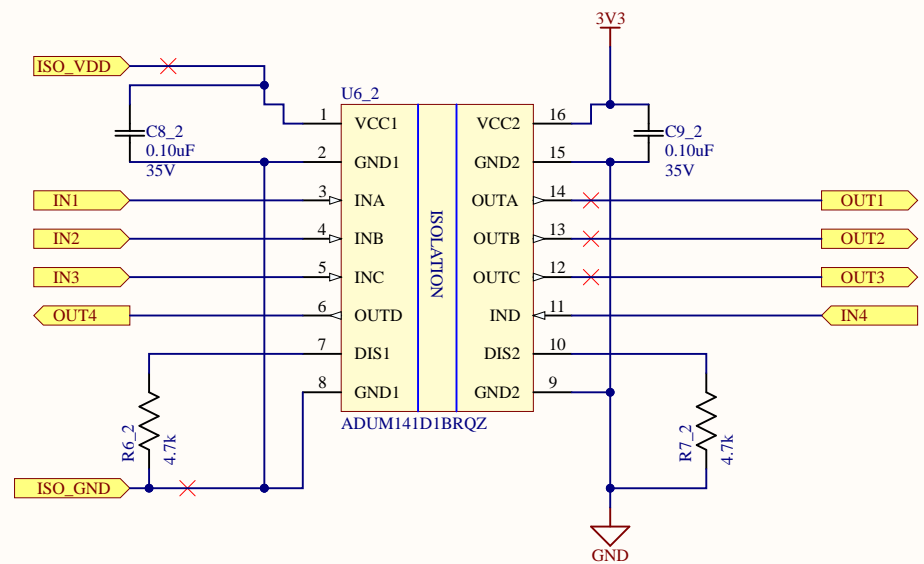
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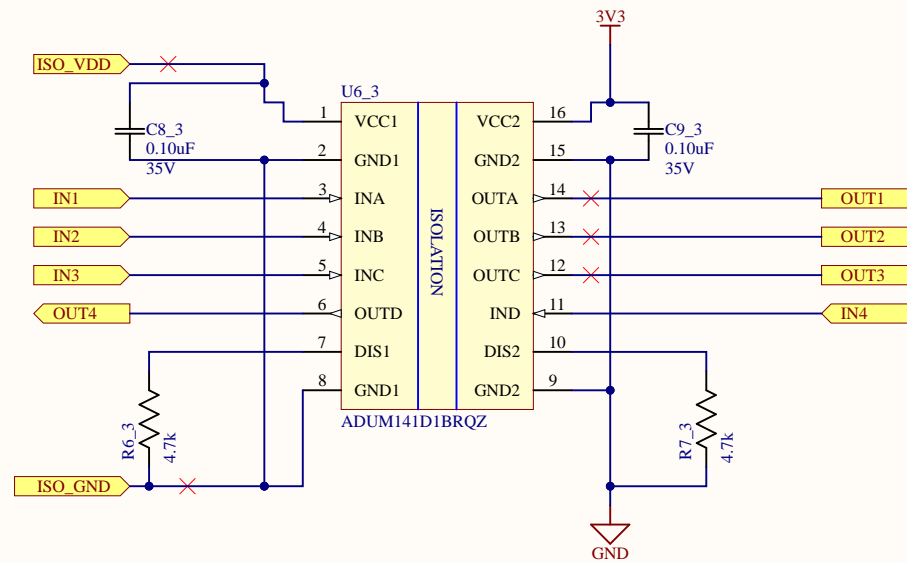
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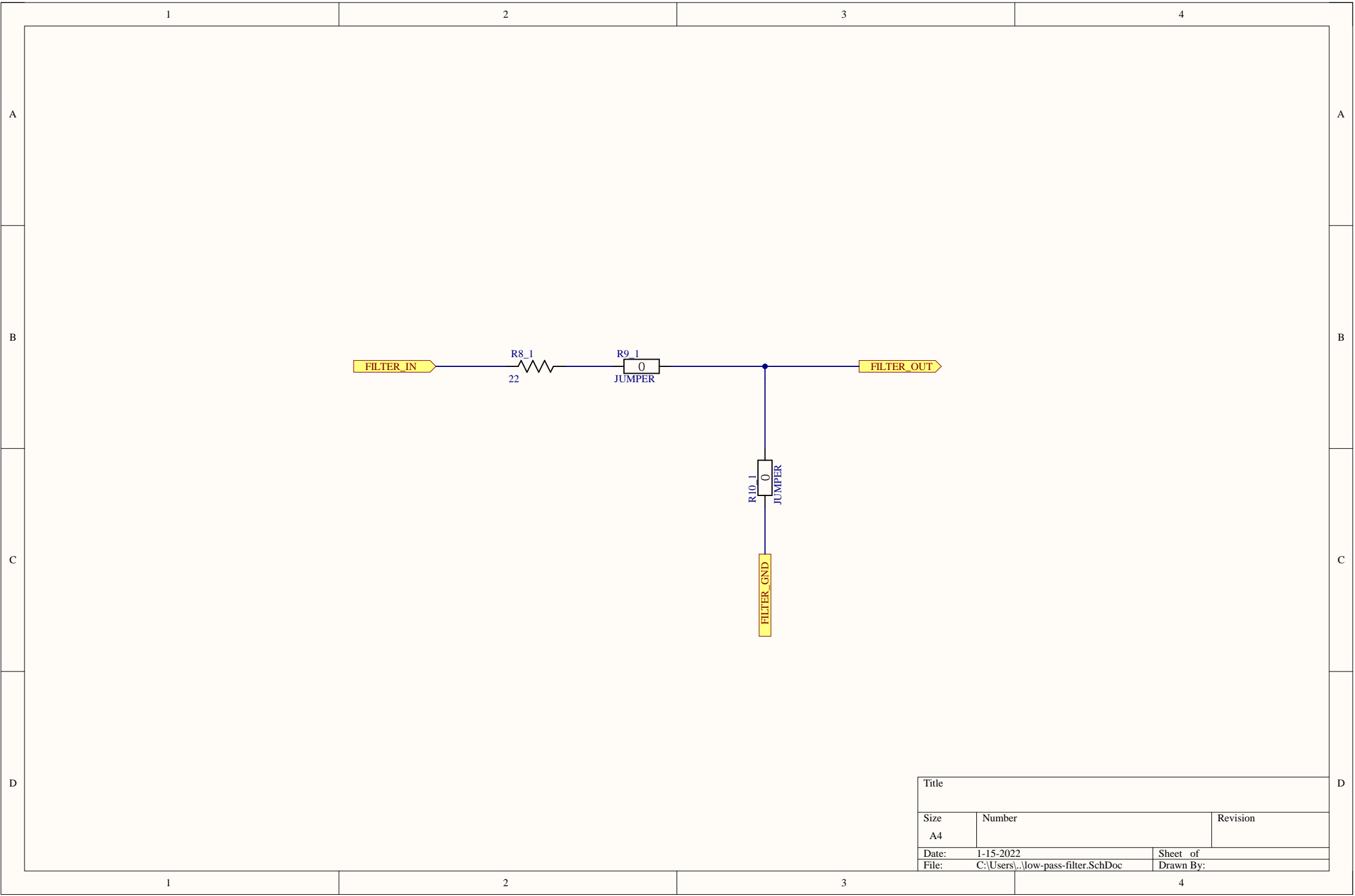
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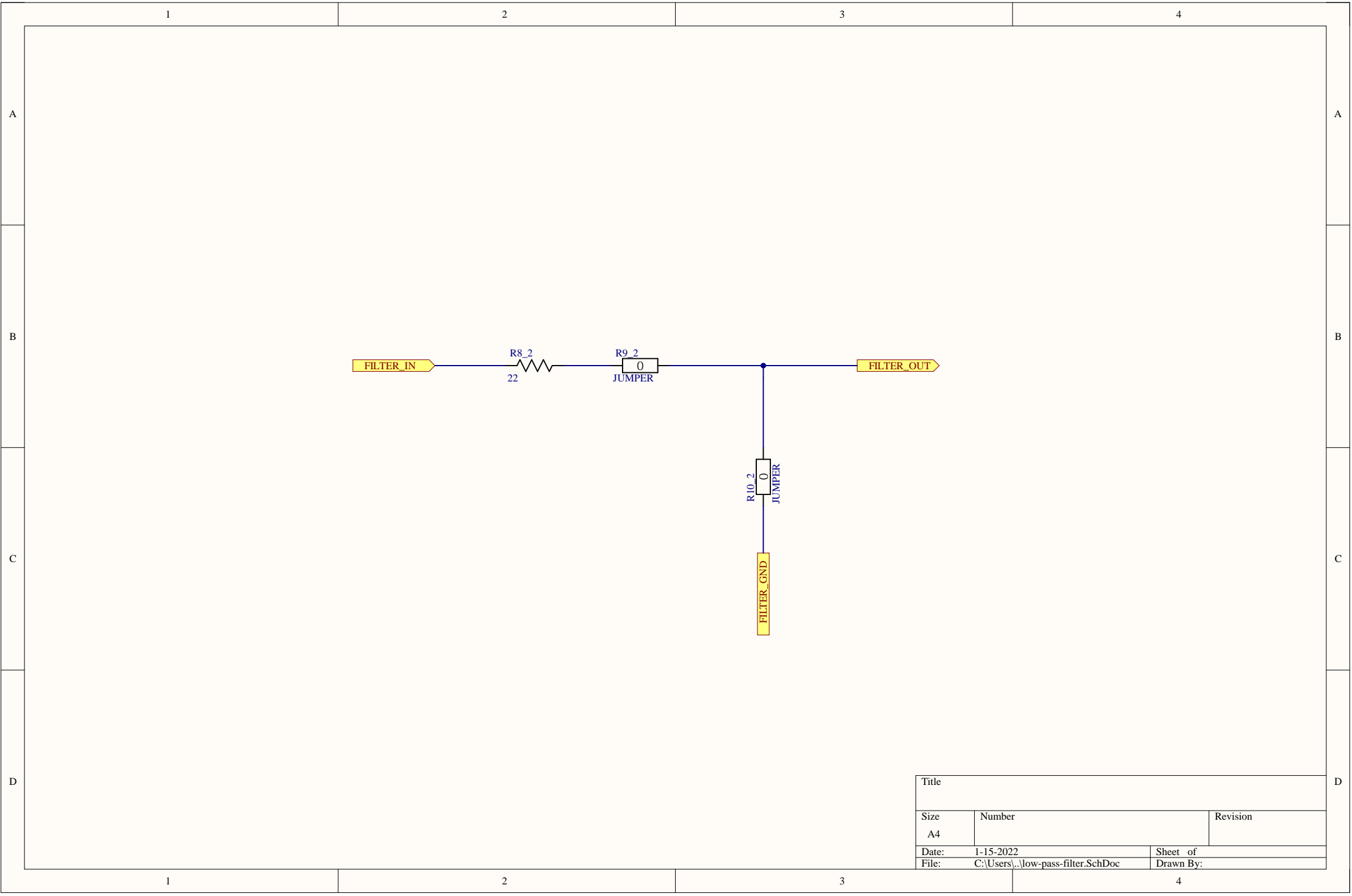


