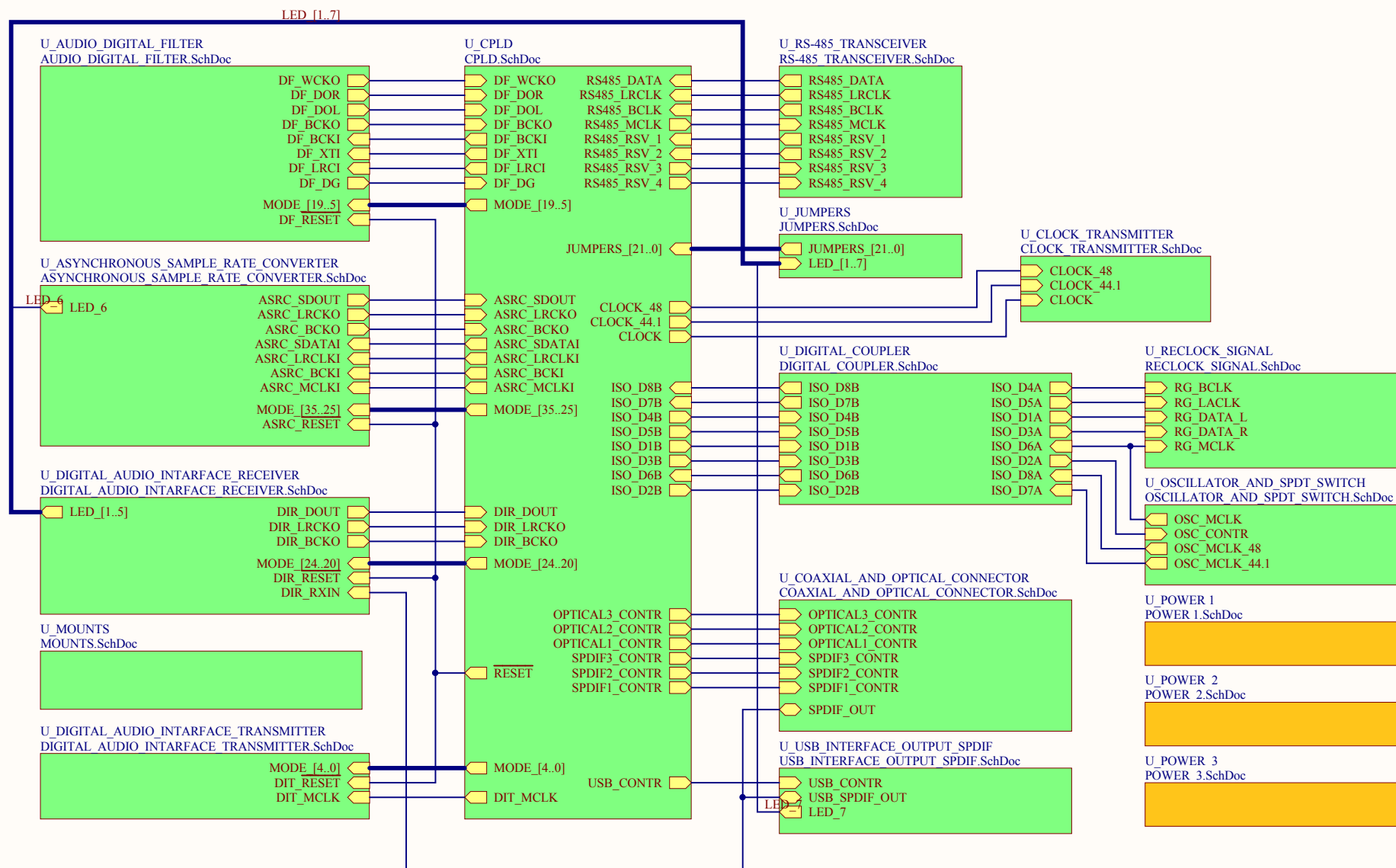


Title **DIGITAL BOARD**

Size: A4

Number: 1.

