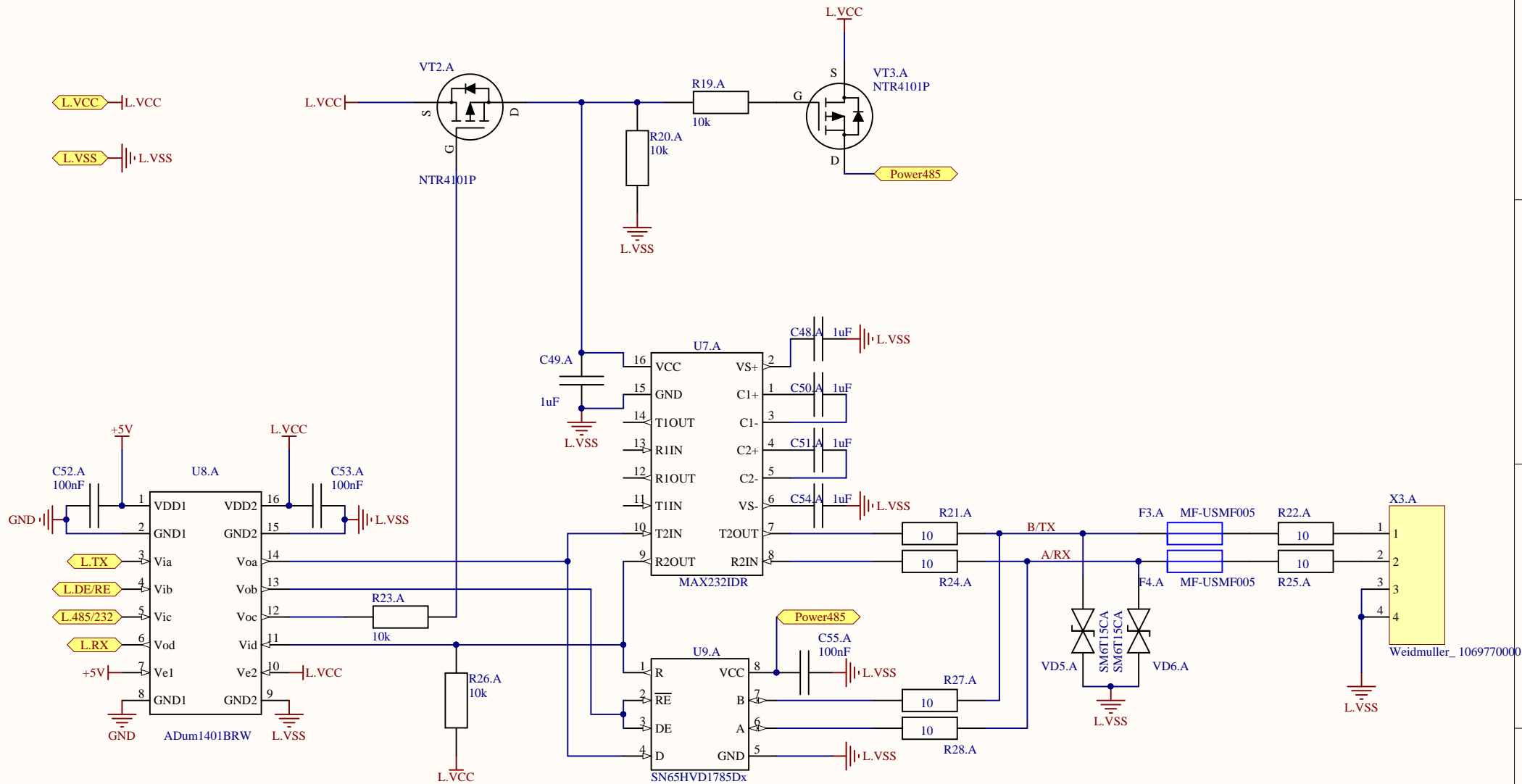
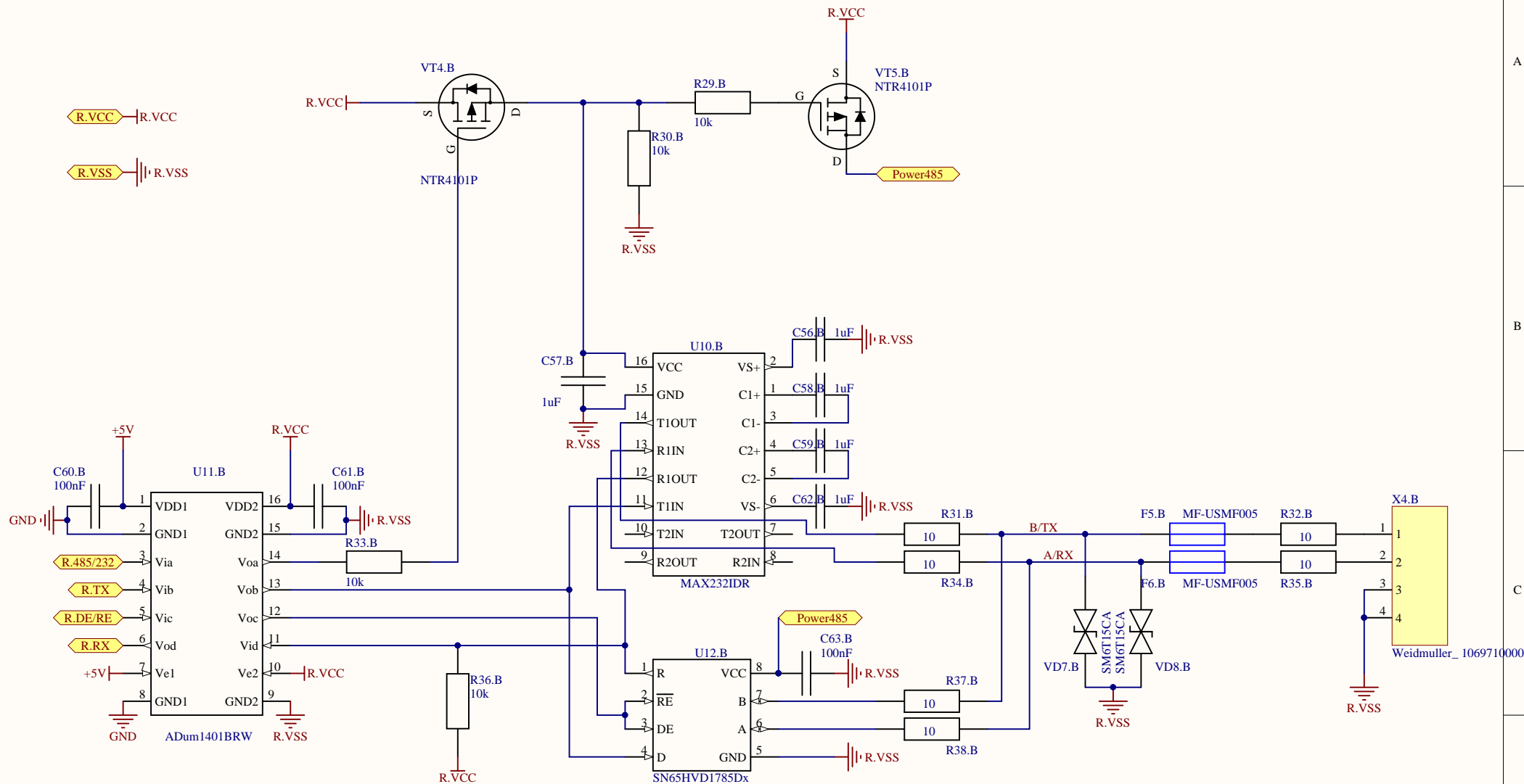


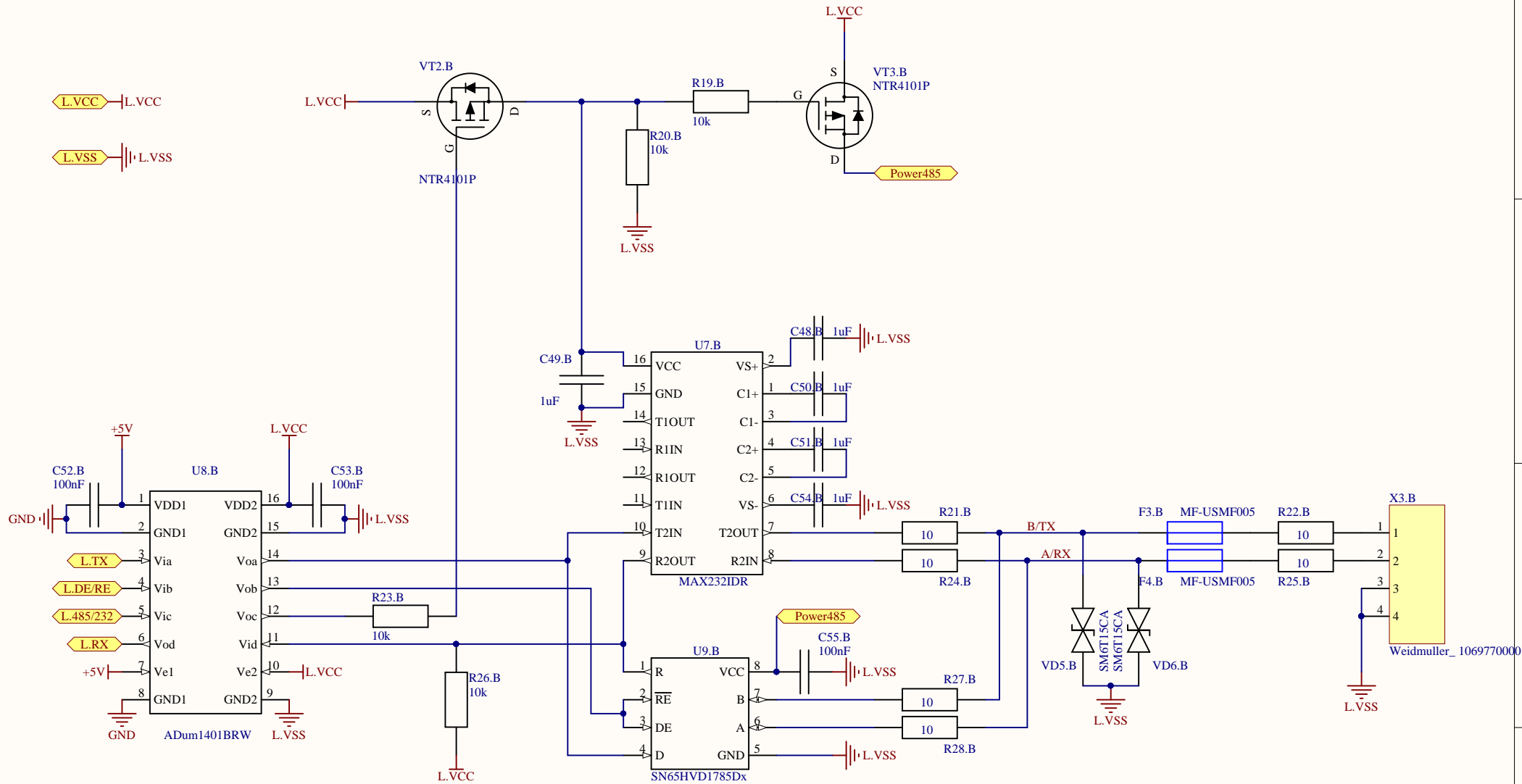
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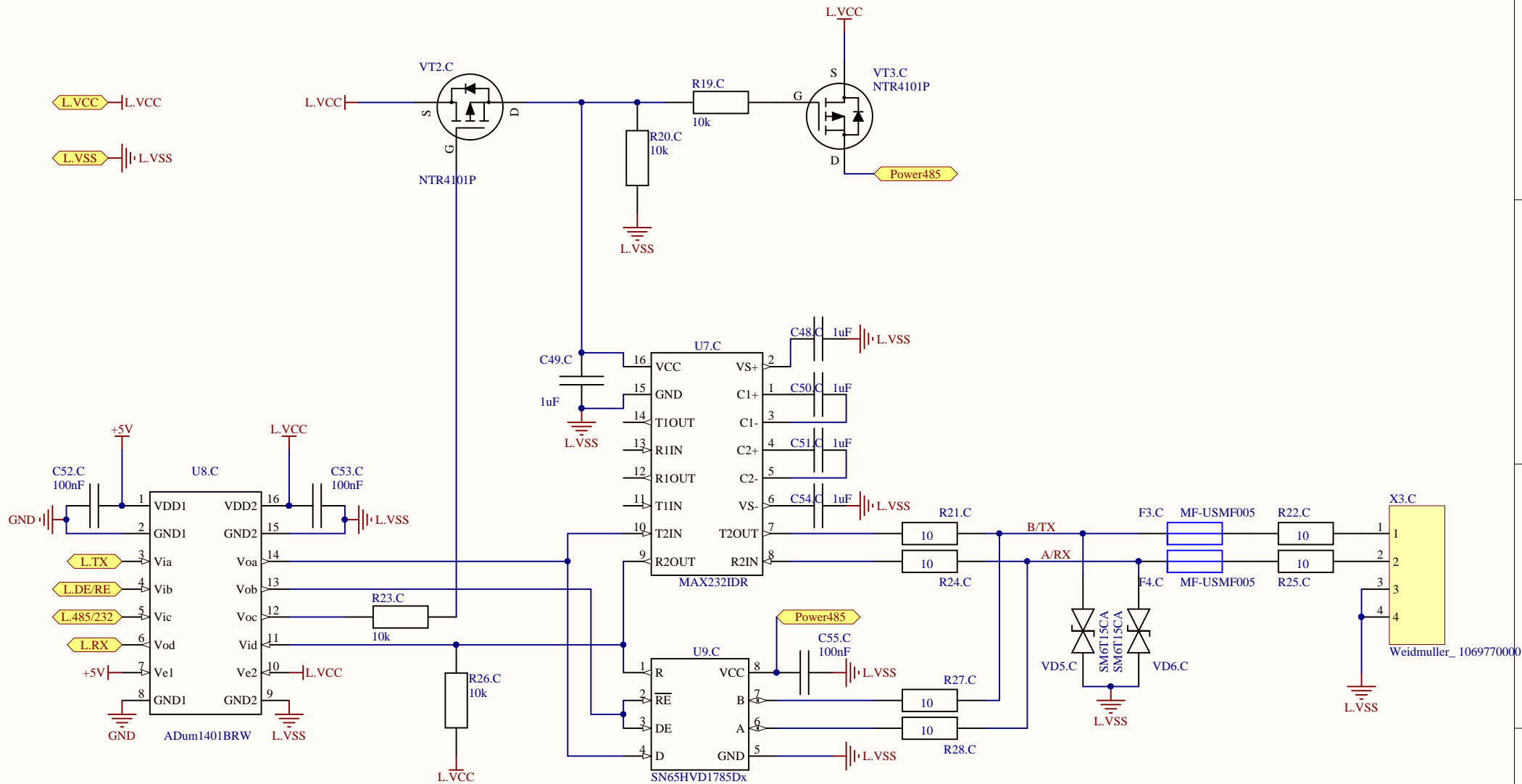
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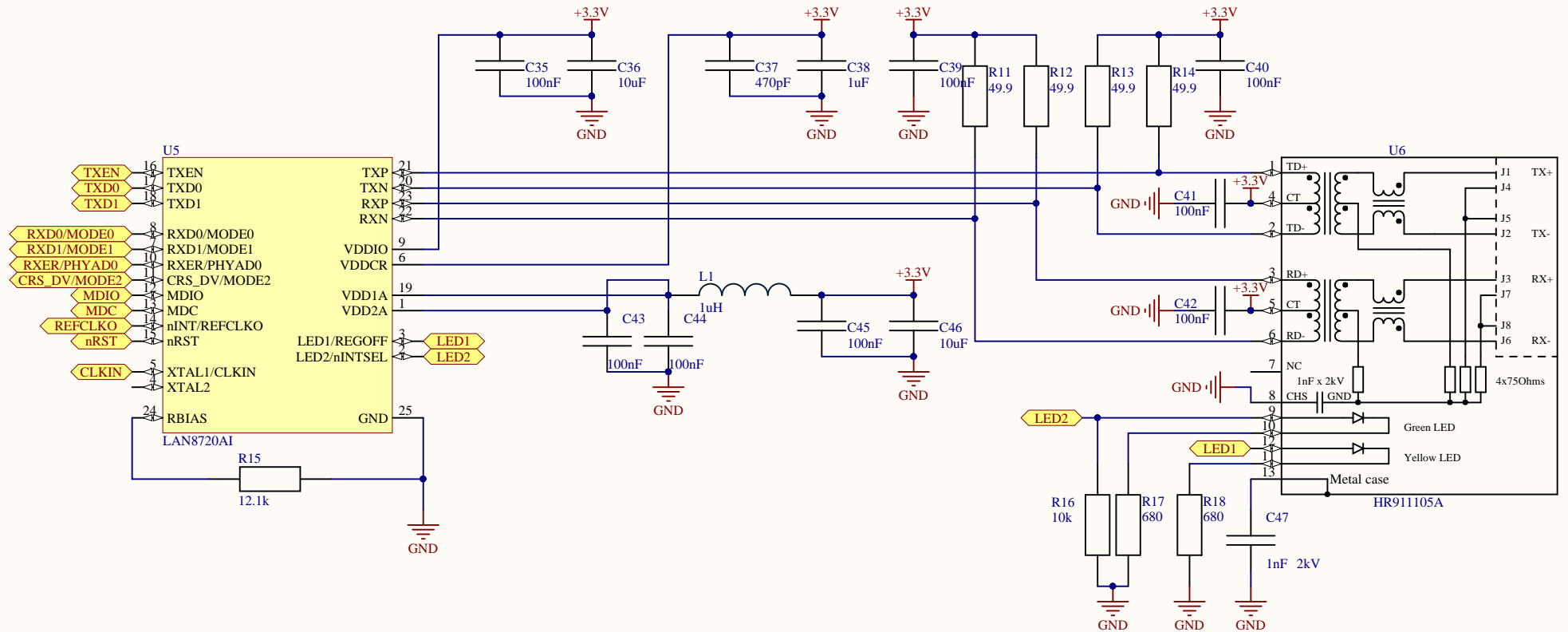
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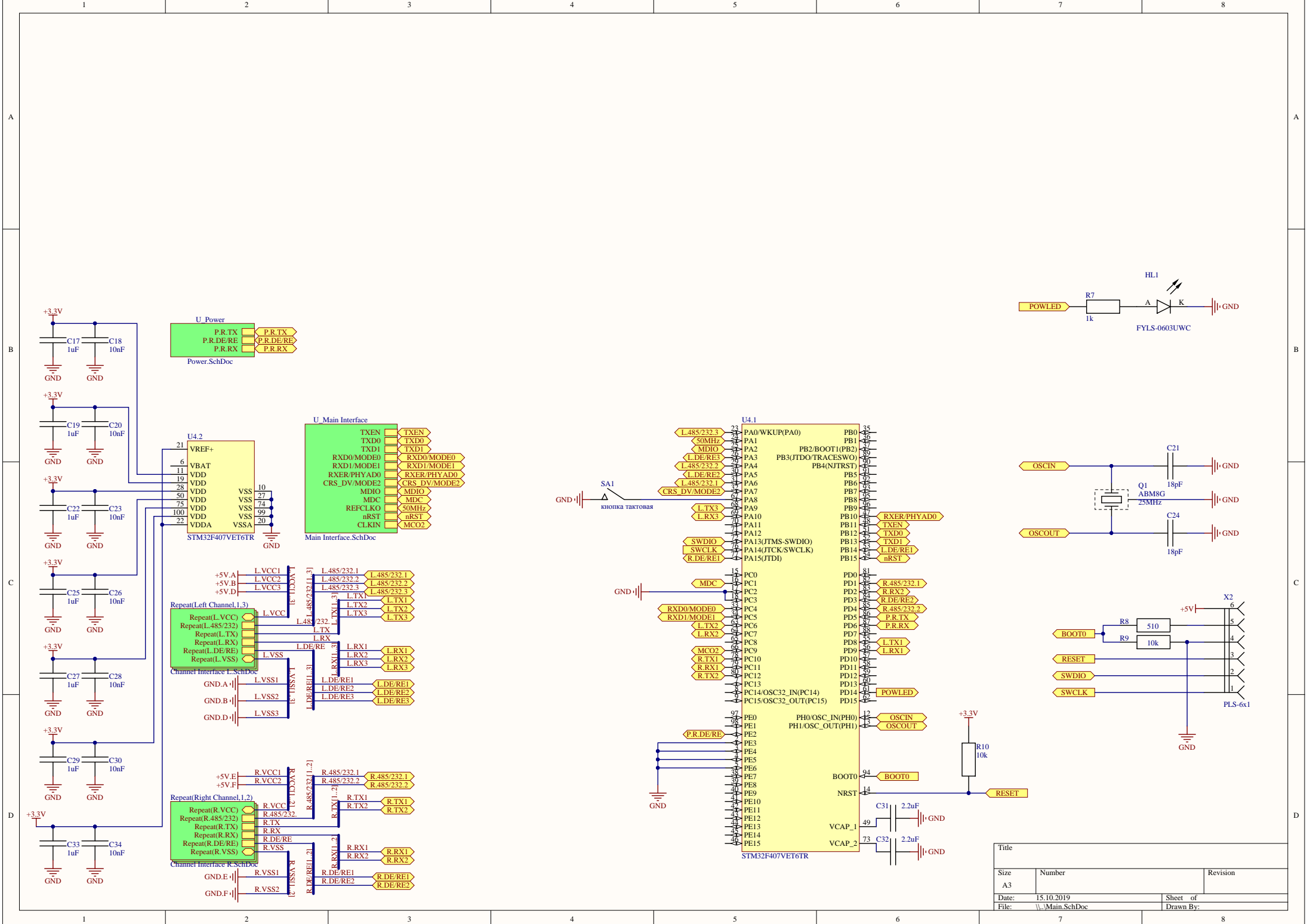
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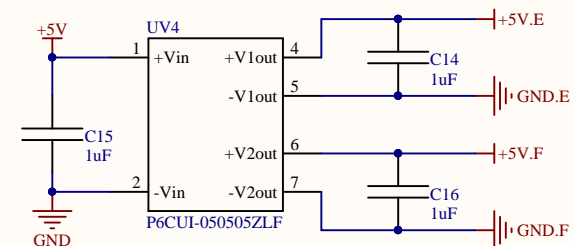
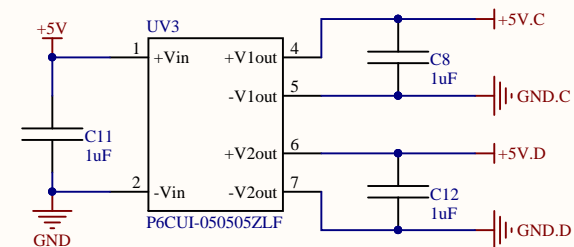
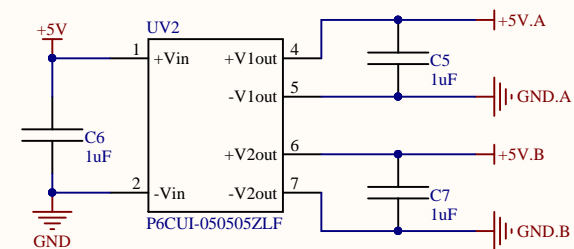