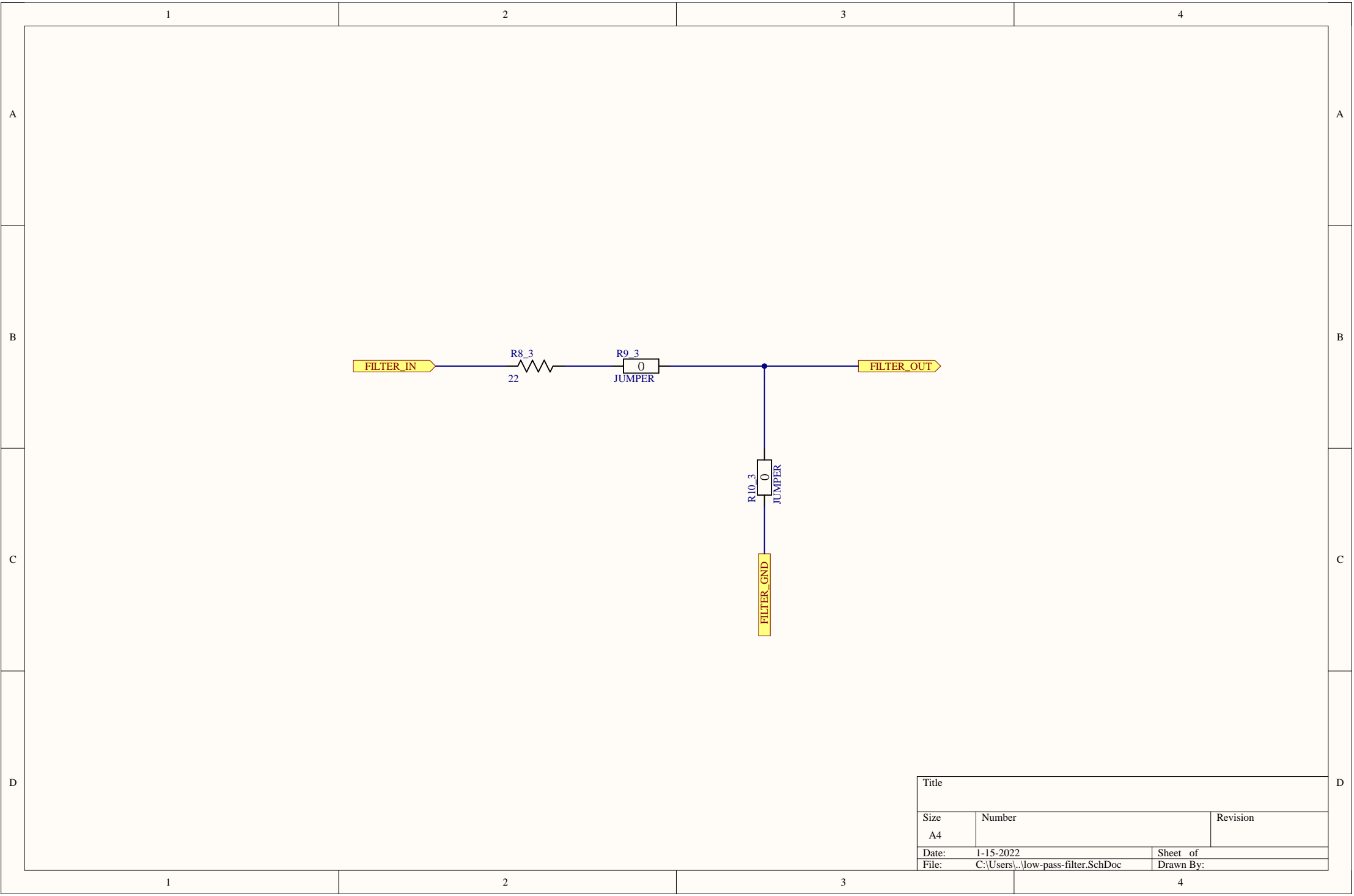
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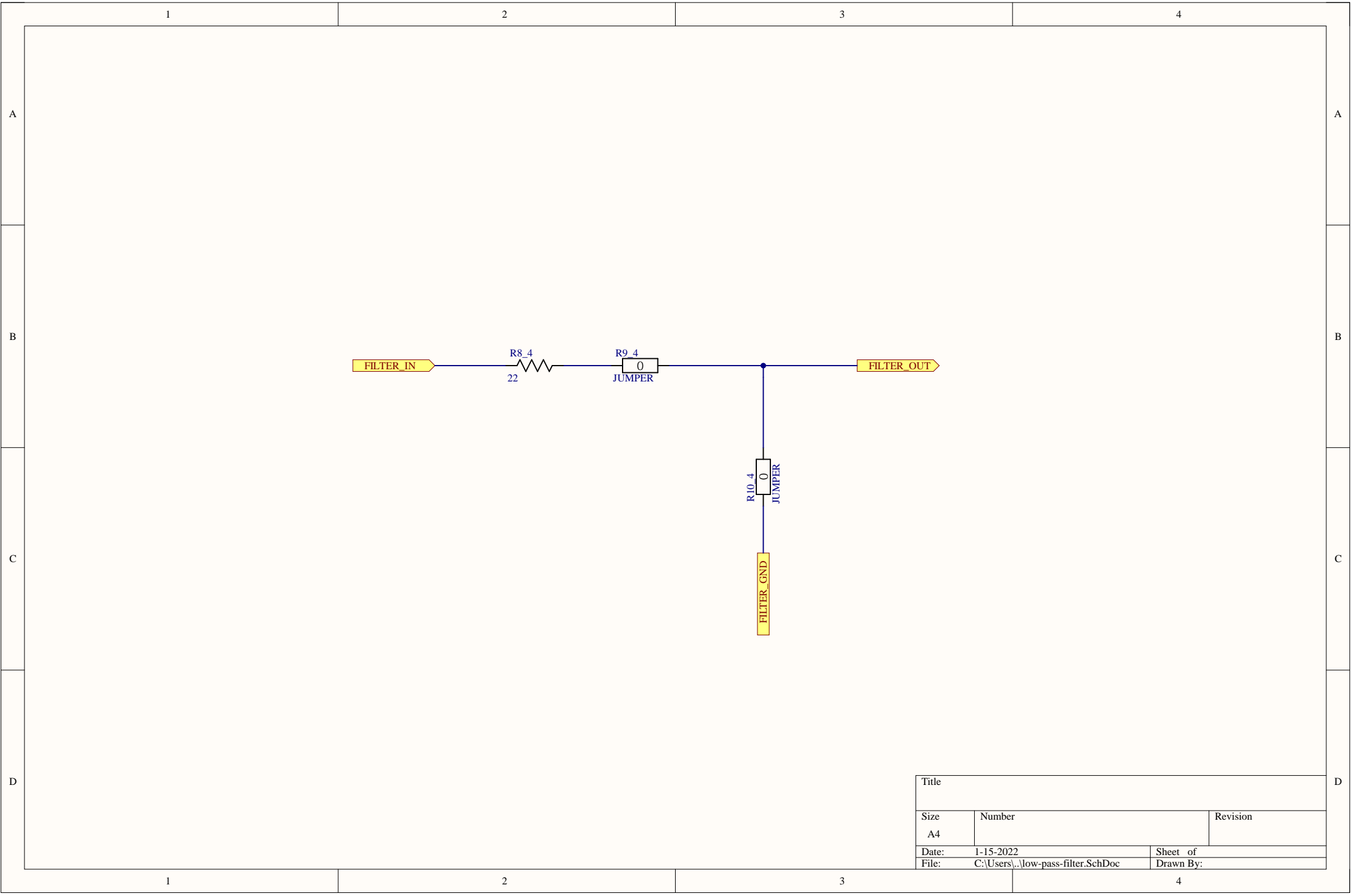