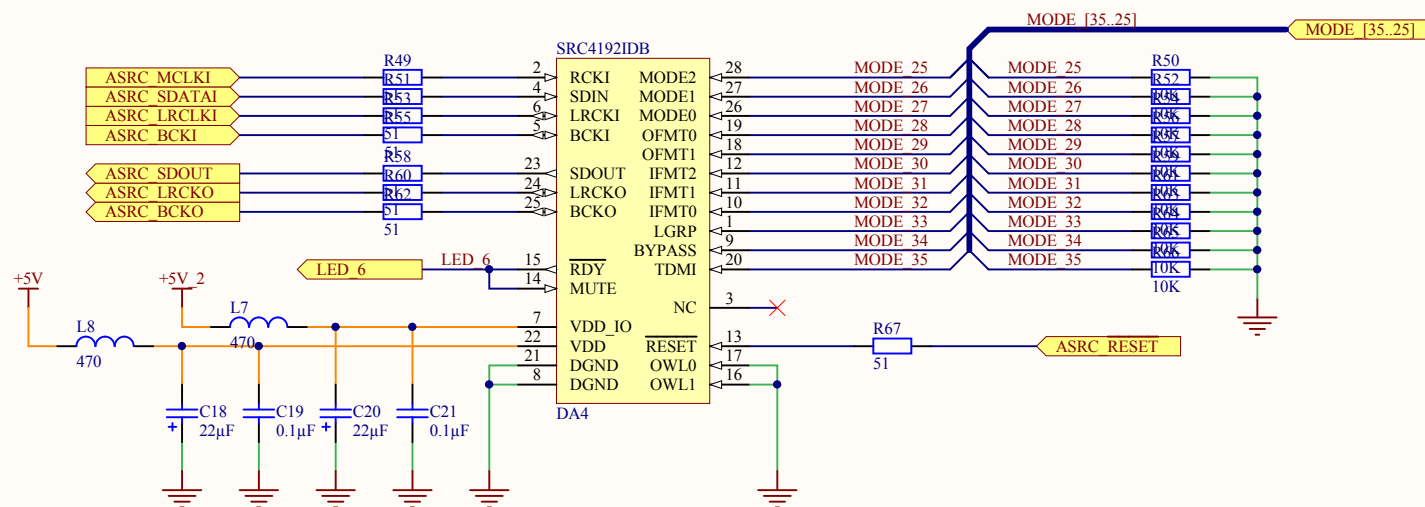
Revision: 1.2.3

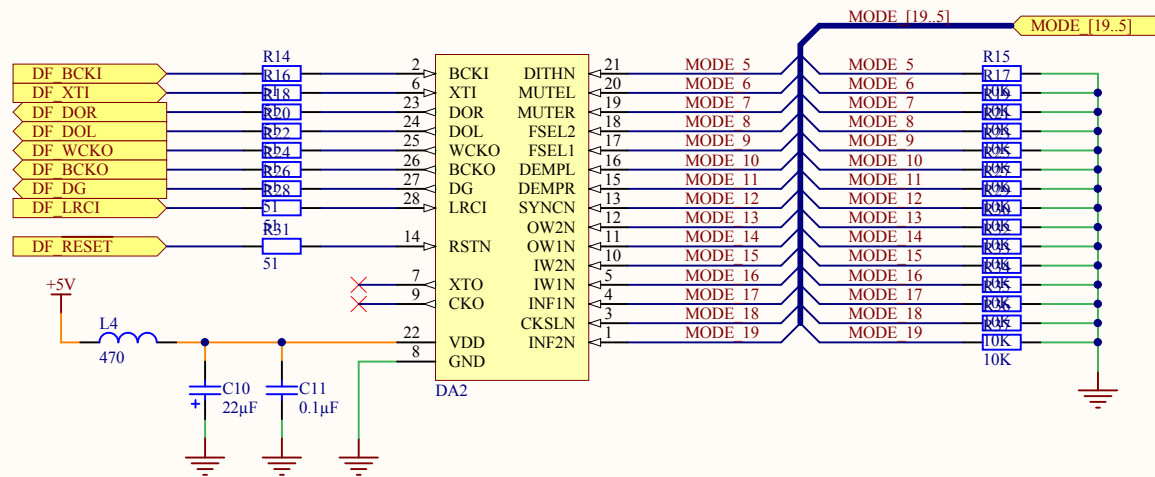
Date: 26.11.2009

Time: 19:13:07

Sheet 1 of 18

Z Labs



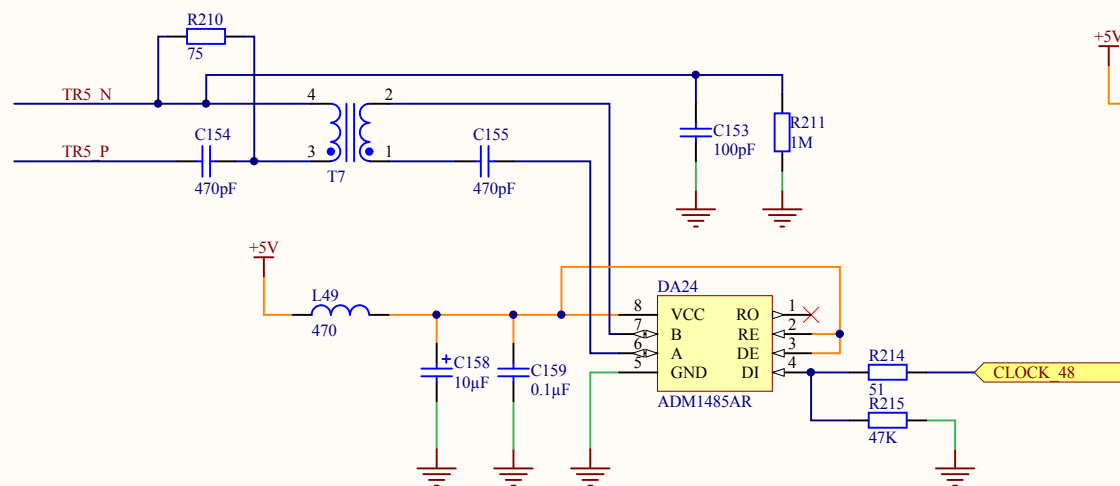
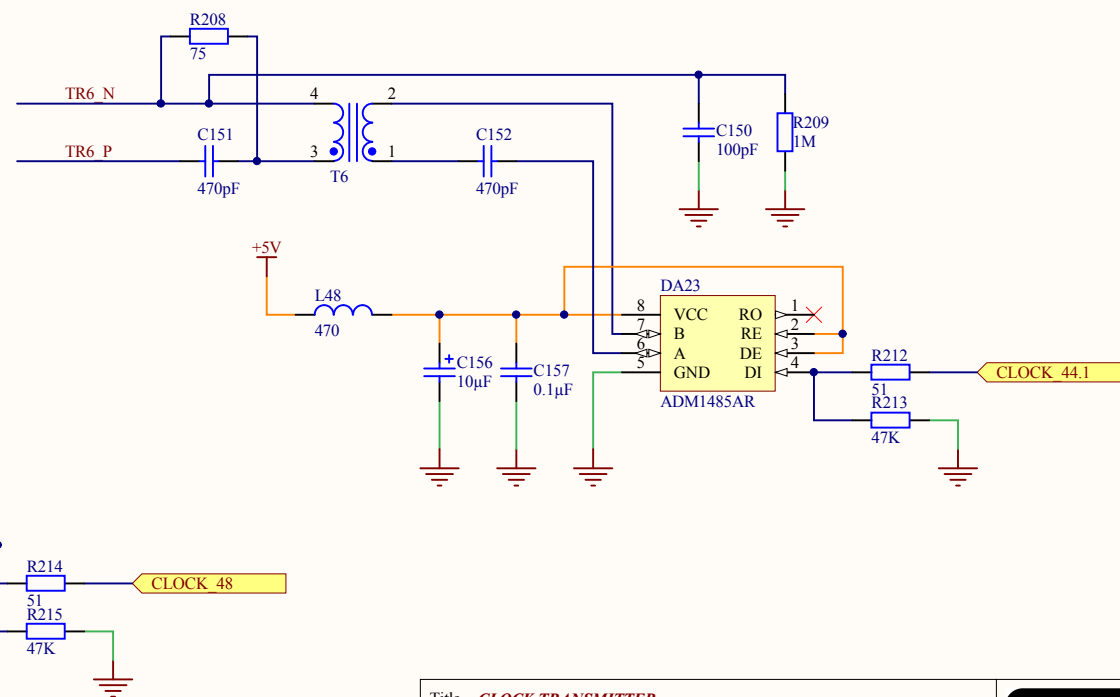
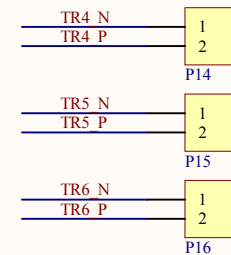
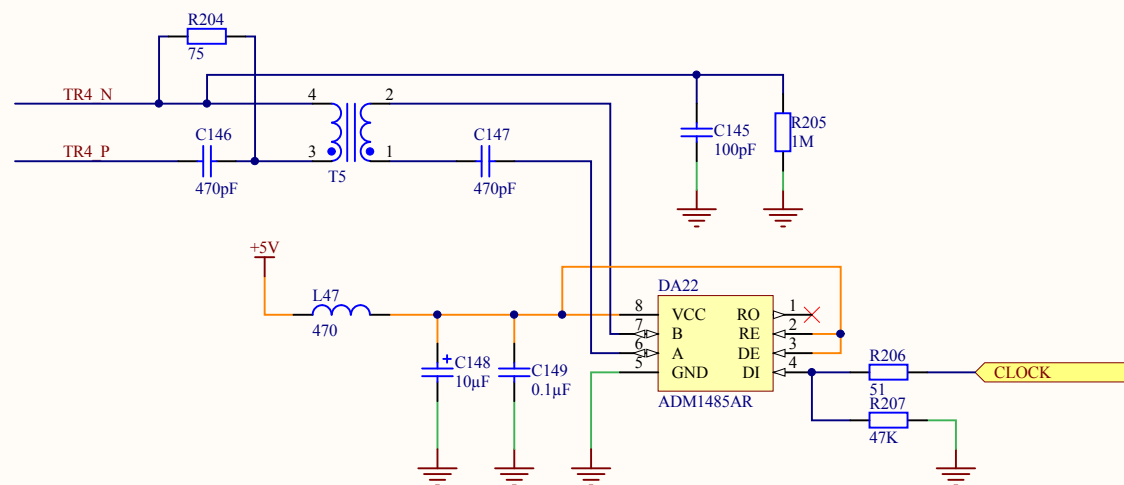


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Title CLOCK TRANSMITTER		
Size: A4	Number: 6.	Revision: 1.2.3
Date: 26.11.2009	Time: 19:13:07	Sheet 6 of 18

