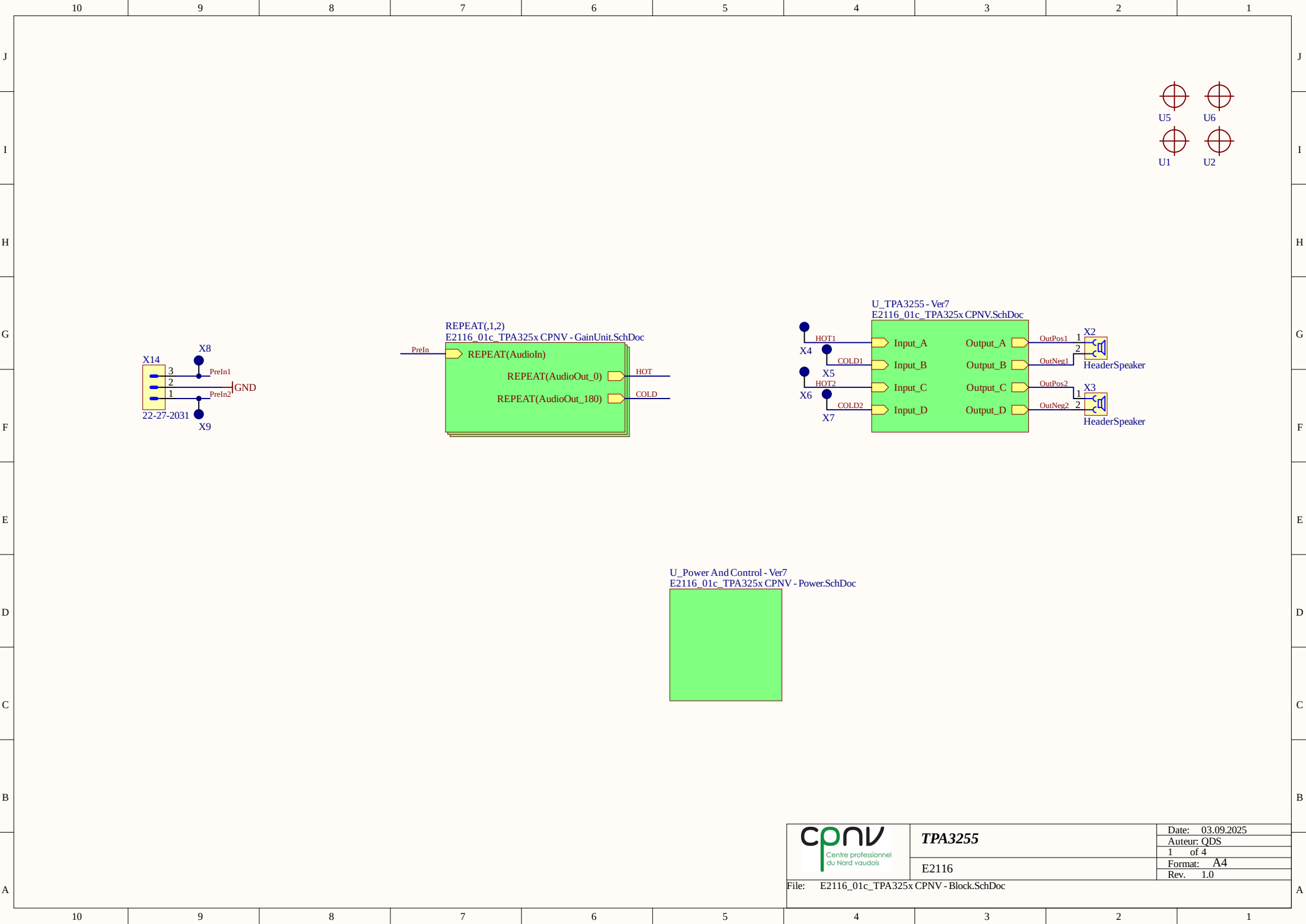
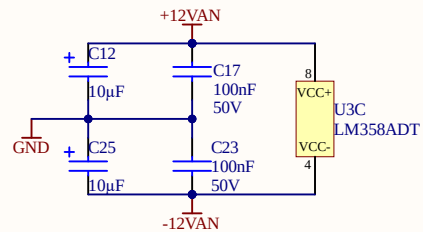
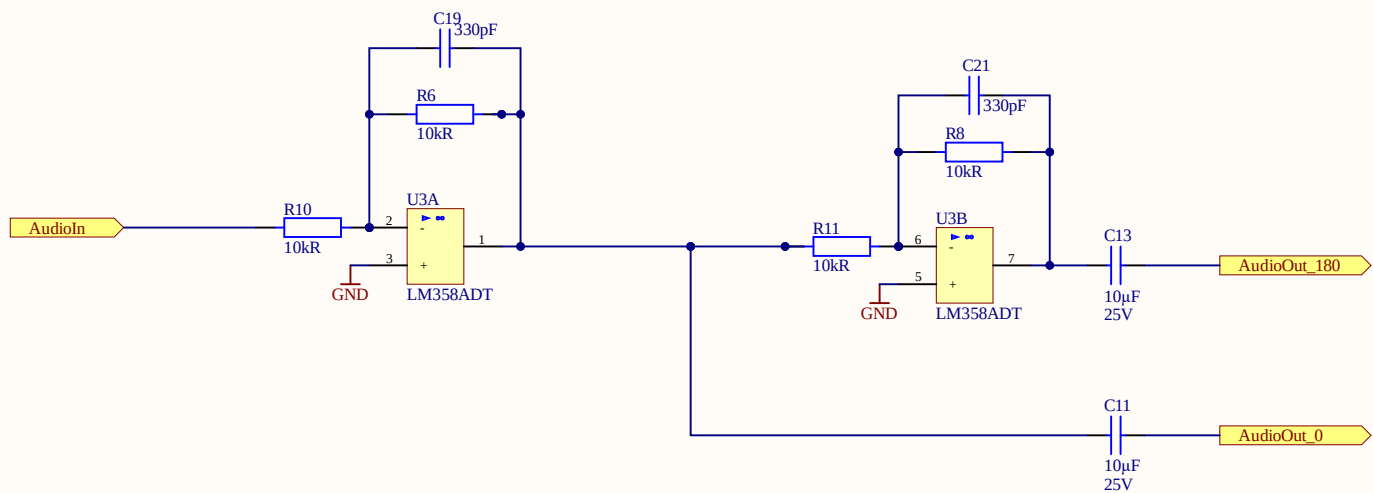
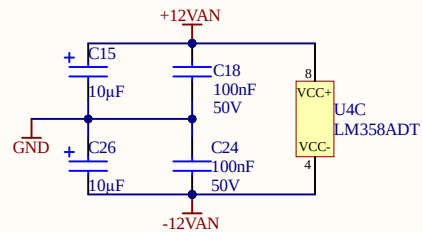