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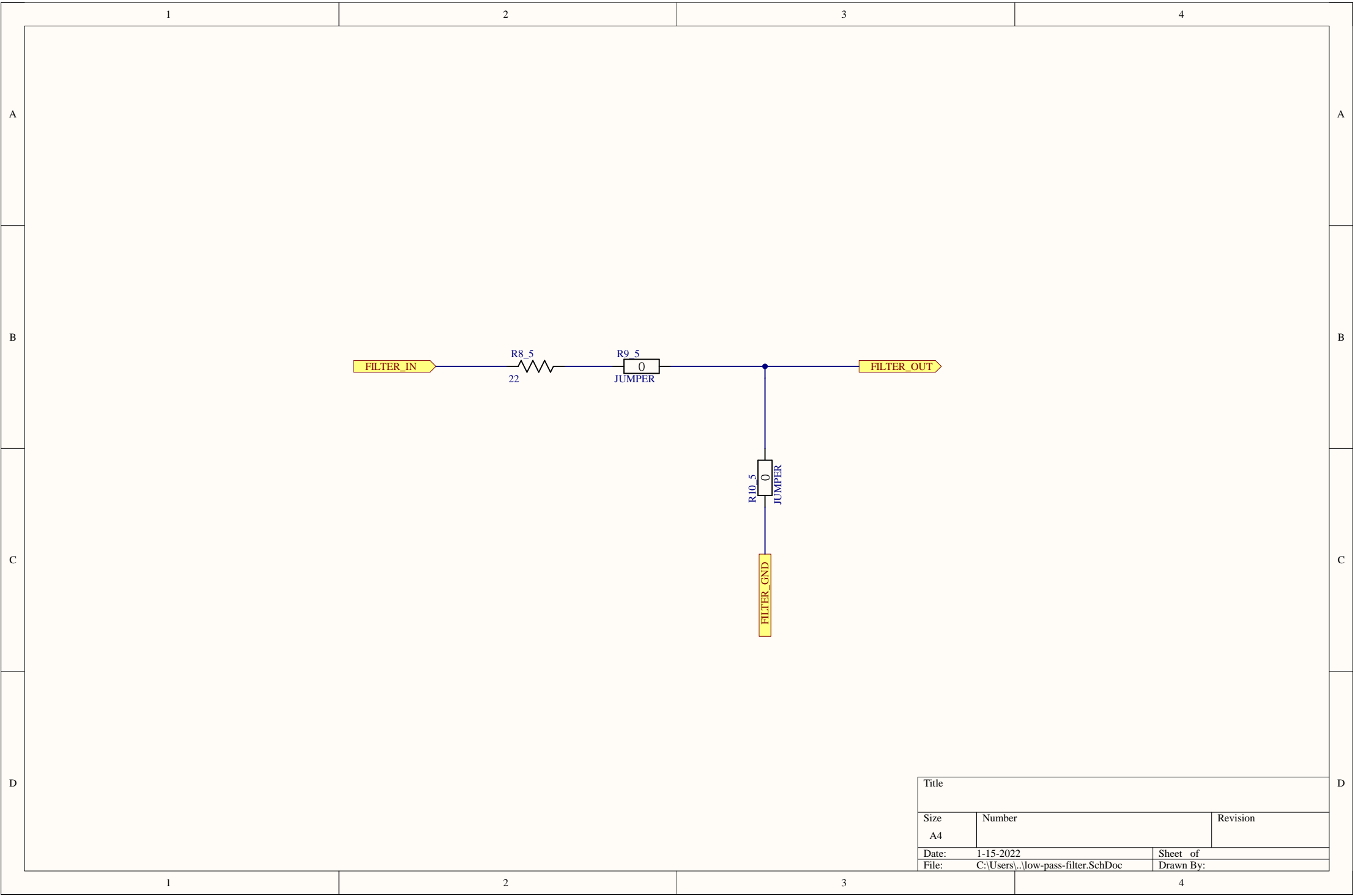