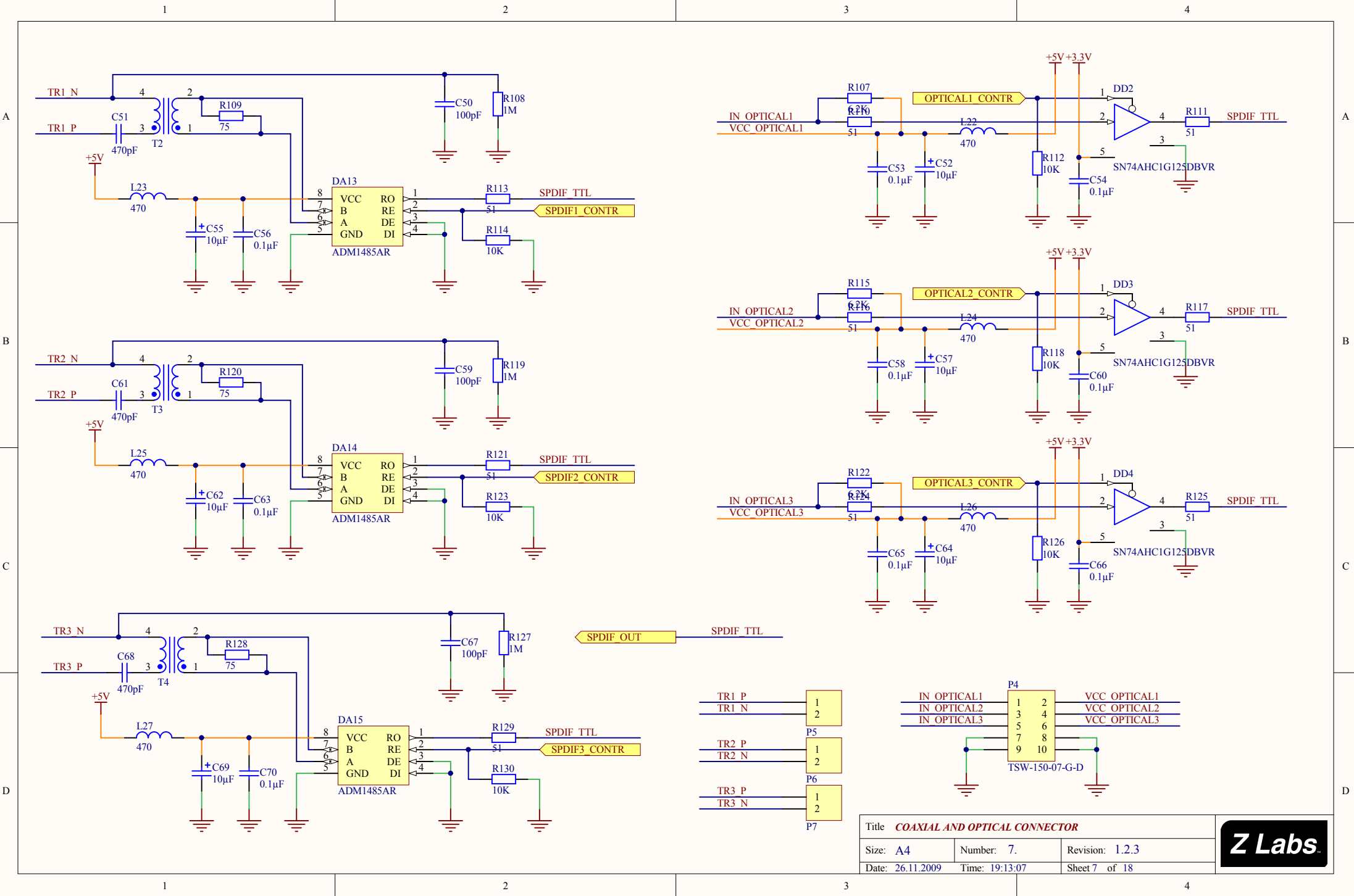
Z Labs

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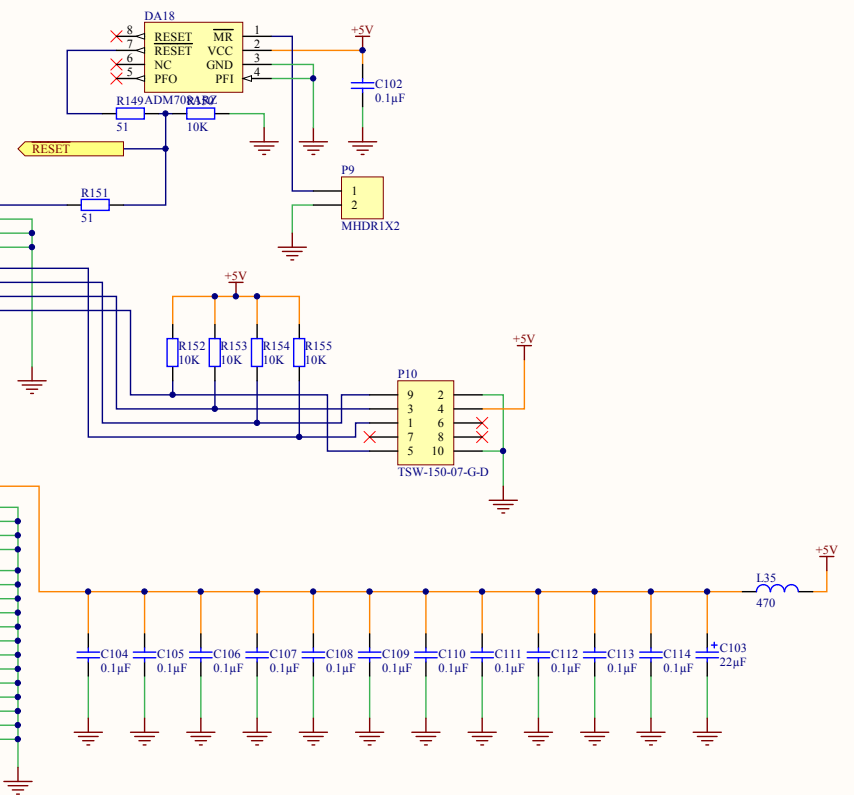
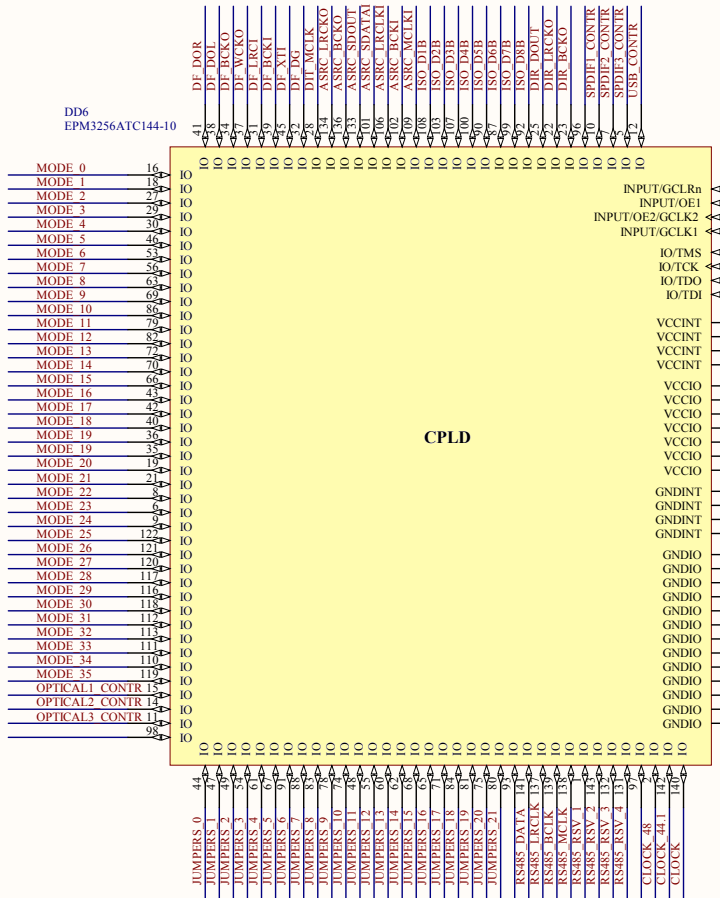
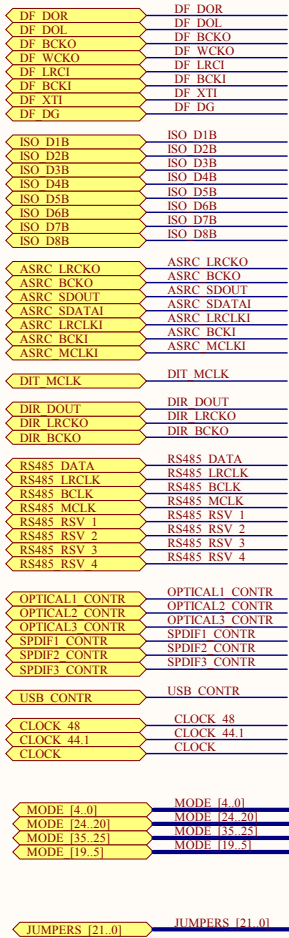
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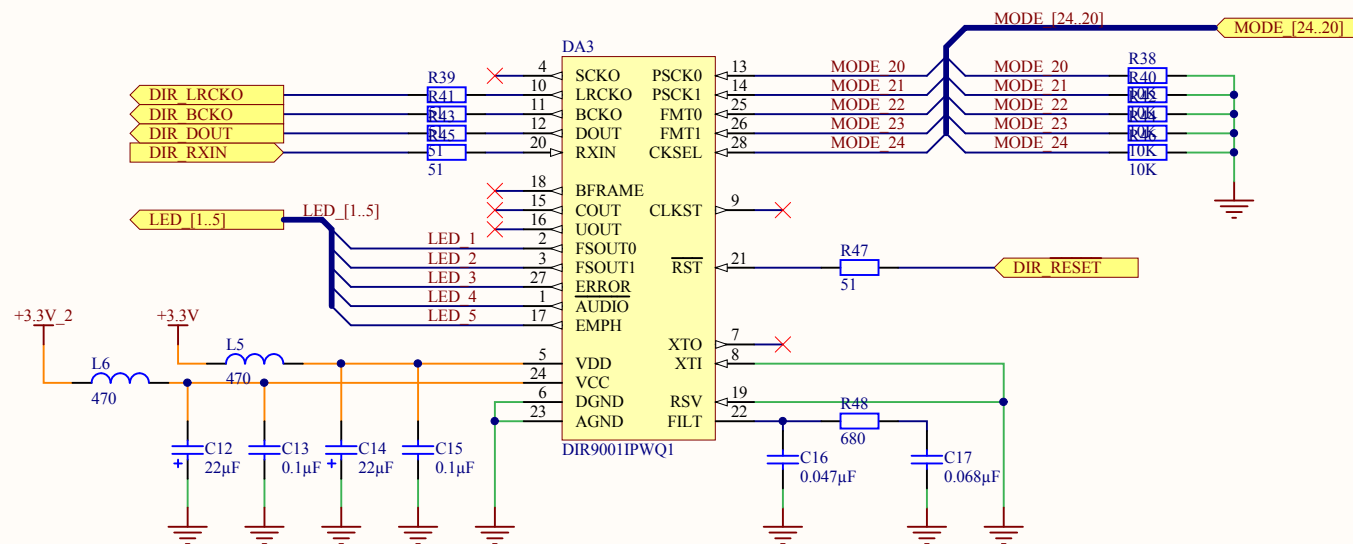