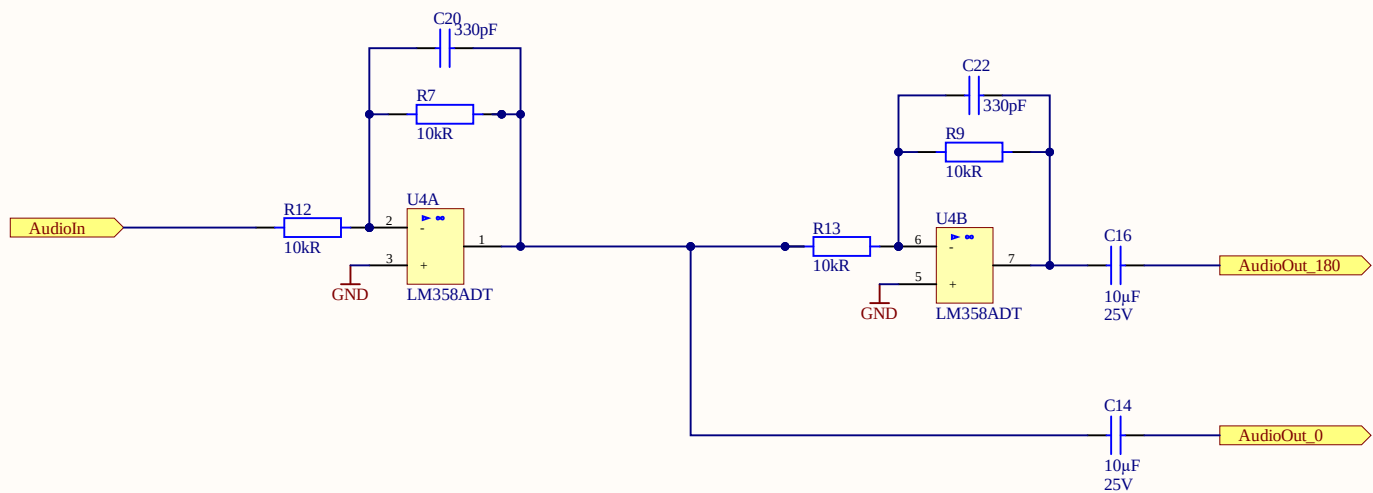
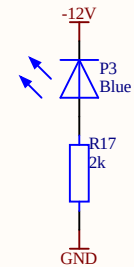
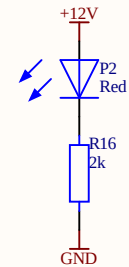
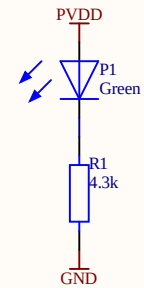
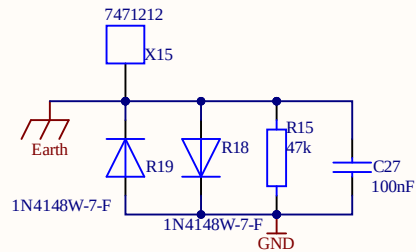