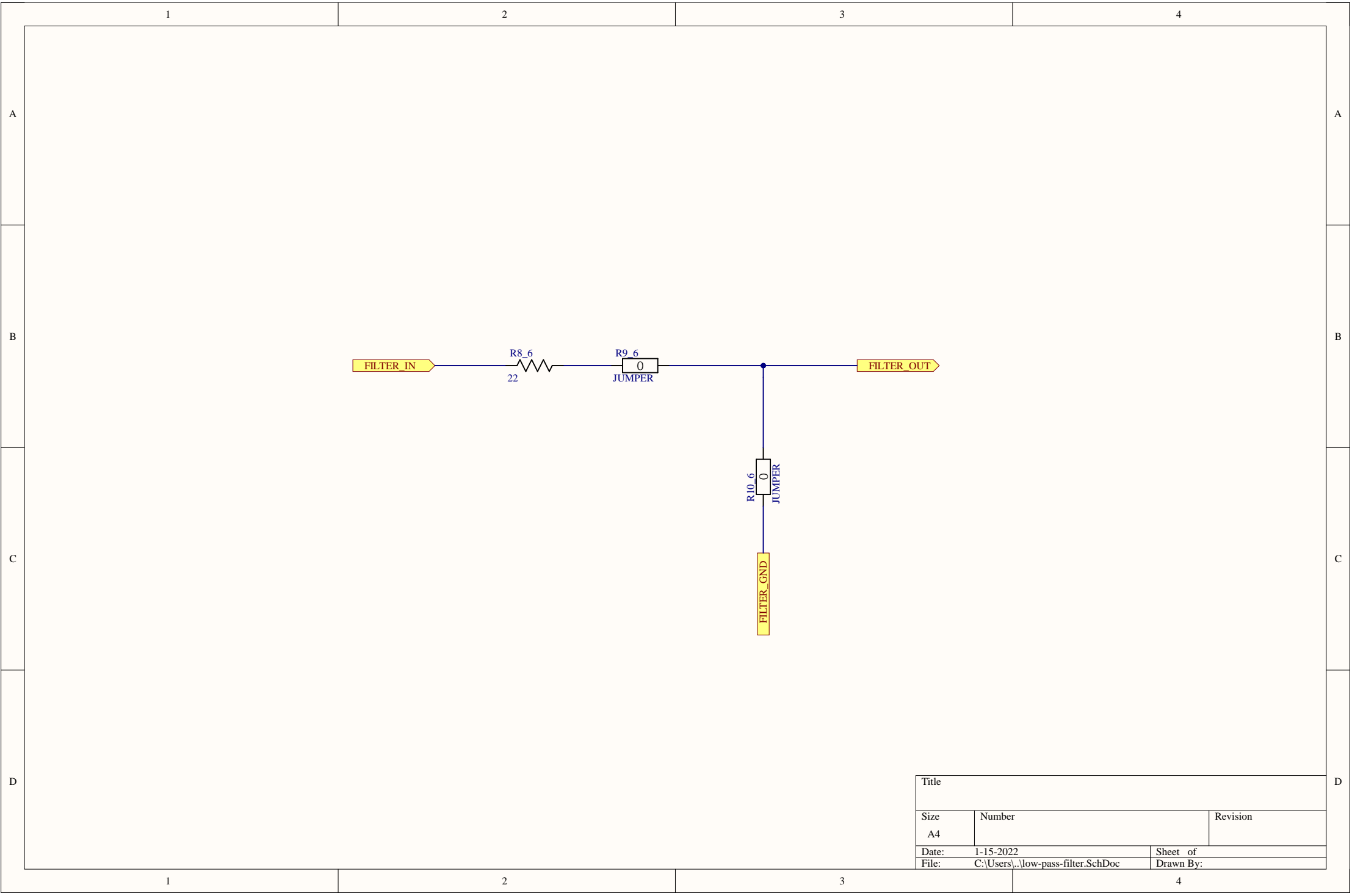


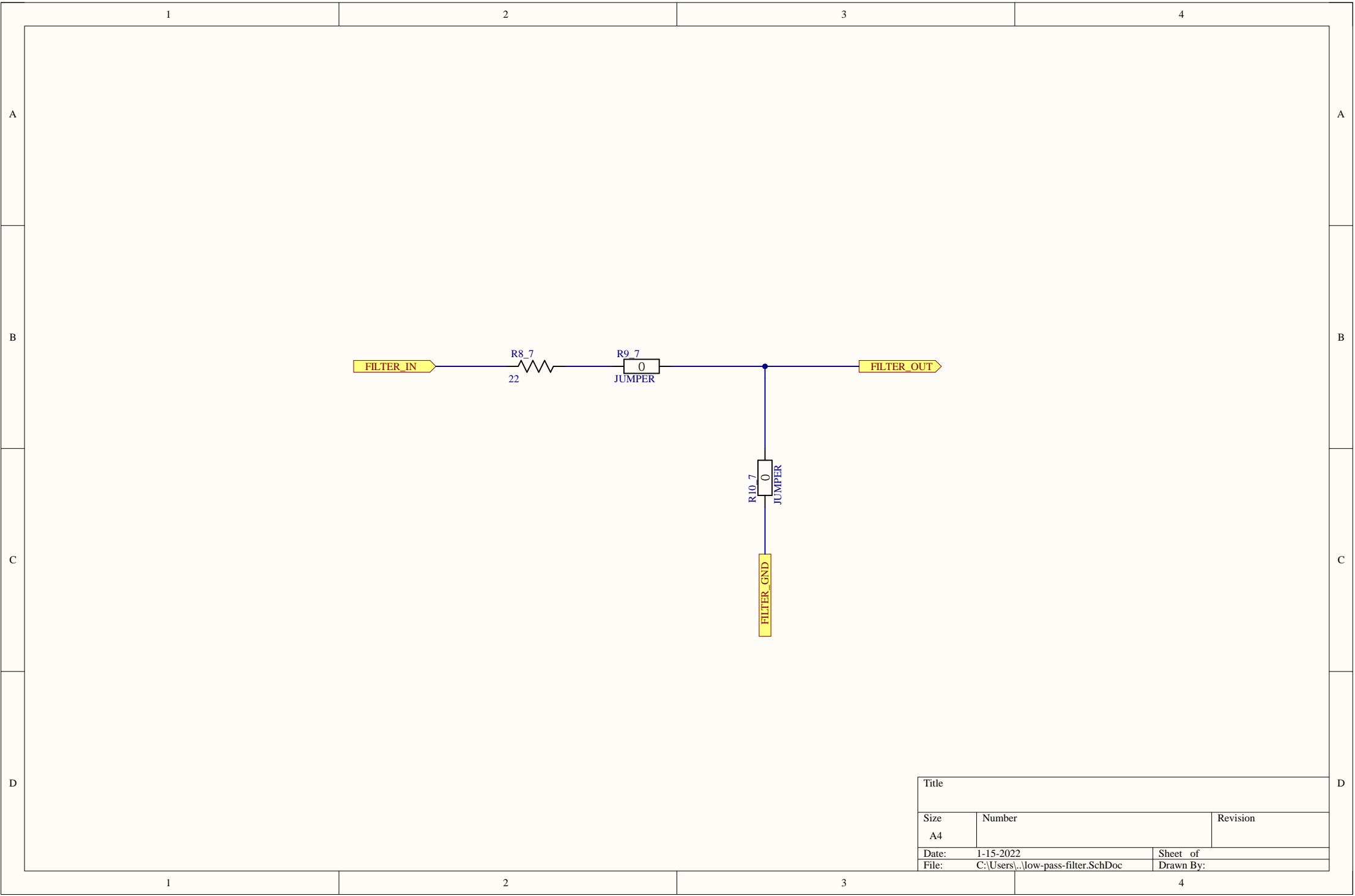


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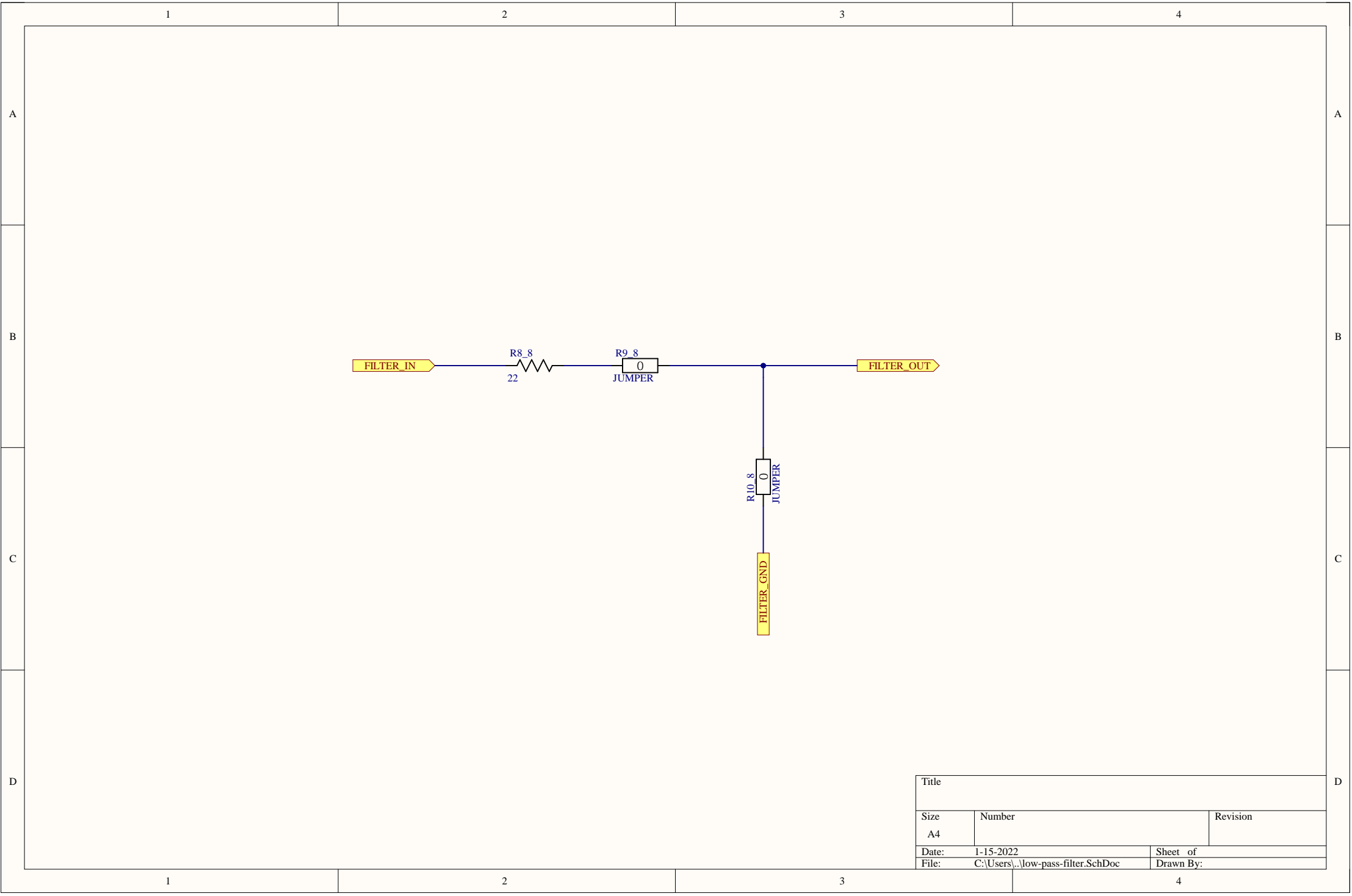