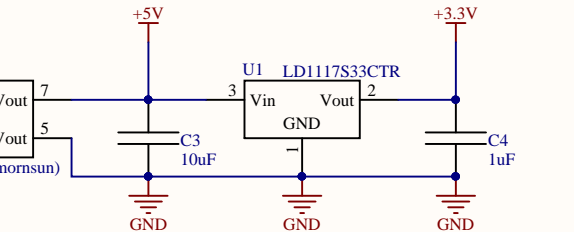
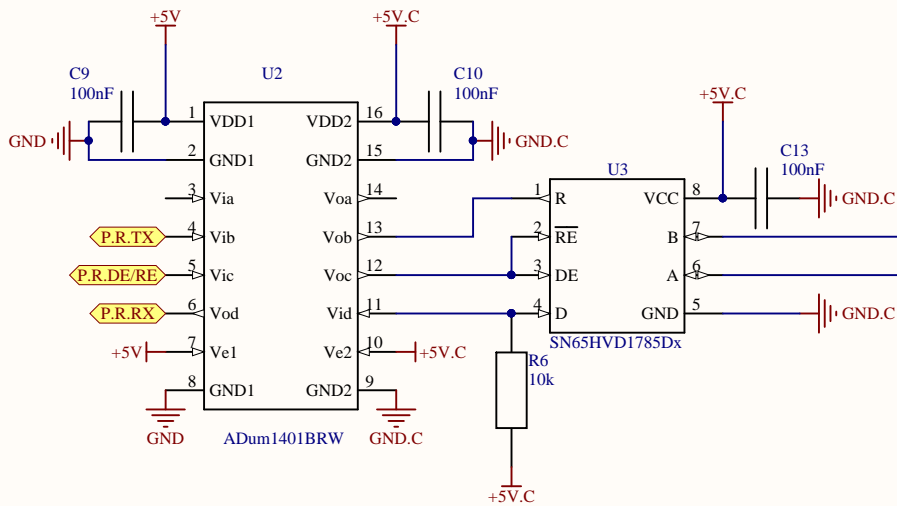
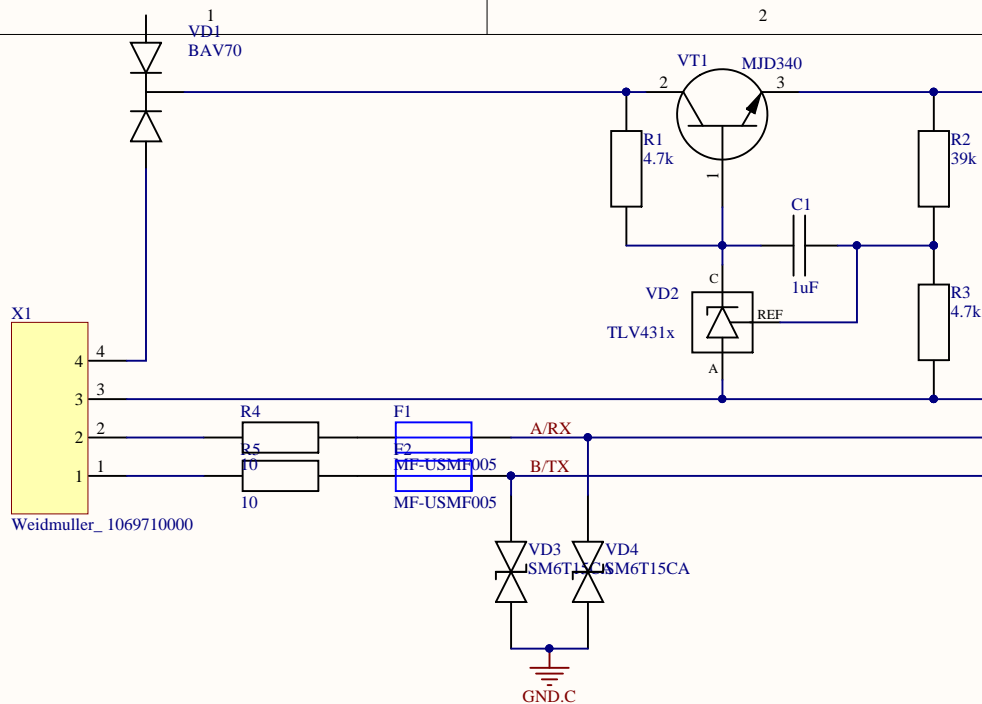


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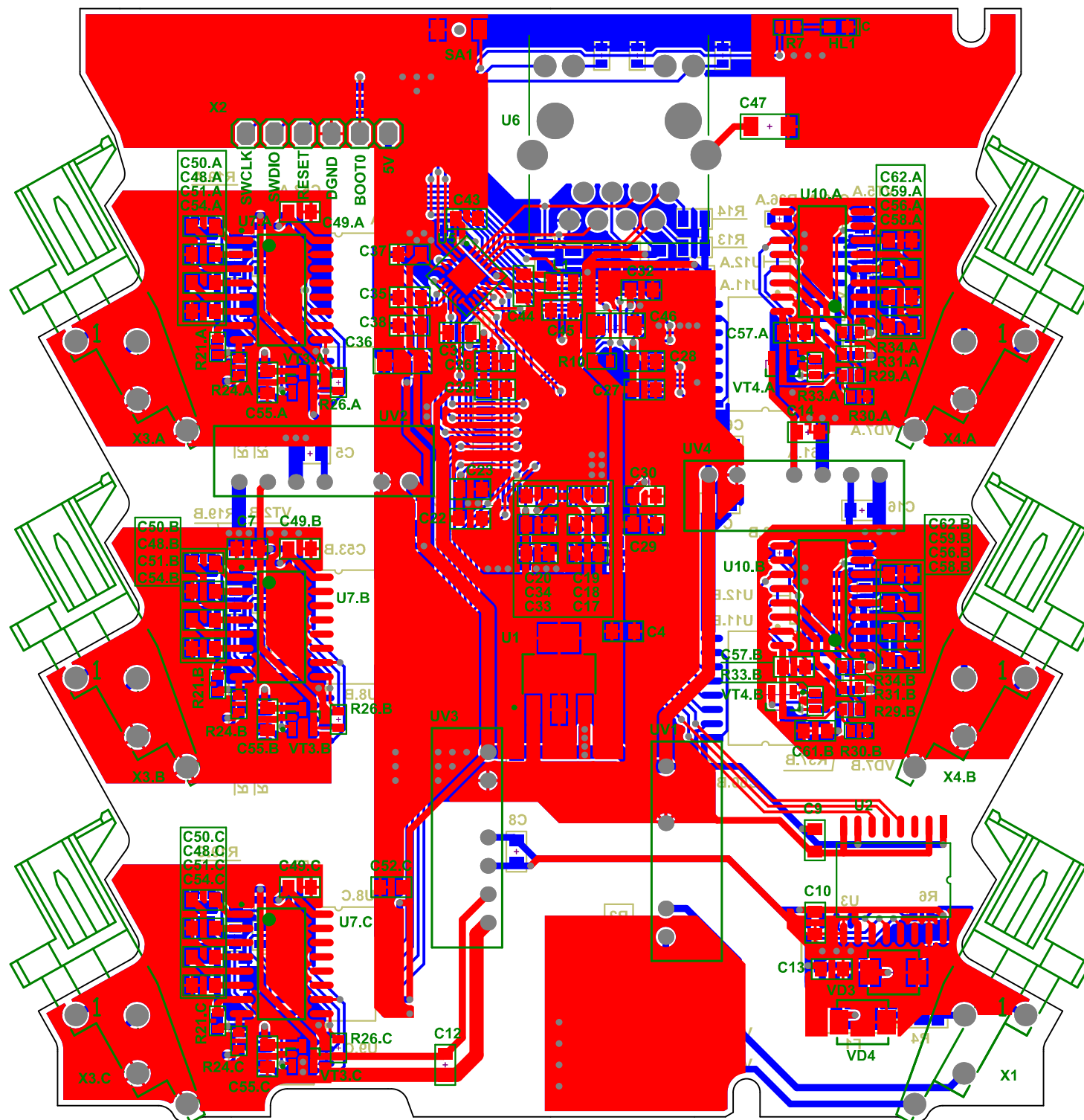


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Date:	15.10.2019	Sheet of
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Title		
Size	Number	Revision
A4		
Date:	15.10.2019	Sheet of
File:	\\c:\Power.SchDoc	Drawn By:



Designator	Quantity	Value	Precision	Comment	Footprint	Description