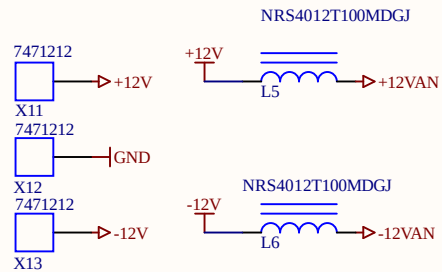
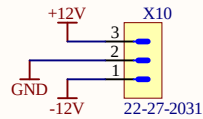
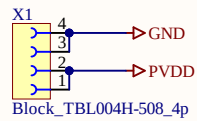
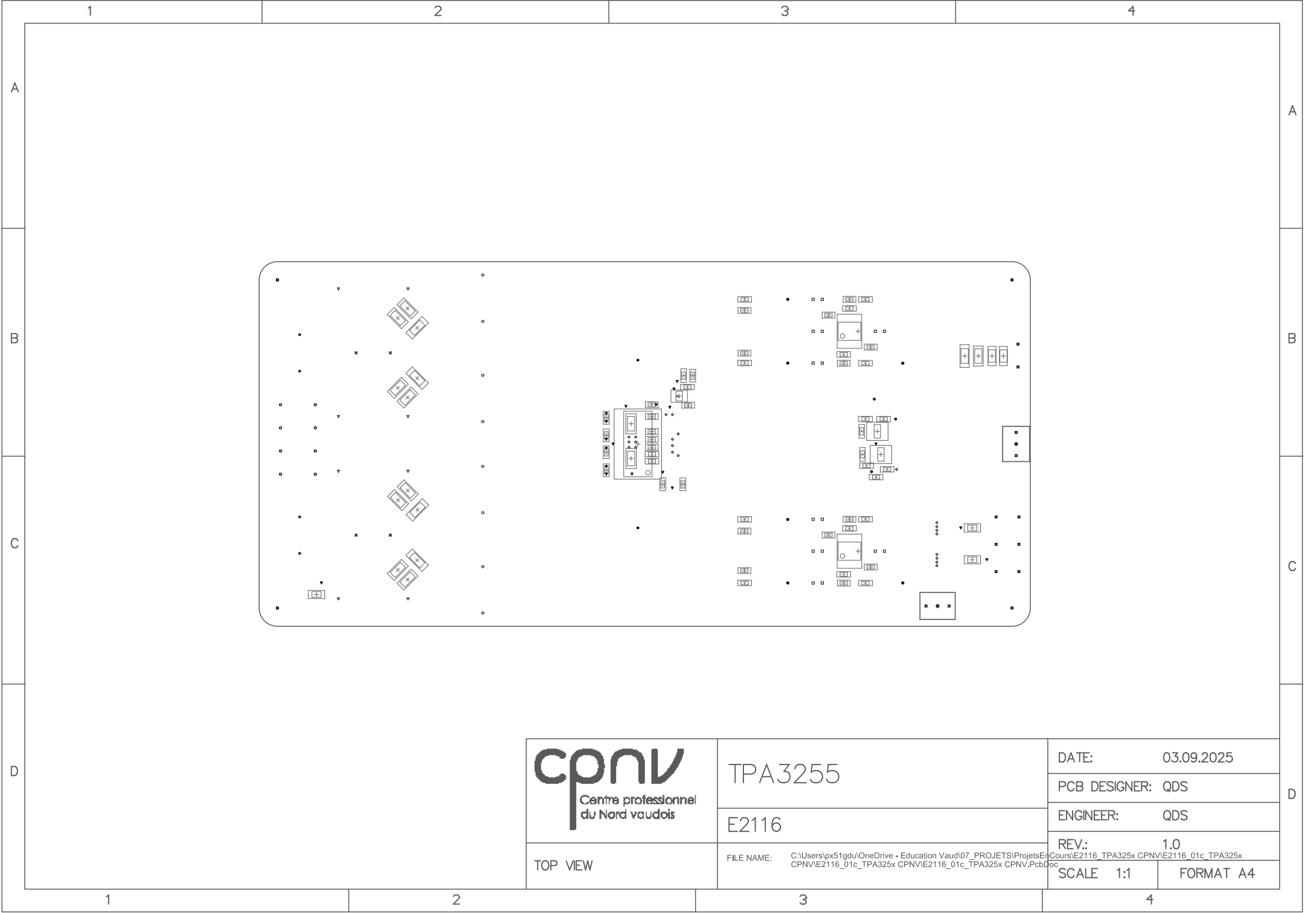