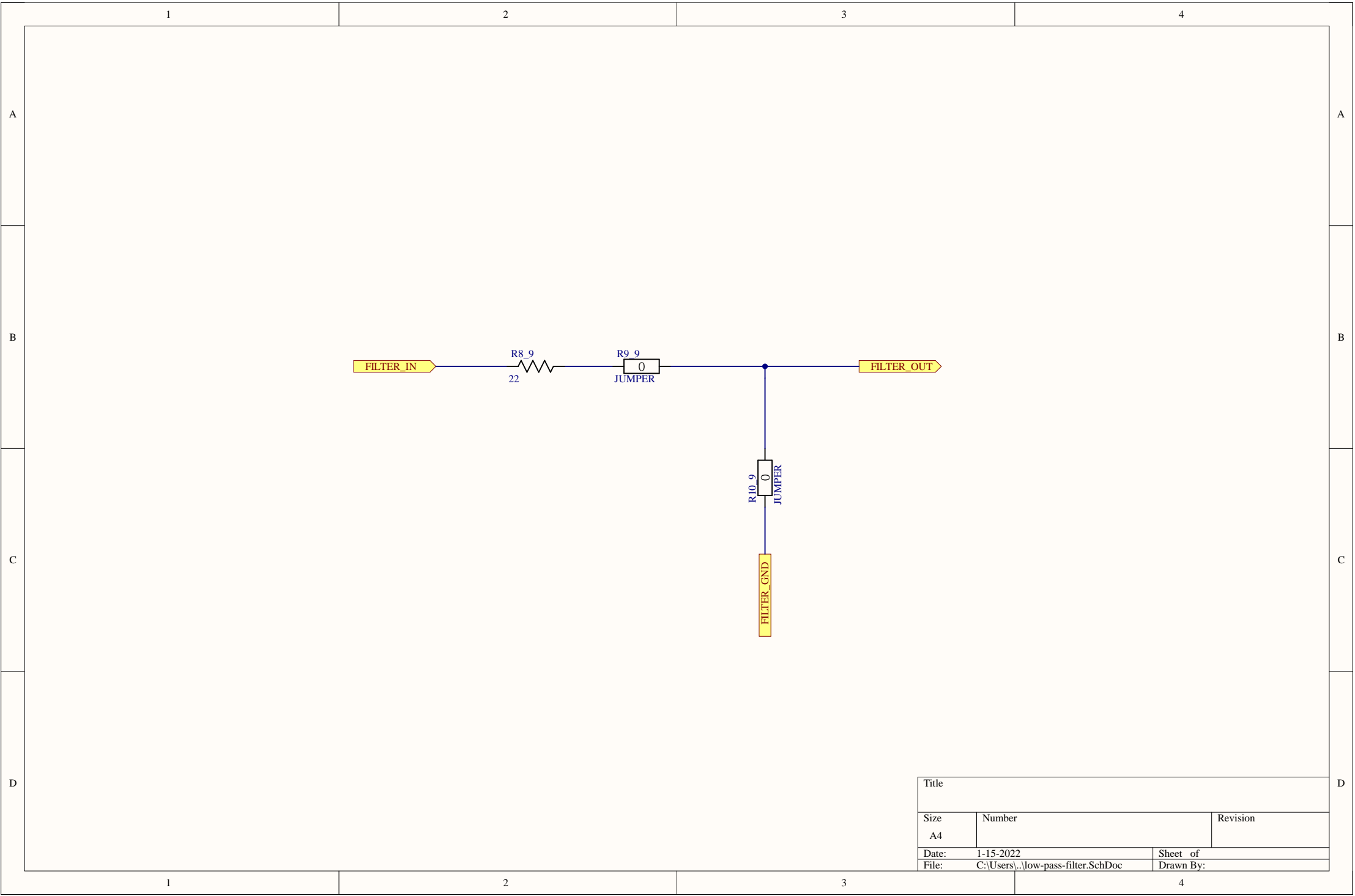
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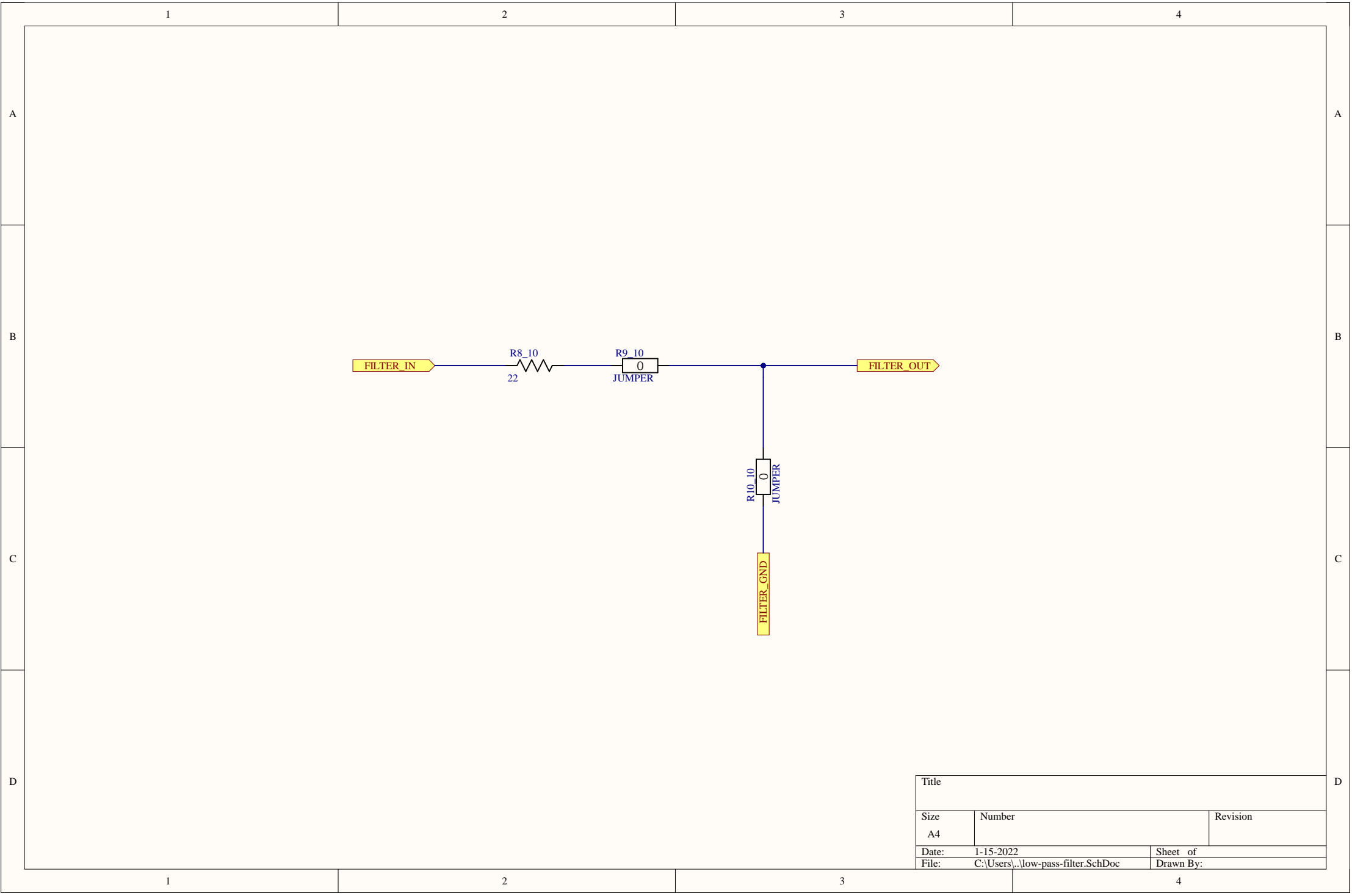




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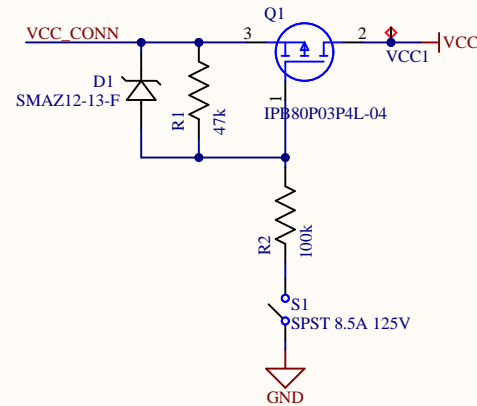
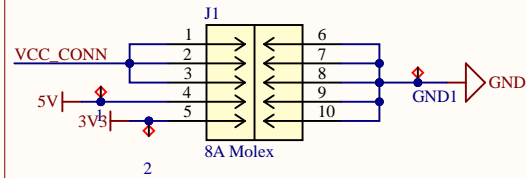




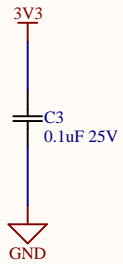
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Power Interface