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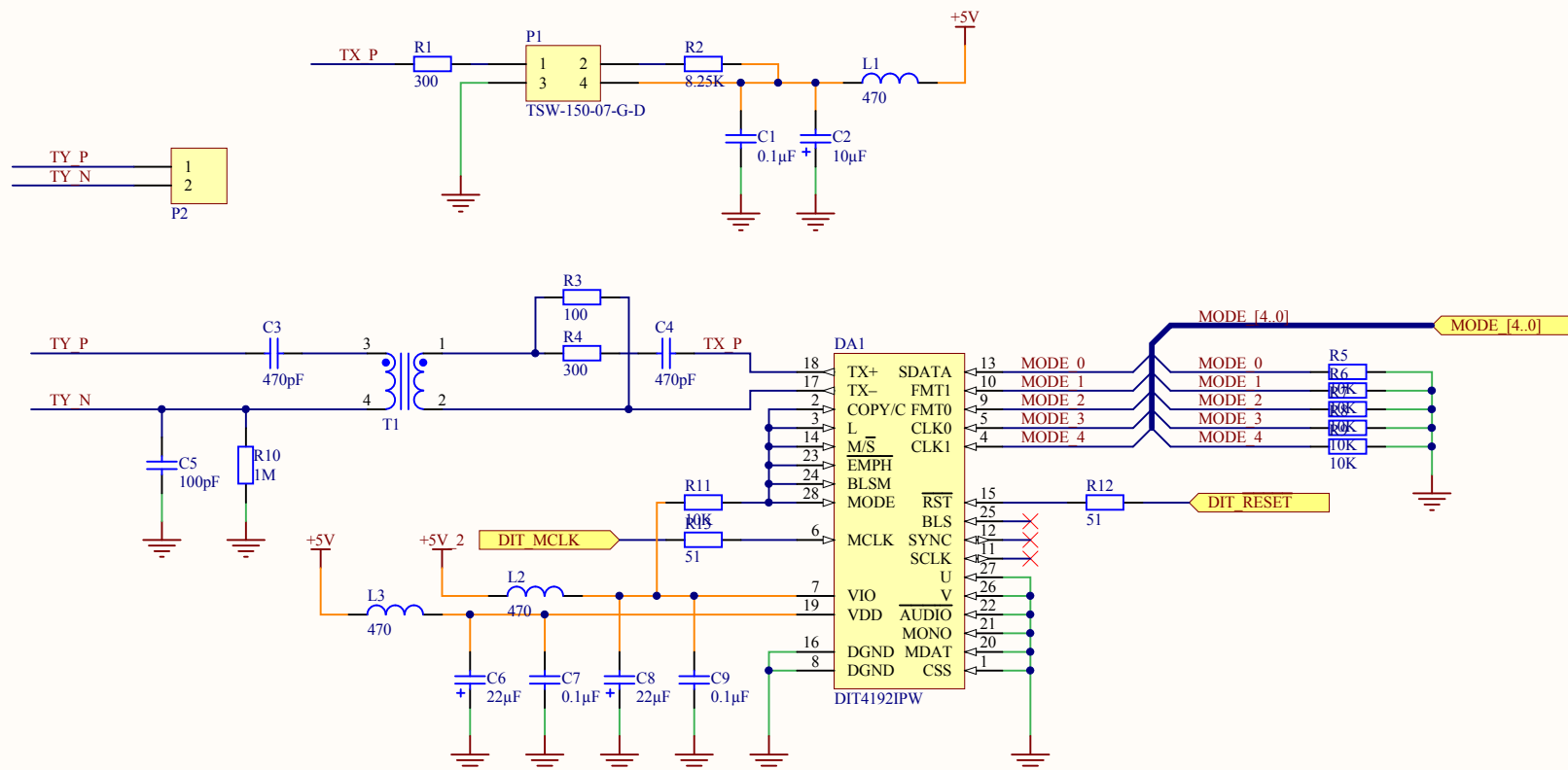
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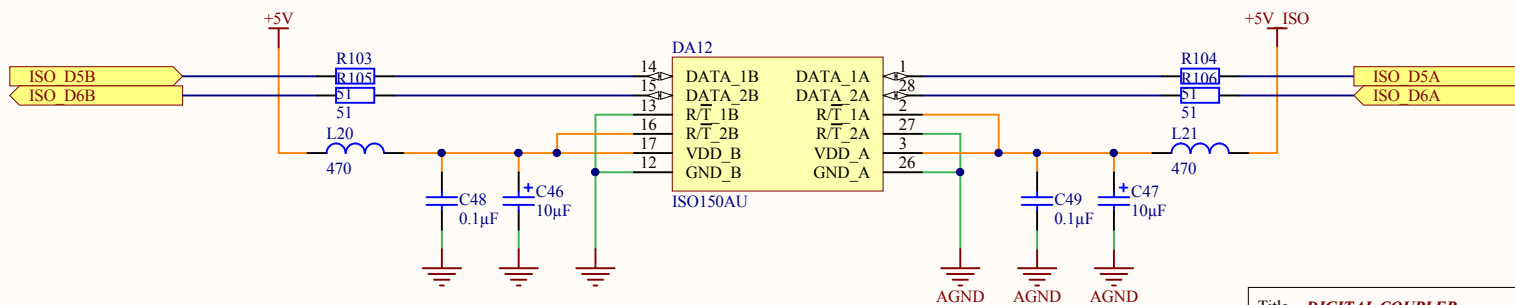
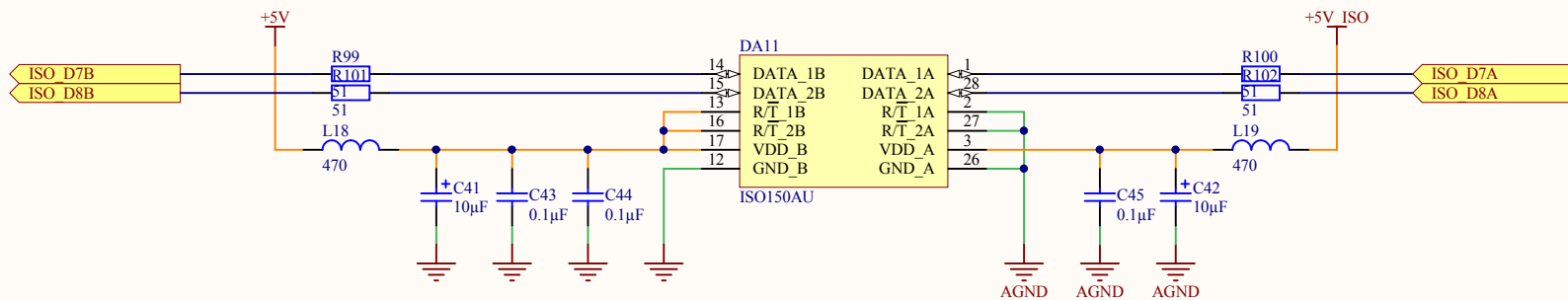
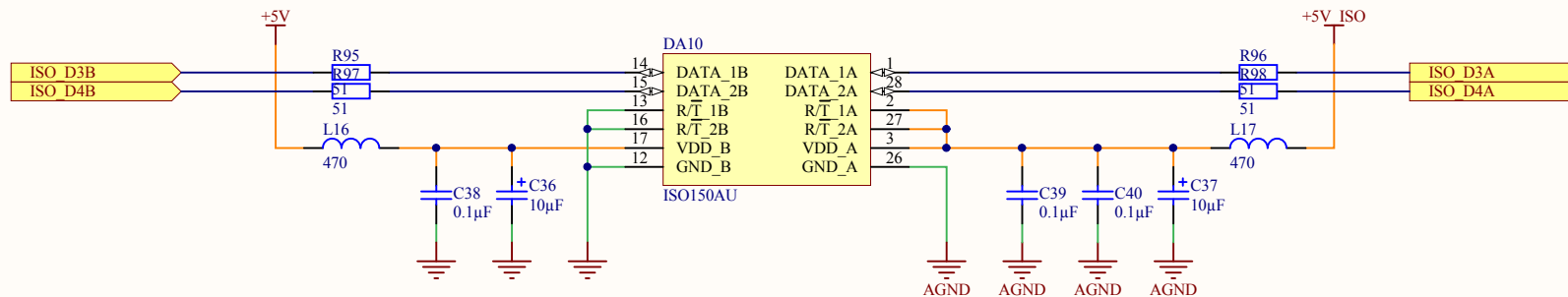
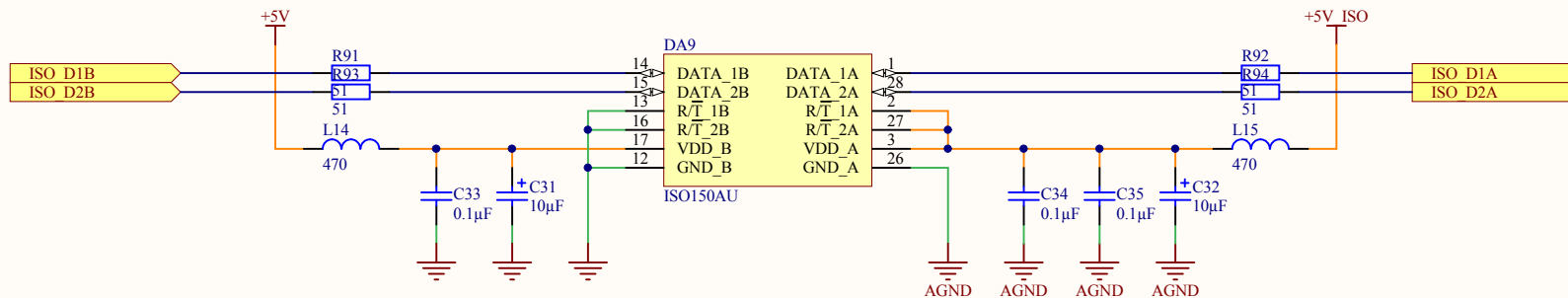