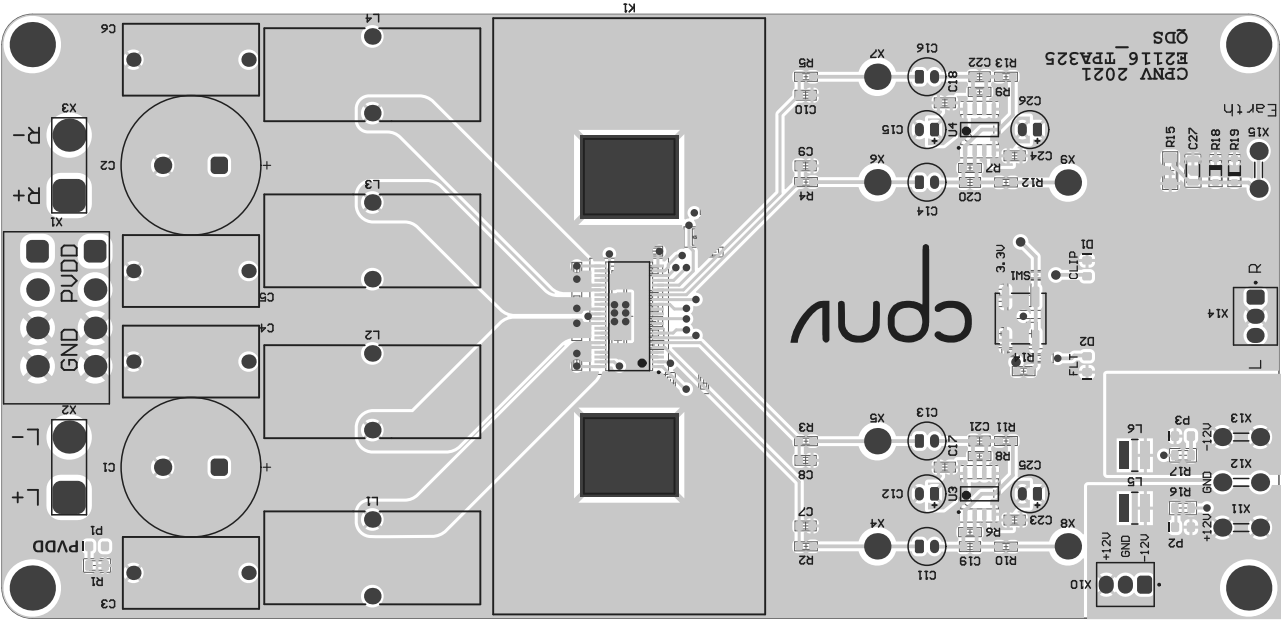














Centre professionnel
du Nord vaudois

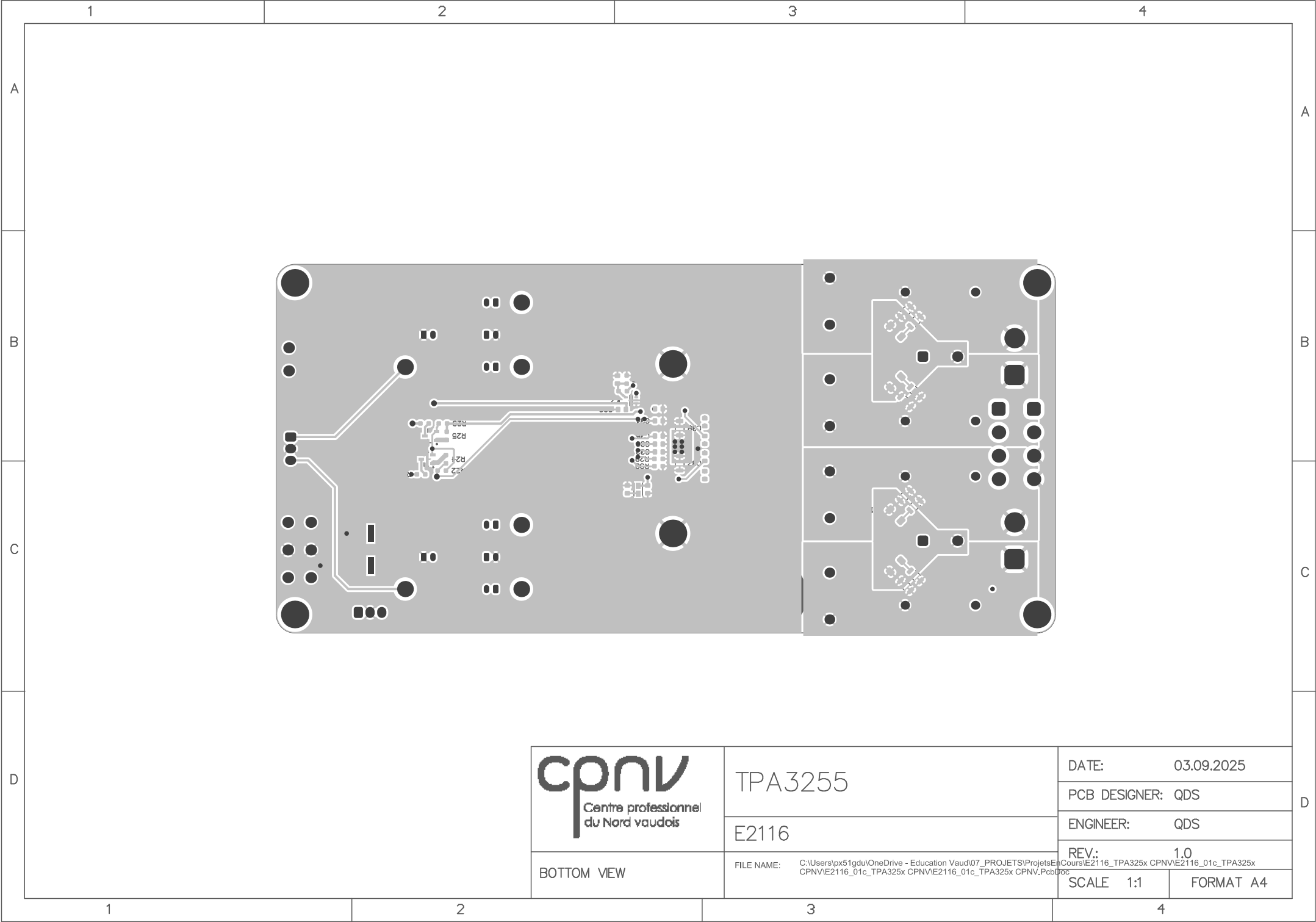
TOP VIEW

TPA3255

E2116