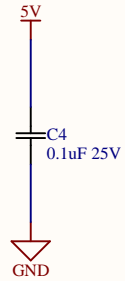
Power Board Connection



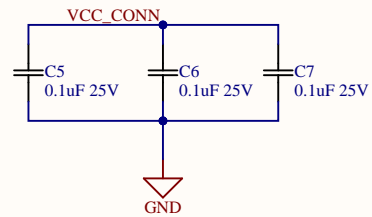
3V3 Power Conditioning



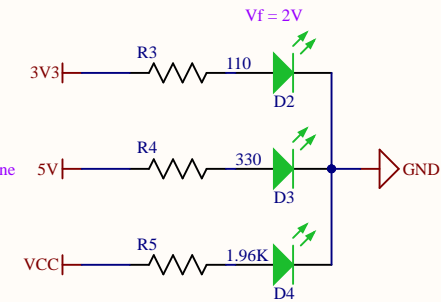
5V Power Conditioning



VCC Power Conditioning

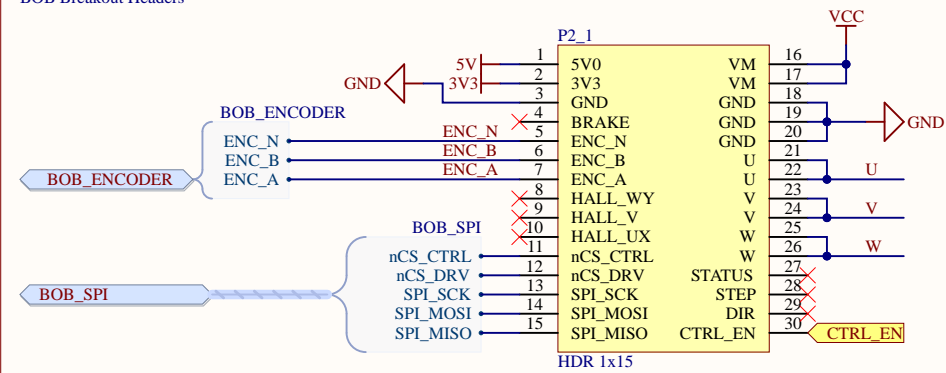


Power LEDs

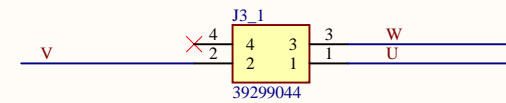


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BOB Breakout Headers

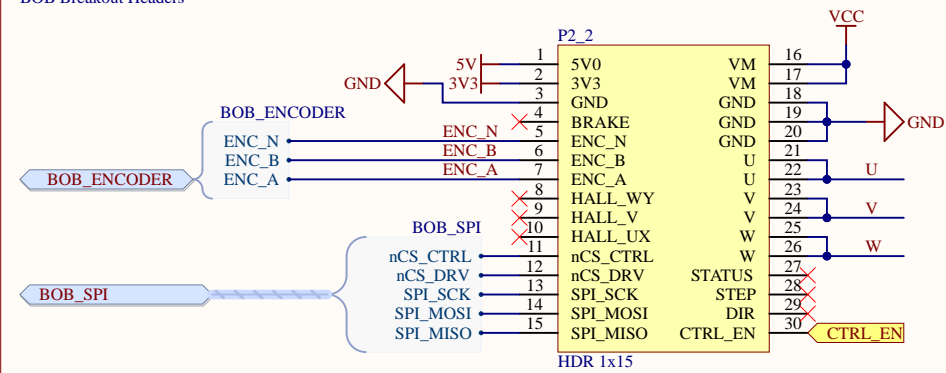


Motor Connectors

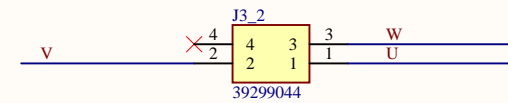


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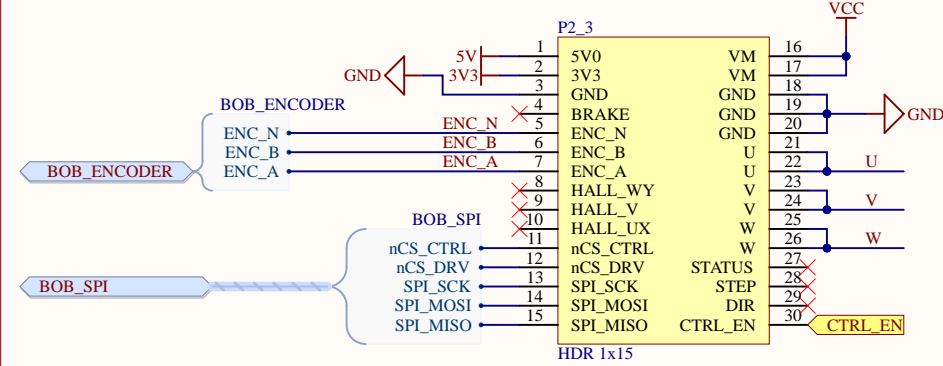


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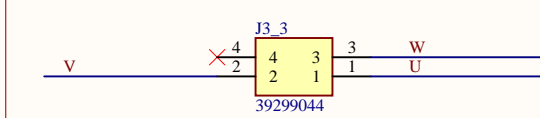


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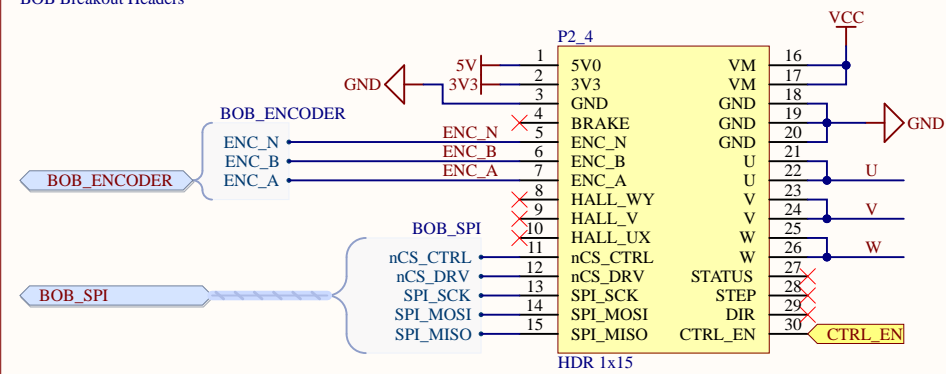


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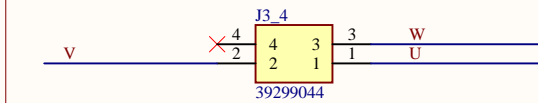


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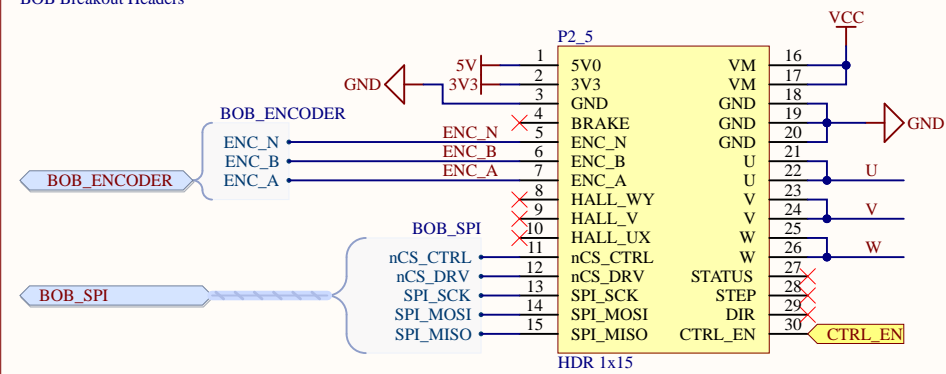


Motor Connectors

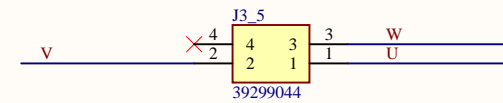


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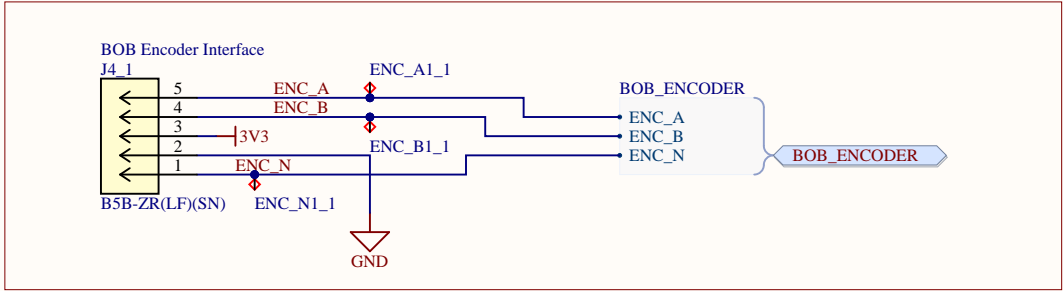
BOB Breakout Headers