Title DIGITAL AUDIO INTERFACE RECEIVER		
Size: A4	Number: 9.	Revision: 1.2.3
Date: 26.11.2009	Time: 19:13:07	Sheet 9 of 18

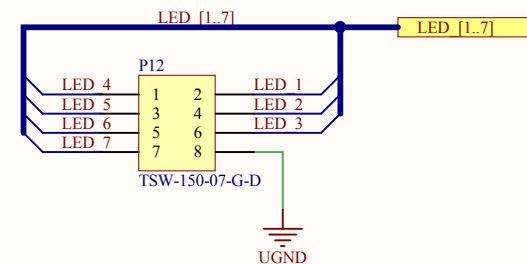
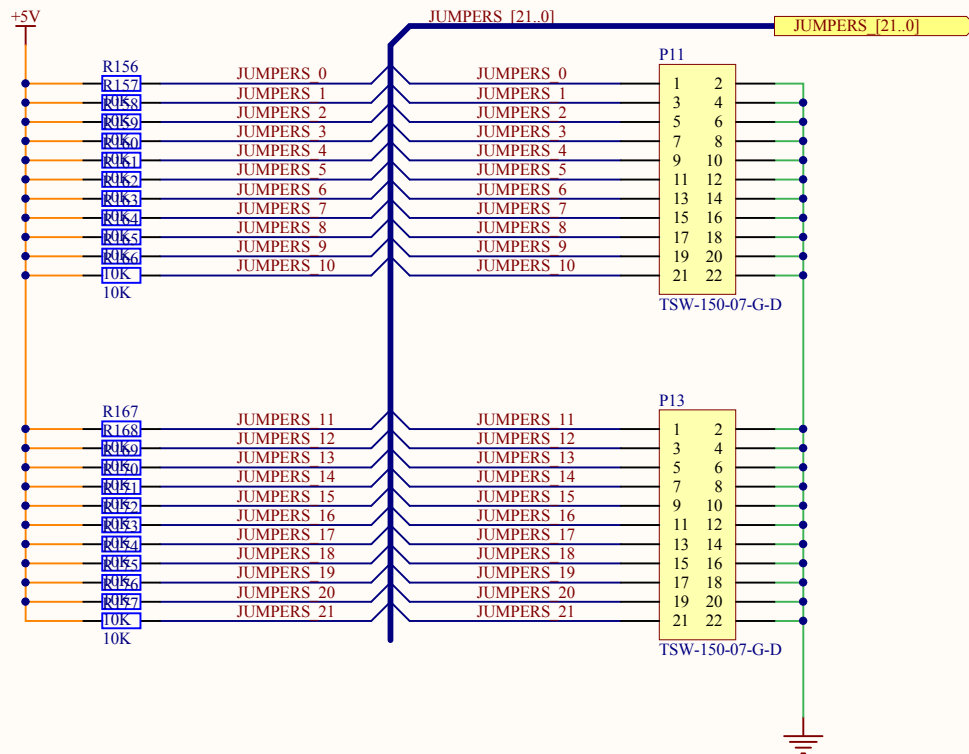


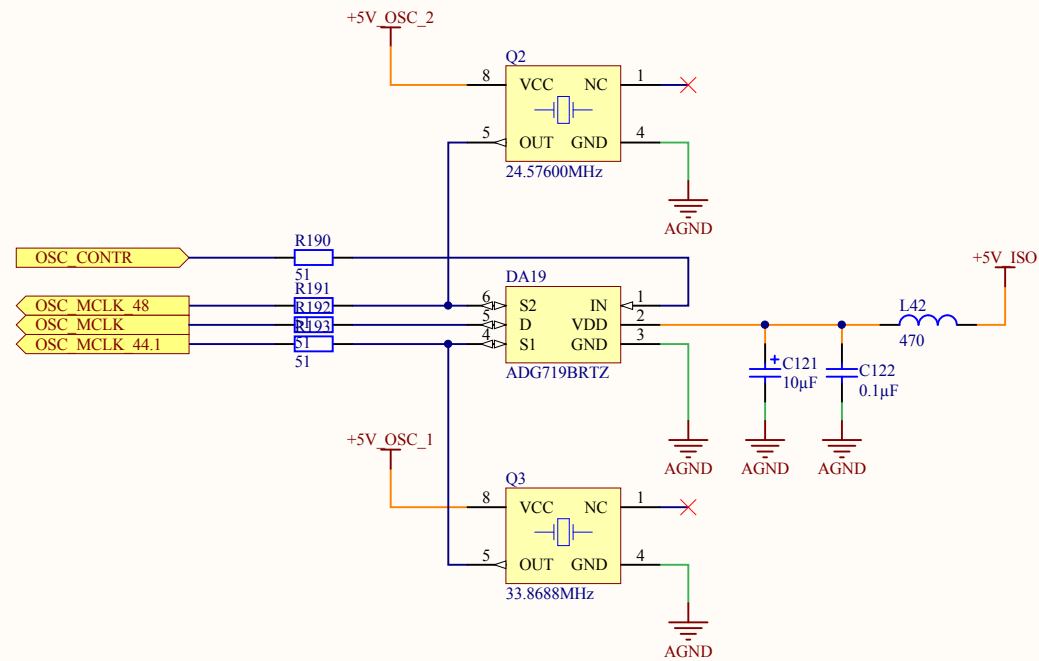




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Size: A4	Number: 11.	Revision: 1.2.3
Date: 26.11.2009	Time: 19:13:08	Sheet 11 of 18