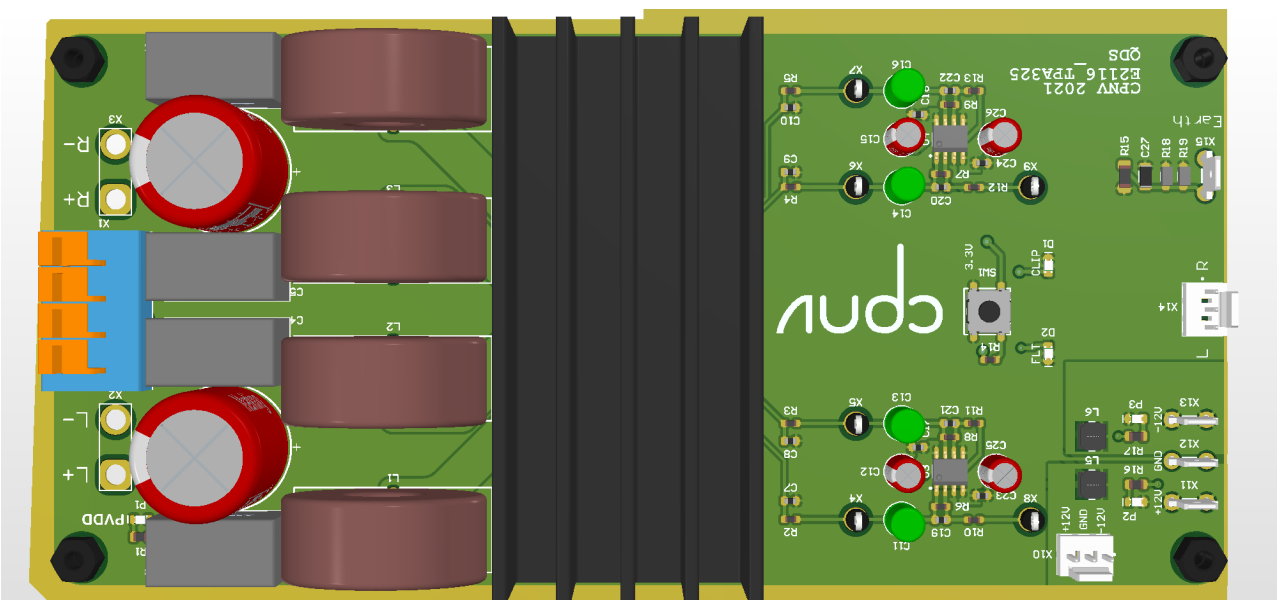
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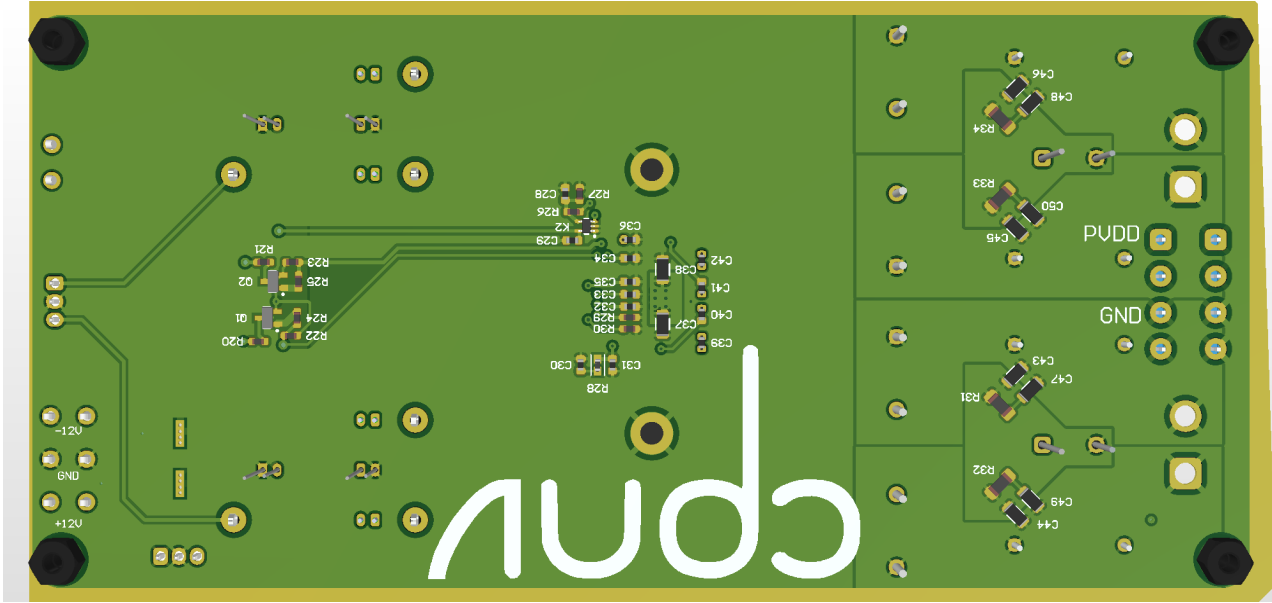
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BOTTOM VIEW







Bill of Materials

Source Data From:

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Project:

E2116_01c_TPA325x CPNV.PrjPcb

Variant:

None

Creation Date: 03.09.2025 14:50
Print Date: 03-Sep-25 2:50:30 PM

Designator	Name	Description	Footprint	Fournisseur	Supplier Part Number 1	Qty	Supplier	Price Tot
	PCB					1		0.00
C1, C2	860020781027	WCAP-ATG5 Aluminum Electrolytic Capacitor, Radial, THT, D18 x H31.5mm, 1500µF, 63V	WCAP-ATG5_D18H31.5	Mouser	710-860020781027	2	3.94	7.88
C3, C4, C5, C6	PHE426HB7100JR06	Film Capacitor, Polypropylene, 250V, 5% +Tol, 5% -Tol, -200ppm/Cel TC, 1µF, Through Hole Mount, 7137	F426	Mouser	80-PHE426HB7100JR06	4	1.93	7.72
C7, C8, C9, C10	C0603_100P	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, NP0, 100pF, 50V	WCAP-CSGP_0603_H=0.8mm_Wave	Mouser	710-885012006057	4	0.03	0.12
C11, C13, C14, C16	CBIPOL_10u25V	Cap Alum 10UF 20% 25V Radial	CBIPOL_UES_l2d5x11	Mouser	555-RBD-25V100KE3#N	4	0.26	1.05
C12, C15, C25, C26	CPOL_10u63V_WCAP-ATG5	WURTH ELEKTRONIK 860020772010 Electrolytic Capacitor, 10 F, 63 V, WCAP-ATG5 Series, 20%, Radial Leaded, 5 mm	CPOL_WCAP-ATG5_l2d5x11	Mouser	710-860020772010	4	0.12	0.49
C17, C18, C23, C24, C28, C30, C31, C36	C0603_100N	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 100nF, 50V	WCAP-CSGP_0603_H=0.8mm_Wave	Mouser	710-885012206095	8	0.03	0.23
C19, C20, C21, C22	C0603_330P	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 330pF, 50V	WCAP-CSGP_0603_H=0.8mm_Wave	Mouser	710-885012206080	4	0.04	0.15
C27	C1206_100N	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 1206, X7R, 100nF, 50V	WCAP-CSGP_1206_H=0.8mm_Wave	Mouser	710-885012208087	1	0.23	0.23
C29	C0603_10N	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 10nF, 50V	WCAP-CSGP_0603_H=0.8mm_Wave	Mouser	710-885012206089	1	0.10	0.10
C32, C33, C34	C0603_1U	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 1µF, 25V	WCAP-CSGP_0603_H=0.8mm_Wave	Mouser	710-885012206076	3	0.11	0.34
C35	C0603_47N	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 47nF, 50V	WCAP-CSGP_0603_H=0.8mm_Wave	Mouser	710-885012206093	1	0.10	0.10
C37, C38	C1206_1U	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 1206, X7R, 1µF, 50V	WCAP-CSGP_1206_H=0.8mm_Wave	Mouser	710-885012208093	2	0.22	0.43
C39, C40, C41, C42	C0603_33N	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 33nF, 50V	WCAP-CSGP_0603_H=0.8mm_Wave	Mouser	710-885012206092	4	0.04	0.15
C43, C44, C45, C46	C1206_1N	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 1206, NP0, 1nF, 50V	WCAP-CSGP_1206_H=0.8mm_Wave	Mouser	710-885012008049	4	0.22	0.86
C47, C48, C49, C50	C1206_330N	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 1206, X7R, 330nF, 50V	WCAP-CSGP_1206_H=1.25mm_Wave	Mouser	710-885012208090	4	0.23	0.90
D1	150080YS75000	WL-SMCW Mono-color Chip LED Waterclear, size 0805, Yellow, 2V, 140°	WL-SMCW_0805_15008	Mouser	710-150080YS75000	1	0.18	0.18