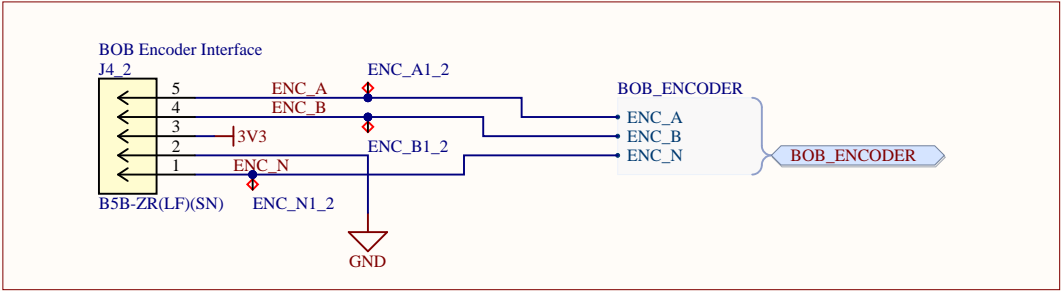
Motor Connectors



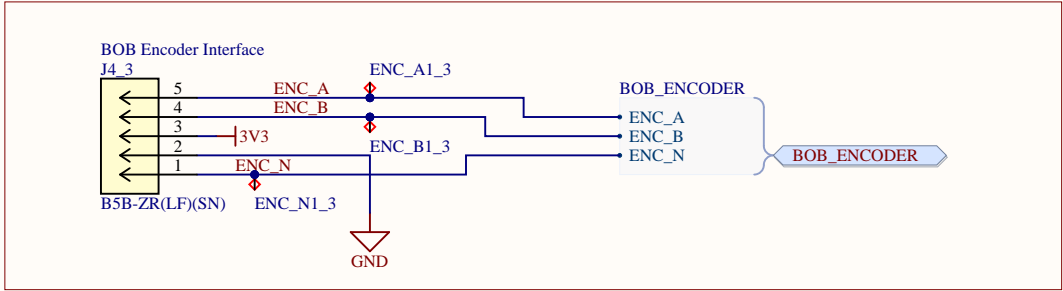
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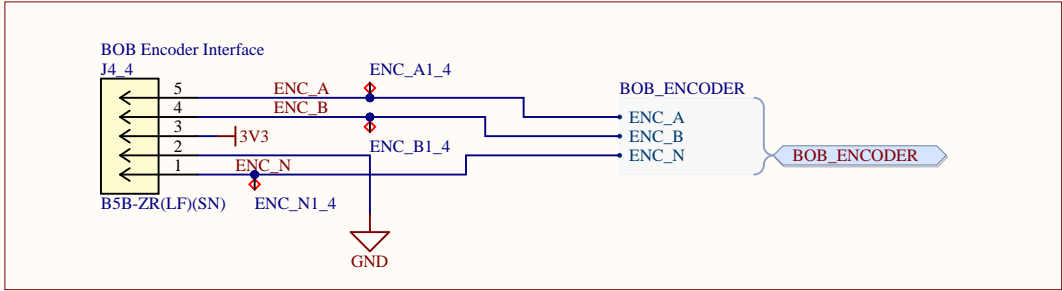
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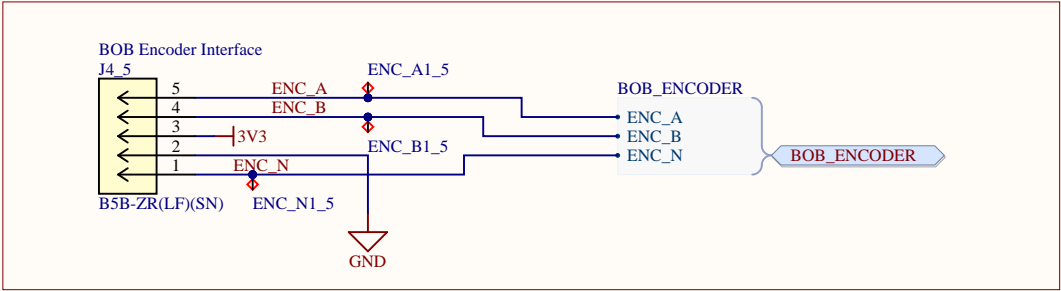
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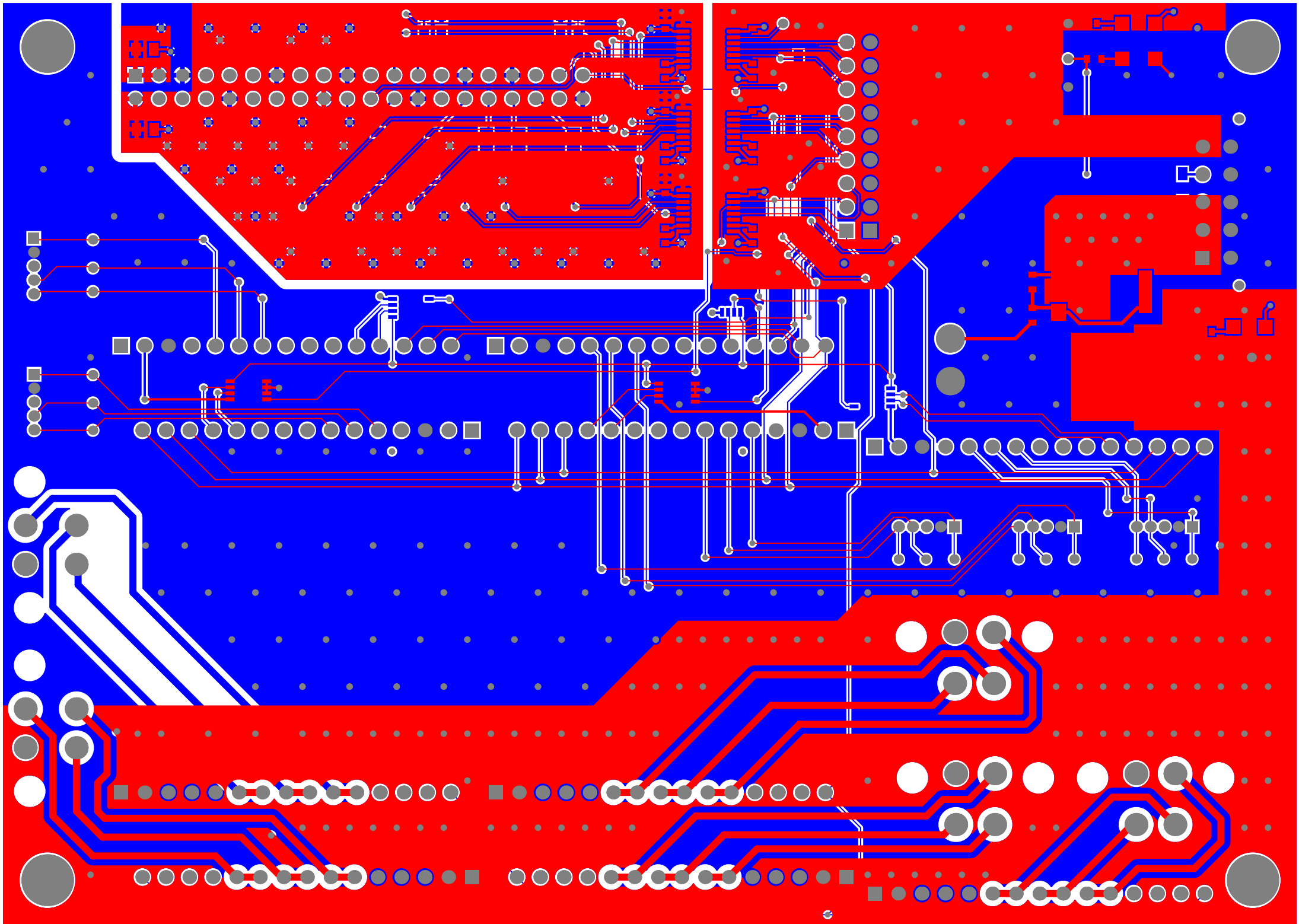
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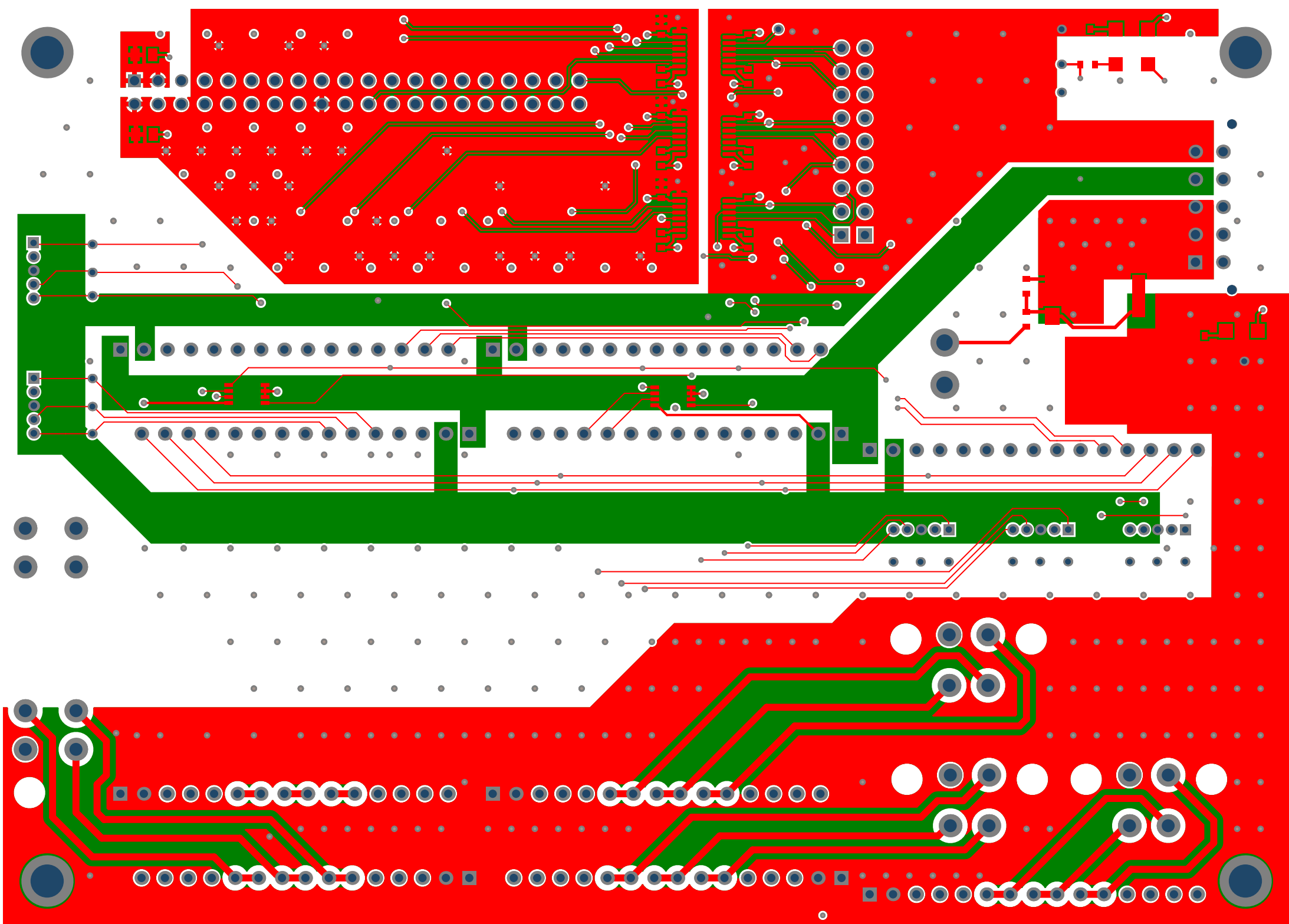