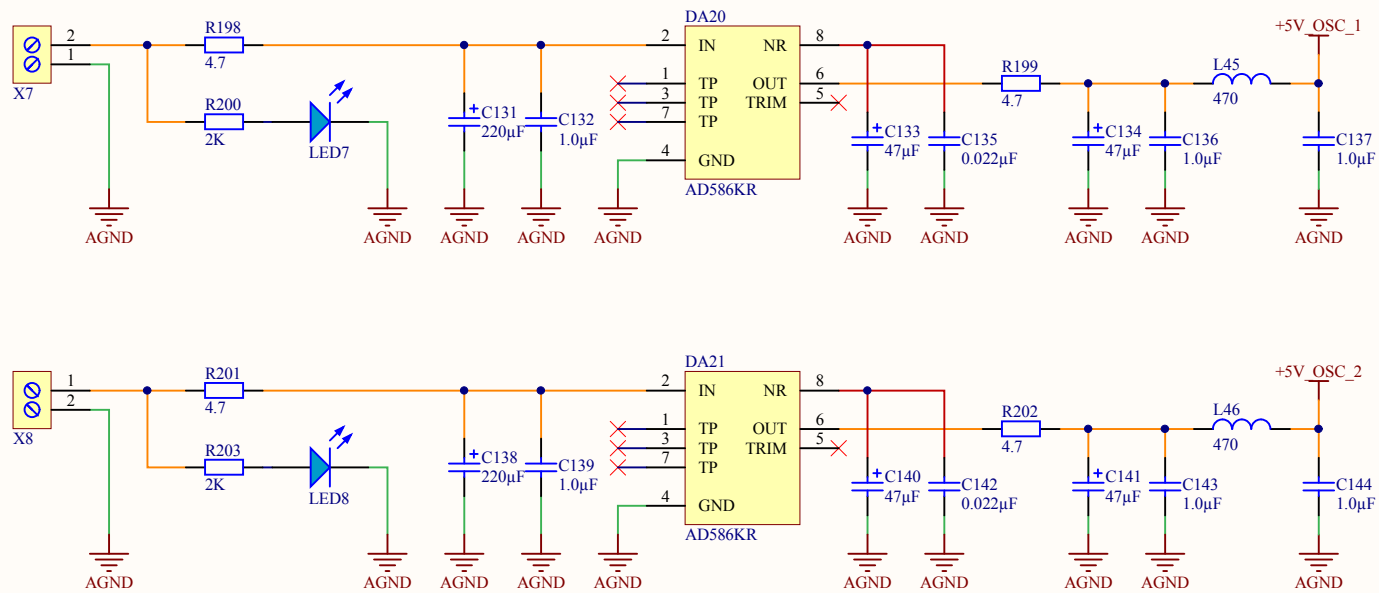


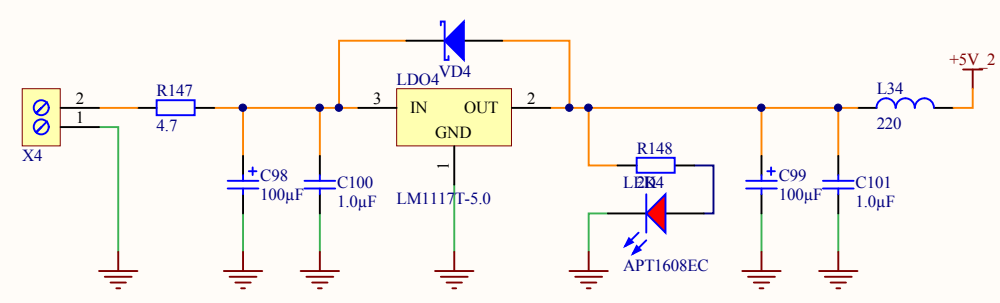
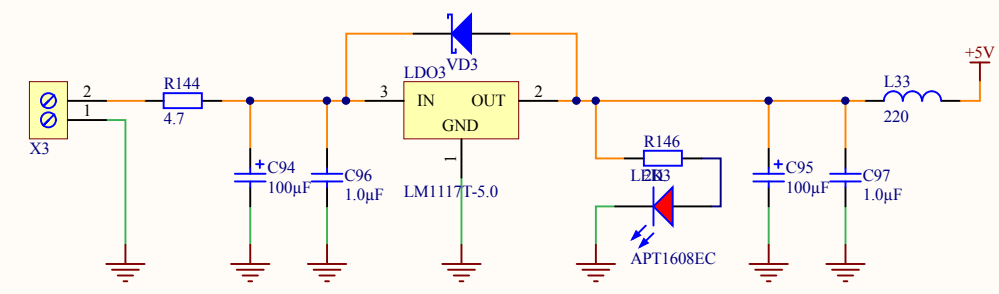
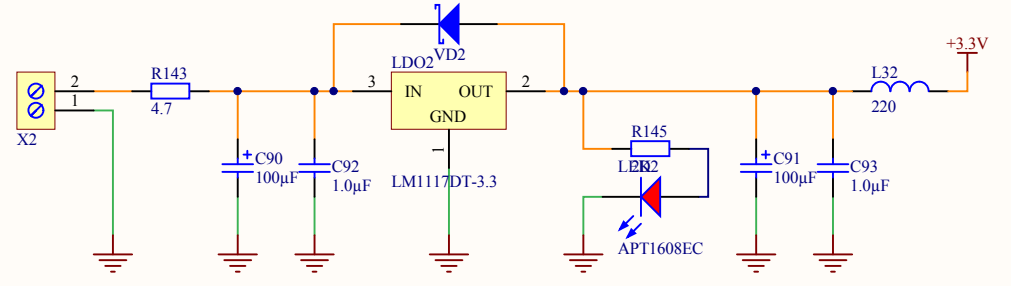
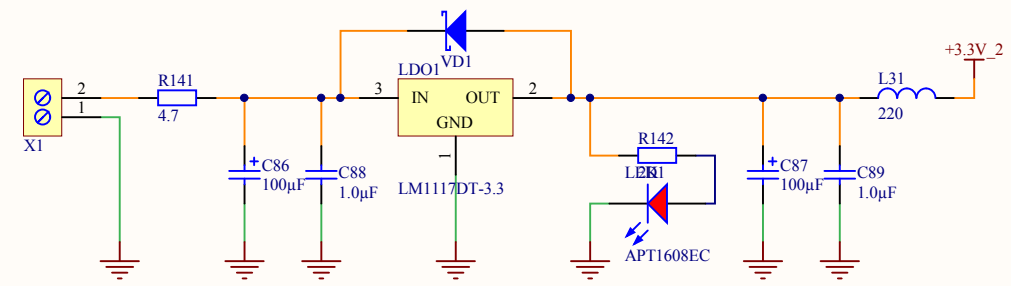


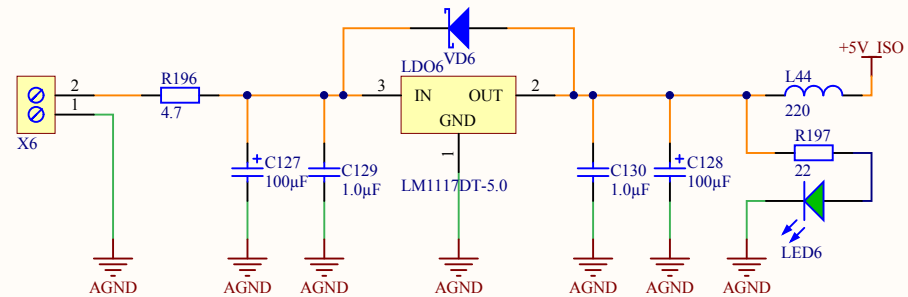
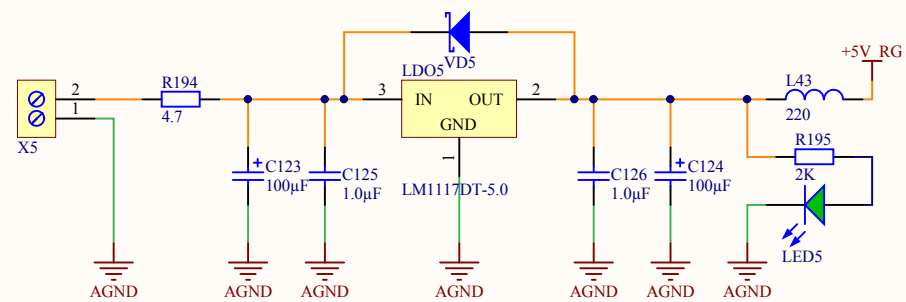


Title OSCILLATOR AND SPDT SWITCH		
Size: A4	Number: 14.	Revision: 1.2.3
Date: 26.11.2009	Time: 19:13:08	Sheet 14 of 18