C1, C2, C4, C5, C6, C7, C8, C11, C12, C14, C15, C16, C17, C19, C22, C25, C27, C29, C33, C38, C48.A, C48.B, C48.C, C49.A, C49.B, C49.C, C50.A, C50.B, C50.C, C51.A, C51.B, C51.C, C54.A, C54.B, C54.C, C56.A, C56.B, C57.A, C57.B, C58.A, C58.B, C59.A, C59.B, C62.A, C62.B	45	1uF		Capacitor	C0805	ceramic chip capacitor
C3, C36, C46	3	10uF		Capacitor	C1206	ceramic chip capacitor
C9, C10, C13, C35, C39, C40, C41, C42, C43, C44, C45, C52.A, C52.B, C52.C, C53.A, C53.B, C53.C, C55.A, C55.B, C55.C, C60.A, C60.B, C61.A, C61.B, C63.A, C63.B	26	100nF		Capacitor	C0805	ceramic chip capacitor
C18, C20, C23, C26, C28, C30, C34	7	10nF		Capacitor	C0805	ceramic chip capacitor
C21, C24	2	18pF		Capacitor	C0805	ceramic chip capacitor
C31, C32	2	2.2uF		Capacitor	C0805	ceramic chip capacitor
C37	1	470pF		Capacitor	C0805	ceramic chip capacitor
C47	1	1nF		Capacitor	C1206	ceramic chip capacitor
F1, F2, F3.A, F3.B, F3.C, F4.A, F4.B, F4.C, F5.A, F5.B, F6.A, F6.B	12			MF-USMF005	F1210	PTC Resettable Fuse 0.05A
HL1	1			FYLS-0603UWC	FYLS-0603UWC	SMD LED
L1	1	1uH		LOM21FN1RON00D (MUR)	R0805	Inductor
Q1	1	25MHz		ABM8G	3.2x2.5 SMD CRYSTAL	Quarz in SMD package
R1, R3	2	4.7k	1%	Resistor	R0805	Chip resistor
R2	1	39k	1%	Resistor	R0805	Chip resistor