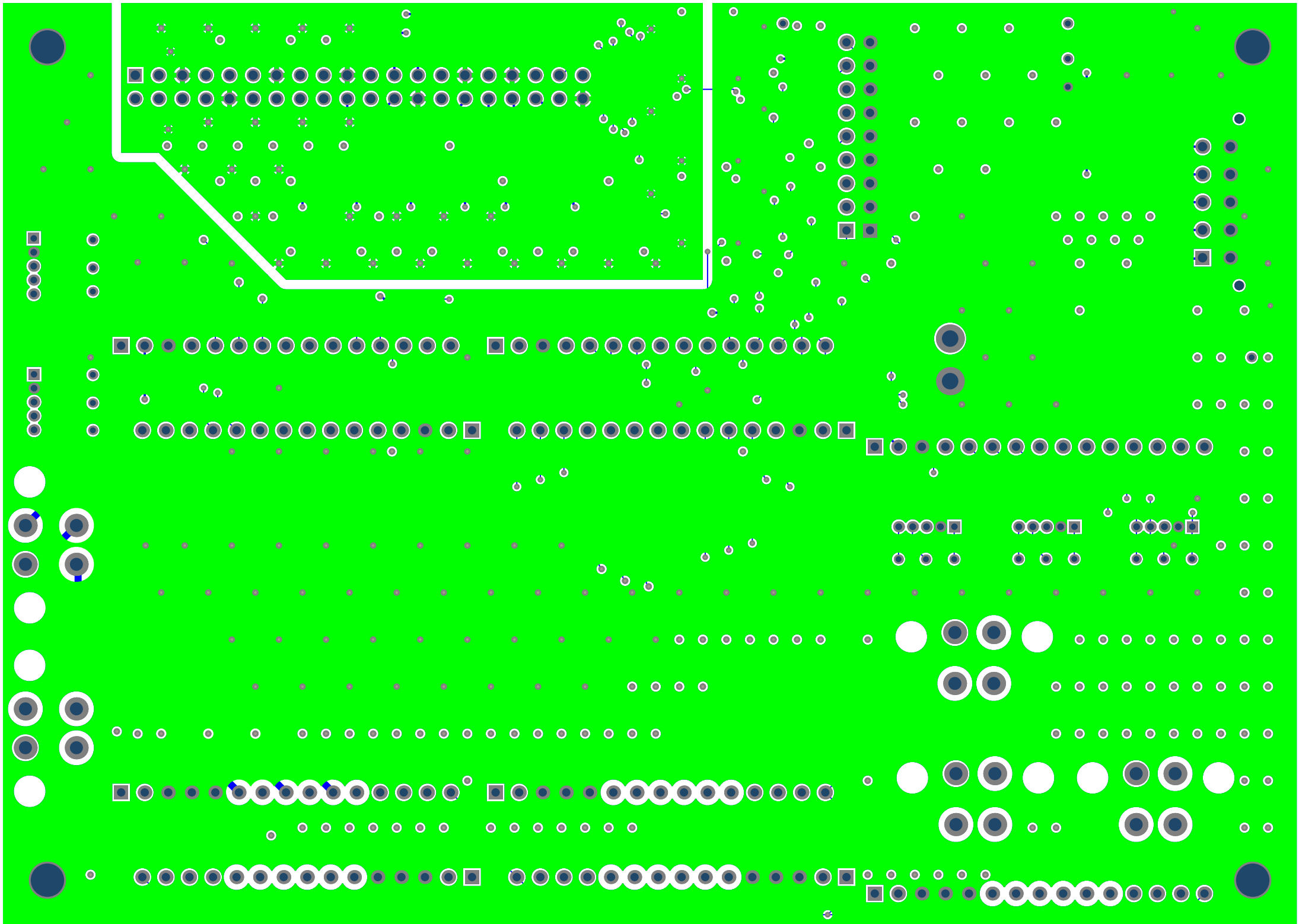
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Title		
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Date:	1-15-2022	Sheet of
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Comment	Description	Designator	Footprint	LibRef	Quantity
Test Point (Via)		1, 2, C55, ENC_A1_1, ENC_A1_2, ENC_A1_3, ENC_A1_4, ENC_A1_5, ENC_B1_1, ENC_B1_2, ENC_B1_3, ENC_B1_4, ENC_B1_5, ENC_N1_1, ENC_N1_2, ENC_N1_3, ENC_N1_4, ENC_N1_5, GND1, VCC1	TP	Test Point (Via)	20
0.1uF 25V	CAP CER 0.1uF 25V X7R 0805/0603	C1, C2, C3, C4, C5, C6, C7	0805	CAP 0.1uF 25V	7
0.10uF	CAP CER 0.10uF 35V X7R 0603/0805	C8_1, C8_2, C8_3, C9_1, C9_2, C9_3	0603	CAP 0.10uF 35V	6
SMAZ12-13-F	Zener Diode 12 V 1 W ±5% Surface Mount SMA	D1	SMA_DIO-L	DIODE ZENER 12V 1W	1
LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D2, D3, D4	3.2X1.6X1.1	LED GREEN SMD	3
8A Molex	CONN HEADER VERT 10POS 3MM	J1	MOLEX_0430451012	CN HDR 10POS MOLEX 0430451012	1
CN HDR 40POS TH	SSO - Samtec 2.54mm Square Tail Dual Row Socket Strip 8.5mm Profile	J2	SAMTEC_SSO-120-22-G-D	CN HDR 40POS TH	1
39299044	Molex 39299044 4POS Minifit dual row, vertical	J3_1, J3_2, J3_3, J3_4, J3_5	39299044	CN HDR 4POS Molex CN HDR 4POS Molex 39299044 VERT	5
B5B-ZR(LF)(SN)	Connector Header Through Hole 5 position 0.059 (1.50mm)	J4_1, J4_2, J4_3, J4_4, J4_5	JST_B5B-ZR(LF)(SN)	CN 5POS JST ZR	5
CN HDR 18POS 2x9		P1	HDR2x9	CN HDR 18POS 2x9	1
HDR 1x15		P2_1, P2_2, P2_3, P2_4, P2_5	TRINAMIC_BOB	TRINAMIC_BOB	5
IPB80P03P4L-04	P-Channel 30 V 80A (Tc) 137W (Tc) Surface Mount PG-T0263-3-2	Q1	IPB80P03P4L04	MOSFET IPB80P03P4L-04	1
47k	RES SMD 47k OHM 5% 1/8W 0805	R1	0603	RES 47k 1/8W - 5%	1
100k	RES SMD 100K OHM 5% 1/8W 0805/0603	R2	0603	RES 100k 1/8W - 5%	1
110	RES SMD 110 OHM 1% 1/8W 0805/0603	R3	0603	RES 110.0 1/8W - 1%	1
330	RES SMD 330 OHM 5% 1/8W 0805	R4	0603	RES 330.0 1/8W - 5%	1
1.96K	RES SMD 1.96K OHM 1% 1/8W 0805	R5	0603	RES 1.96k 1/8W	1
4.7k	RES SMD 4.7k OHM 5% 1/8W 0805	R6_1, R6_2, R6_3, R7_1, R7_2, R7_3	0603	RES 4.7k 1/8W - 5%	6
22	RES SMD 22 OHM 5% 1/8W 0805	R8_1, R8_2, R8_3, R8_4, R8_5, R8_6, R8_7, R8_8, R8_9, R8_10	0805	RES 22.0 1/8W	10
JUMPER	RES SMD 0 OHM JUMPER GENERIC 0805/0603	R9_1, R9_2, R9_3, R9_4, R9_5, R9_6, R9_7, R9_8, R9_9, R9_10, R10_1, R10_2, R10_3, R10_4, R10_5, R10_6, R10_7, R10_8, R10_9, R10_10	0805	RES 0 JUMPER	20
SPST 8.5A 125V	SWITCH SLIDE SPST 8.5A 125V	S1	SPST GF-123-0054	SW SLIDE	1
1:2 Mux/Demux	74LVC Series 5.5 V SMT 2-Channel Analog Multiplexer/Demultiplexer - TSSOP-8	U1, U2, U3, U4, U5	TSOP65P400X110-8N	74LVC1G53DP,125	5
ADUM141D1BRQZ	Digital Isolator CMOS 4-CH 150Mbps 16-Pin OSOP T/R	U6_1, U6_2, U6_3	SOP64P600X175-16N	ISO ADUM141D1BRQZ	3