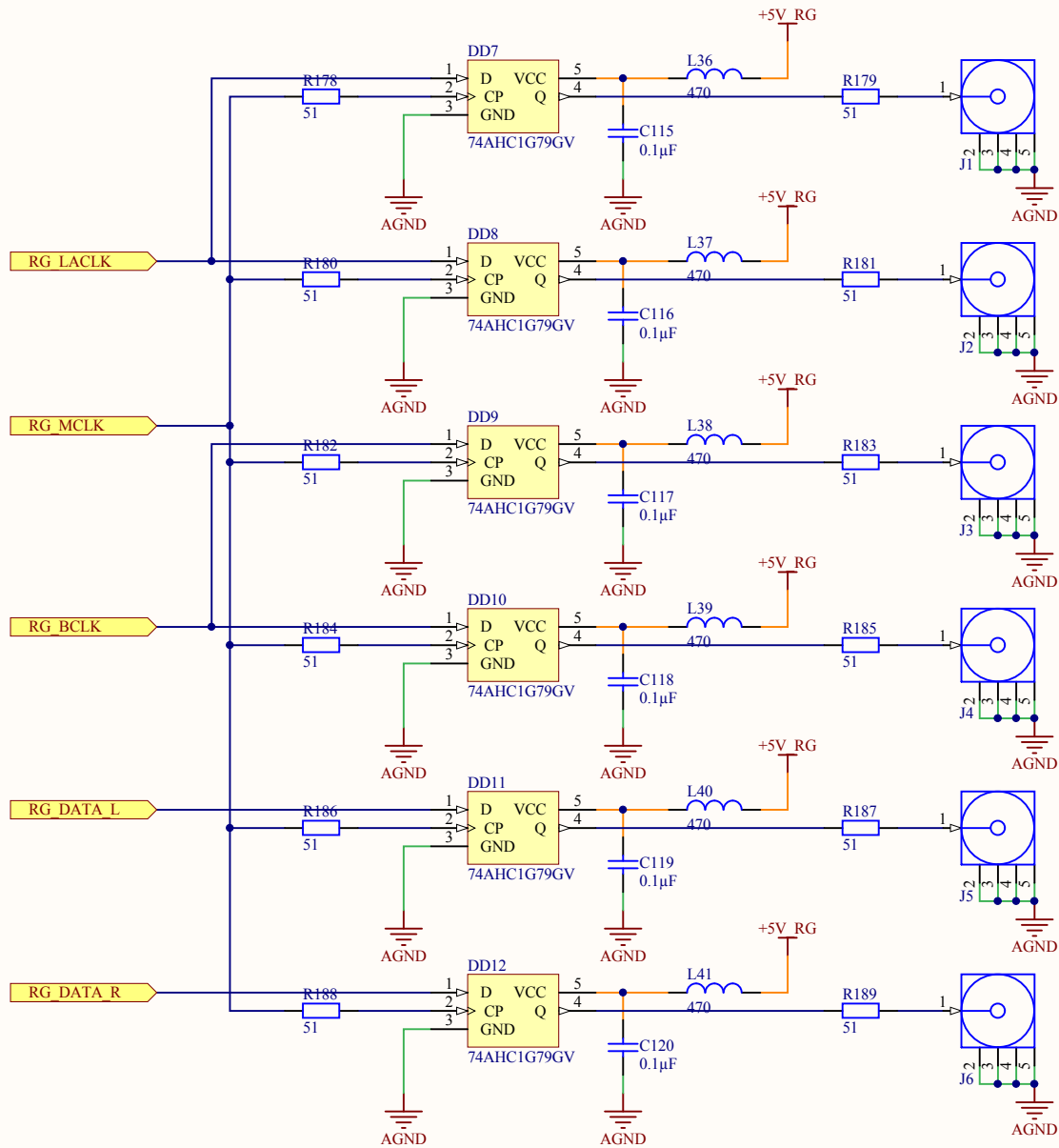






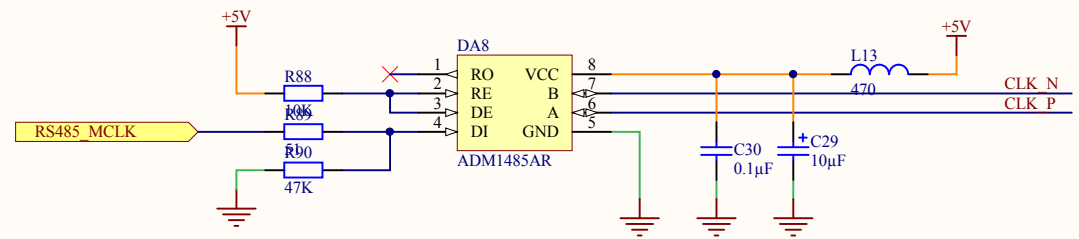
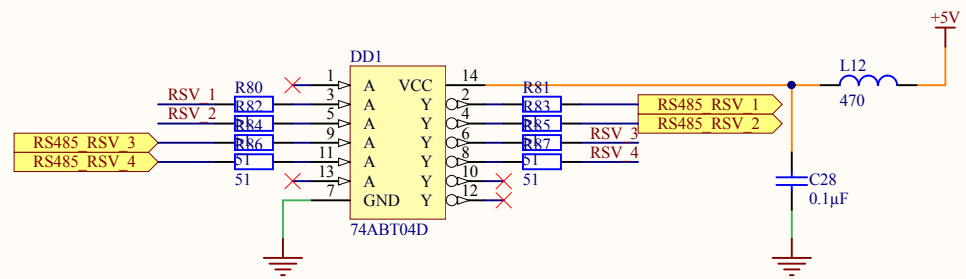
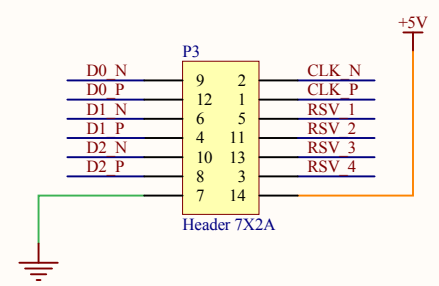
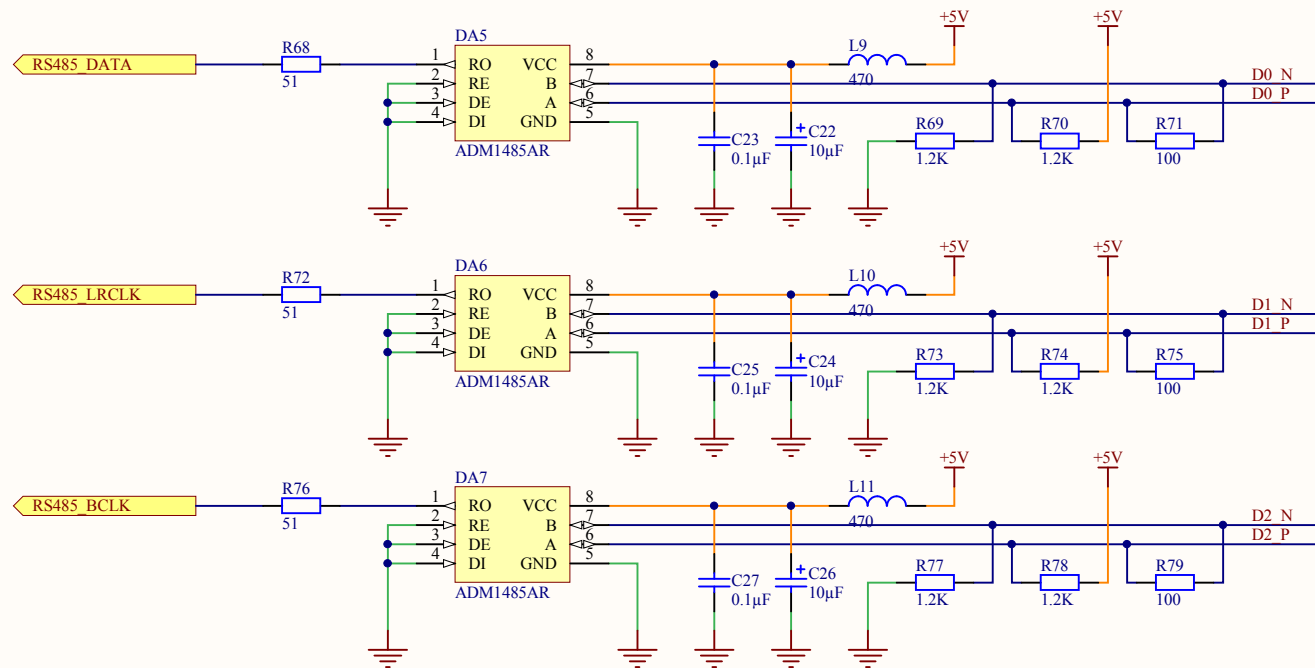
Title POWER 1		
Size: A4	Number: 17.	Revision: 1.2.3
Date: 26.11.2009	Time: 19:13:08	Sheet 17 of 18

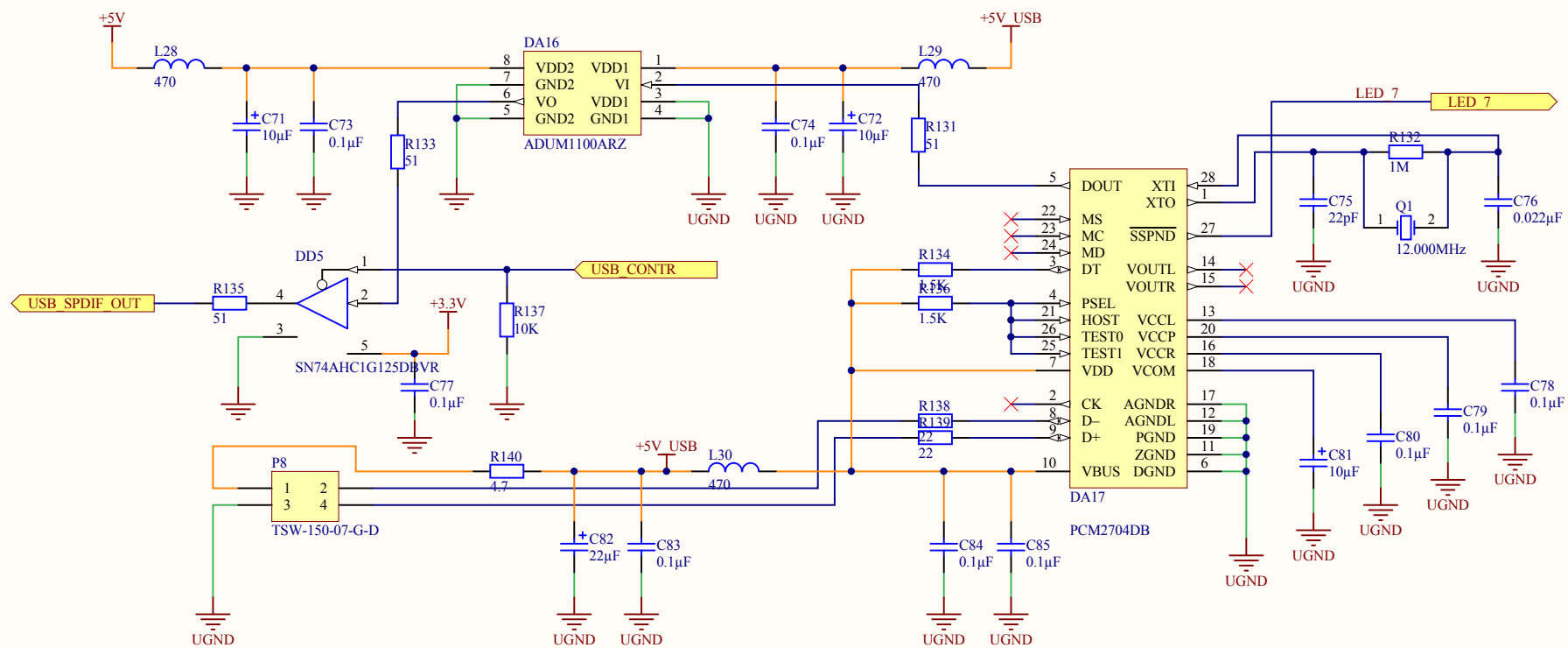




Title RECLOCK SIGNAL		
Size: A4	Number: 18.	Revision: 1.2.3
Date: 26.11.2009	Time: 19:13:09	Sheet 18 of 18







Title USB INTERFACE OUTPUT SPDIF		
Size: A4	Number: 20.	Revision: 1.2.3
Date: 26.11.2009	Time: 19:13:09	Sheet 20 of 18



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A

A



MH1



MH2



MH3



MH4

B

B

C

C

D

D

Title			
Size: A4	Number: .	Revision:	
Date: 26.11.2009	Time: 19:13:09	Sheet of 18	