R4, R5, R22.A, R22.B, R22.C, R25.A, R25.B, R25.C, R32.A, R32.B, R35.A, R35.B	12	10	1%	Resistor	R1206	Chip resistor
R6, R9, R10, R16, R19.A, R19.B, R19.C, R20.A, R20.B, R20.C, R23.A, R23.B, R23.C, R26.A, R26.B, R26.C, R29.A, R29.B, R30.A, R30.B, R33.A, R33.B, R36.A, R36.B	24	10k	1%	Resistor	R0603	Chip resistor
R7	1	1k	1%	Resistor	R0603	Chip resistor
R8	1	510	1%	Resistor	R0603	Chip resistor
R11, R12, R13, R14	4	49.9	1%	Resistor	R0805	Chip resistor
R15	1	12.1k	1%	Resistor	R0603	Chip resistor
R17, R18	2	680	1%	Resistor	R0603	Chip resistor
R21.A, R21.B, R21.C, R24.A, R24.B, R24.C, R27.A, R27.B, R27.C, R28.A, R28.B, R28.C, R31.A, R31.B, R34.A, R34.B, R37.A, R37.B, R38.A, R38.B	20	10	1%	Resistor	R0603	Chip resistor
SA1	1			кнопка тактовая	B3U-3000P(M)-B	
U1	1			LD1117S33CTR	SOT-223	Линейный регулятор - [SOT-223]; Тип: LDO; Uвх: 4.75...15 В; Uвых: 3.235...3.365 В; Регул.: Fx; Iвхх: 800 mA; Iпотр: 5 mA
U2, U8.A, U8.B, U8.C, U11.A, U11.B	6			ADum1401BRW	RW-16	3I/O Data Digital Isolator
U3, U9.A, U9.B, U9.C, U12.A, U12.B	6			SN65HVD1785Dx	SOIC127P600X175-8N	x Fault-Protected RS-485 Transceivers With Extended Common-Mode Range