Designator	Name	Description	Footprint	Fournisseur	Supplier Part Number 1	Qty	Supplier	Price Tot
D2, P2	150080RS75000	WL-SMCW Mono-color Chip LED Waterclear, size 0805, Red, 2V, 140°	WL-SMCW_0805_150080xx75000	Mouser	710-150080RS75000	2	0.18	0.36
K1	TPA3255DDVR	Audio Amplifier, 315W, 4 Channel(s), 1Func, PDSO44	TSPOP64P810X120-44M	LCSC	C468240	1	0.50	0.50
K2	TPS3802K33DCKR	Power Supply Support Circuit, Fixed, 1Channel, +2.93V, CMOS, PDSO5	DCK0005A_N	LCSC	C2149505	1	0.14	0.14
L1, L2, L3, L4	MA5172-AE	General Purpose Inductor, 10uH, 10%, 1Element, Powdered Iron-Core	MA517	Mouser	994-MA5172-AE	4	7.76	31.04
L5, L6	NRS4012T100MDGJ	General Purpose Inductor, 10uH, 20%, 1Element, SMD, 1616	FP-NR4012-MFG	Mouser	963-NRS4012T100MDGJ	2	0.18	0.36
P1	150080GS75000	WL-SMCW Mono-color Chip LED Waterclear, size 0805, Green, 3.2V, 140°	WL-SMCW_0805_150080xx75000	Mouser	710-150080GS75000	1	0.18	0.18
P3	150080BS75000	WL-SMCW Mono-color Chip LED Waterclear, size 0805, Blue, 3.2V, 140°	WL-SMCW_0805_150080xx75000	Mouser	710-150080BS75000	1	0.15	0.15
Q1, Q2	BSS84-7-F	Small Signal Field-Effect Transistor, 0.18A I(D), 50V, 1Element, P-Channel, Silicon, Metal-oxide Semiconductor FET	SOT90P240X115-3M	Mouser	621-BSS84-F	2	0.13	0.26
R1	R0805_4K3	Fixed Resistor, Metal Glaze/thick Film, 0.25W, 4.3kohm, 50V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0805	RES0805	Mouser	660-RK73H2ATTD4301F	1	0.09	0.09
R2, R3, R4, R5, R24, R25	R0603_100R	RES SMD 100 OHM 1% 1/10W 0603, Fixed Resistor, Metal Glaze/thick Film, 0.1W, 100ohm, 75V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0603	RES0603	Mouser	C193336, 708-RMCF0603F	6		0.00
R6, R7, R8, R9, R10, R11, R12, R13, R26, R29	R0603_10K	PANASONIC - ERJ-3EKF1002V - THICK FILM CHIP RES, 0603, 1% PRECISION, Fixed Resistor, Metal Glaze/thick Film, 0.1W, 10000ohm, 75V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0603	RES0603	Mouser	667-ERJ-3EKF1002V, 708-RMCF0603FT10K0	10		0.00
R14	R0603_10R	Fixed Resistor, Metal Glaze/thick Film, 0.1W, 10ohm, 75V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0603	RES0603	Mouser	708-RMCF0603FT10R0	1	0.09	0.09
R15	R1206_47K	Fixed Resistor, Metal Glaze/thick Film, 0.5W, 47000ohm, 200V, 1% +/- Tol, 200ppm/Cel, Surface Mount, 1206	RES1206			1		0.00
R16, R17	R0805_2K0	Fixed Resistor, Metal Glaze/thick Film, 0.25W, 2kohm, 50V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0805	RES0805	Mouser	660-RK73H2ATTD2001F	2	0.09	0.19
R18, R19	1N4148W-7-F	Rectifier Diode, 1Phase, 1Element, 0.5A, 100V V(RRM), Silicon	DIOD-SOD123-2_V	Mouser	621-1N4148W-F	2	0.09	0.18
R20, R21	R0603_1K	Res Thick Film 0603 1K Ohm 1% 1/10W ±100ppm/°C Molded SMD Punched Carrier T/R	RES0603	Mouser	667-ERJ-3EKF1001V	2	0.08	0.16
R22, R23	R0603_47K	Res Thick Film 0603 47K Ohm 1% 1/10W ±100ppm/°C Molded SMD Punched Carrier T/R	RES0603	Mouser	667-ERJ-3EKF4702V	2	0.10	0.21
R27	R0603_4K7	Fixed Resistor, Metal Glaze/thick Film, 0.1W, 4700ohm, 75V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0603	RES0603	Mouser	708-RMCF0603FT4K70	1	0.09	0.09
R28	MLZ1608N100LT000	General Purpose Inductor, 10uH, 20%, 1Element, Ferrite-Core, SMD, 0603	Inducteur0603	Mouser	810-MLZ1608N100LT000	1	0.09	0.09
R30	R0603_22K	Fixed Resistor, Metal Glaze/thick Film, 0.1W, 22000ohm, 75V, 1% +/- Tol, 100ppm/Cel, Surface Mount, 0603	RES0603	Mouser	708-RMCF0603FT22K0	1	0.09	0.09
R31, R32, R33, R34	R1206_1R	Res Thick Film 1206 1Ohm 1% 1/4W 100ppm/°C Molded SMD Paper T/R	RES1206	Mouser	71-CRCW1206-1-E3	4	0.09	0.36
SW1	430773034825	WS-TASV J-Hook SMT Hermetic Tact Switch, SPST-NO, 12VDC, 50mA, 250g	WS-TASV_L6W6H3.4_43	Mouser	710-430773034825	1	0.99	0.99
U1, U2, U5, U6	M3 ENT-ENT	Trou de fixation M3 Entretien-entretien	M3 ENT ENT NC			4		0.00
U3, U4	LM358ADT	Operational Amplifier, 2 Func, 4000uV Offset-Max, BIPolar, PDSO8	SOIC8	Mouser	511-LM358ADT	2	0.27	0.54
X1	Block_TBL004H-508_4p	Fixed Terminal Blocks Terminal block, screwless, 5.08, Horizontal, 4 poles, Blue w Grey button	Block_TBL004H-508_4p	Mouser	490-TBL00450804BE2GY	1	1.28	1.28
X2, X3	HeaderSpeaker	Hole 2.5mm Lead 7mm	HeaderSpeaker			2		0.00
X4, X5, X6, X7, X8, X9	5006	Interconnection Device	TP_5006	LCSC	C2906764	6	0.05	0.27
X10, X14	22-27-2031	Board Connector, 3 Contact(s), 1Row(s), Male, Straight, 0.1 inch Pitch, Solder Terminal, Locking, White Insulator, Receptacle	MOLX-22-27-2031_V	Mouser	538-22-27-2031	2	0.25	0.51
X11, X12, X13, X15	7471212	WA-MTAB Mounting Tab, THT, Vertical, Male, Blade 4.8mm	7471212	Mouser	710-7471212	4	0.17	0.68
						122		59.77