U4	1			STM32F407VET6TR	STM-LQFP100_N	ARM Cortex-M4 32-bit MCU+FPU, 512 KB Flash, 192 KB Internal RAM, 82 I/Os, 100-Pin LQFP, -40 to 85 degC, Tape and Reel
U5	1			LAN8720AI	QFN-24 4x4mm	Ethernet PHY controller (-40°C to 85°C)
U6	1			HR911105A	HR911105A	HR911105A Ethernet connector
U7.A, U7.B, U7.C, U10.A, U10.B	5			MAX232IDR	SOIC127P780X200-16M	Dual EIA-232 Drivers/Receivers
UV1	1			F2405S-1WR2 (mornsun)	SIP-7_AM2D-XXXXSH30/40Z	1W isolated DC-DC
UV2, UV3, UV4	3			P6CUI-050505ZLF	SIP-7 DualPeak	1W 1kV isolated dual separate output DC-DC
VD1	1			BAV70	SOT-23	High-speed double diode
VD2	1			TLV431x	SOT-23	Low-Voltage Adjustable Precision Shunt Regulator
VD3, VD4, VD5.A, VD5.B, VD5.C, VD6.A, VD6.B, VD6.C, VD7.A, VD7.B, VD8.A, VD8.B	12			SM6T15CA	SMB (DO-214AA)	Supressor
VT1	1			MJD340	DPAK228P972X240-3N	NPN SILICON POWER TRANSISTOR
VT2.A, VT2.B, VT2.C, VT3.A, VT3.B, VT3.C, VT4.A, VT4.B, VT5.A, VT5.B	10			NTR4101P	SOT-23	Trench Power MOSFET -20 V, Single P-Channel, SOT-23
X1, X4.A, X4.B	3			Weidmuller_1069710000	SHL-SMT_5_00GR_04	PCB plug-in connector, right, male header
X2	1			PLS-6x1	PINHEAD 6x1 2.54_H	PLS PINHEAD 6x1, 2.54
X3.A, X3.B, X3.C	3			Weidmuller_1069770000	SHL-SMT_5_00GL_04	PCB plug-in connector, left, male header