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Component list

Bill of Materials For Project [DIGITAL_BOARD_INTERFACE.PrjPcb] (No PCB Document Selected)

Source Data From:

DIGITAL_BOARD_INTERFACE.PrjPcb

Project:

DIGITAL_BOARD_INTERFACE.PrjPcb

Variant:

None



Report Date: 26.11.2009 19:13:55
Print Date: 26-Nov-09 7:14:00 PM

#	Designator	LibRef	Manufacturer	Description	Footprint	Library Name	Comment	Quantity
1	C1, C7, C9, C11, C13, C15, C19, C21, C25, C27, C28, C30, C33, C34, C35, C38, C39, C40, C43, C44, C45, C48, C49, C53, C54, C56, C58, C60, C63, C65, C66, C70, C73, C74, C77, C78, C79, C80, C83, C84, C85, C102, C104, C105, C106, C107, C109, C110, C111, C112, C113, C114, C116, C117, C118, C119, C120, C122, C157, C159	CAP CER .1UF 16V X7R 0603	Murata Electronics North America	CAP CER .1UF 16V X7R 0603	CAPC1608N	MY_LIBS.DbLib	GCM188R71C104KA37D	64
2	C2, C22, C24, C26, C29, C31, C32, C36, C41, C42, C46, C47, C52, C55, C57, C62, C64, C69, C71, C72, C81, C121, C148, C158	SANYO - 10SC10M - CAPACITOR, 10UF, 10V	SANYO	SANYO - 10SC10M - CAPACITOR, 10UF, 10V	CAPPR2-5x7	MY_LIBS.DbLib	10SC10M	26
3	C3, C4, C51, C61, C68, C146, C147, C152, C154, C155	CAP CER 470PF 50V C0G 0603	Murata Electronics North America	CAP CER 470PF 50V C0G 0603	CAPC1608N	MY_LIBS.DbLib	GCM1885C1H471JA16D	11
4	C5, C50, C59, C67, C145, C150, C153	CAP CER 100PF 50V C0G 0603	Murata Electronics North America	CAP CER 100PF 50V C0G 0603	CAPC1608N	MY_LIBS.DbLib	GCM1885C1H101JA16D	7
5	C6, C8, C10, C12, C14, C18, C20, C82, C83	SANYO - 10SC22M - CAPACITOR, 22UF, 10V	SANYO	SANYO - 10SC22M - CAPACITOR, 22UF, 10V	CAPPR2.5-6.3x7	MY_LIBS.DbLib	10SC22M	9
6	C16	CAP CER 47000PF 50V 5% C0G 1206	Murata Electronics North America	CAP CER 47000PF 50V 5% C0G 1206	CAPC3216N	MY_LIBS.DbLib	GRM31M5C1H473JA01L	1
7	C17	CAP CER 68000PF 25V 5% C0G 1206	Murata Electronics North America	CAP CER 68000PF 25V 5% C0G 1206	CAPC3216N	MY_LIBS.DbLib	GRM31C5C1E683JA01L	1
8	C75	CAP CER 22PF 100V C0G 0603	Murata Electronics North America	CAP CER 22PF 100V C0G 0603	CAPC1608N	MY_LIBS.DbLib	GCM1885C2A220JA16D	1
9	C76, C135, C142	CAP CER 22000PF 50V C0G 5% 0805	Murata Electronics North America	CAP CER 22000PF 50V C0G 5% 0805	CAPC2012N	MY_LIBS.DbLib	GCM21B5C1H223JA16L	3
10	C86, C87, C90, C91, C94, C95, C98, C99, C123, C124, C127, C128	SANYO - 16SA100M - CAPACITOR, 100UF, 16V	SANYO	SANYO - 16SA100M - CAPACITOR, 100UF, 16V	CAPPR3.5-8x10.5	MY_LIBS.DbLib	16SA100M	12
11	C88, C89, C92, C93, C96, C97, C100, C112, C126, C129, C130, C132, C136, C137	CAP CER 1UF 50V X7R 0805	Murata Electronics North America	CAP CER 1UF 50V X7R 0805	CAPC2012N	MY_LIBS.DbLib	GRM21BR71H105KA12L	18

9	C78, C133, C142	CAP CER 2200PF 50V C0G 5% 0805	Murata Electronics North America	CAP CER 2200PF 50V C0G 5% 0805	CAPC2012N	MY_LIBS.DbLib	GCM21B3C1H223JA16L	3
10	C86, C87, C90, C91, C94, C95, C98, C99, C123, C124, C127, C128	SANYO - 16SA100M - CAPACITOR, 100UF, 16V	SANYO	SANYO - 16SA100M - CAPACITOR, 100UF, 16V	CAPPR3.5-8x10.5	MY_LIBS.DbLib	16SA100M	12
11	C88, C89, C92, C93, C96, C97, C100, C112, C125, C126, C129, C130, C132, C136, C139, C143, C144	CAP CER 1UF 50V X7R 0805	Murata Electronics North America	CAP CER 1UF 50V X7R 0805	CAPC2012N	MY_LIBS.DbLib	GRM21BR71H105KA12L	18
12	C131, C138	CAP 220UF 25V PREMIUM AUDIO RAD	Nichicon	CAP 220UF 25V PREMIUM AUDIO RAD	CAPPR5-12.5x20	MY_LIBS.DbLib	UKZ1E221MHM	2
13	C133, C134, C140, C141	CAP 47UF 25V PREMIUM AUDIO RAD	Nichicon	CAP 47UF 25V PREMIUM AUDIO RAD	CAPPR5-10x12.5	MY_LIBS.DbLib	UKZ1E470MPM	4
14	DA1	DIT4192IPW	Texas Instruments	IC DIG AUDIO TRANSMTR 5V 28TSSOP	TSOP65P640-28AN	MY_LIBS.DbLib	DIT4192IPW	1
15	DA2	SM5842AP		High-Class Audio Multi-function Digital Filter	215J	MY_LIBS.DbLib	SM5842AP	1
16	DA3	DIR9001IPWQ1	Texas Instruments	IC DGLT AUDIO INTFC RCVR 28TSSOP	TSOP65P640-28AN	MY_LIBS.DbLib	DIR9001IPWQ1	1
17	DA4	SRC4192IDB	Texas Instruments	IC 192KHZ SAMPL RATE CONV 28SSOP	SOP65P780-28N	MY_LIBS.DbLib	SRC4192IDB	1
18	DA5, DA6, DA7, DA8, DA13, DA14, DA15, DA22, DA23, DA24	ADM1485AR	Analog Devices Inc	IC TX/RX RS-485 HS 5V 8SOIC	SOIC127P600-8BN	MY_LIBS.DbLib	ADM1485AR	10
19	DA9, DA10, DA11, DA12	ISO150AU	Texas Instruments	IC BI-DIR DIGTL CUPLR 28-SOIC	217-1G_N	MY_LIBS.DbLib	ISO150AU	4
20	DA16	ADUM1100ARZ	Analog Devices Inc	IC DIGITAL ISOL/COUPLER 8-SOIC	SOIC127P600-8BN	MY_LIBS.DbLib	ADUM1100ARZ	1
21	DA17	PCM2704DB	Texas Instruments	IC STEREO AUD DAC W/USB 28-SSOP	SOP65P780-28N	MY_LIBS.DbLib	PCM2704DB	1
22	DA18	ADM708ARZ	Analog Devices Inc	IC SUPERVISOR MPU 4.4 WD 8SOIC	SOIC127P600-8AN	MY_LIBS.DbLib	ADM708ARZ	1
23	DA19	ADG719BRTZ	Analog Devices Inc	IC SWITCH SPDT SOT23-6	SOT26A-6N	MY_LIBS.DbLib	ADG719BRTZ	1
24	DA20, DA21	AD586KR	Analog Devices Inc	IC PREC VOLT REF 5V 8-SOIC	SOIC127P600-8BN	MY_LIBS.DbLib	AD586KR	2
25	DD1	74ABT04D	NXP Semiconductors	IC INVERTER HEX 14SOIC	SOIC127P600-14AN	MY_LIBS.DbLib	74ABT04D	1
26	DD2, DD3, DD4, DD5	SN74AHC1G125DBVR	Texas Instruments	IC BUS BUFF TRI-ST N-INV SOT235	SOT353-5N	MY_LIBS.DbLib	SN74AHC1G125DBVR	4
27	DD6	EPM3256ATC144-10	Altera	IC MAX 3000A CPLD 256 144-TQFP	TSQFP50P2200X2200-144N	MY_LIBS.DbLib	EPM3256ATC144-10	1
28	DD7, DD8, DD9, DD10, DD11, DD12	74AHC1G79GV	NXP Semiconductors	IC D-F-F POS-EDGE TRIG SC74A-5	SOT353-5N	MY_LIBS.DbLib	74AHC1G79GV	6
29	J1, J2, J3, J4, J5, J6	CONN JACK SMA STR 50 OHM PCB	Molex Connector Corporation	CONN JACK SMA STR 50 OHM PCB	SMA_V-RJ45	MY_LIBS.DbLib	73391-0070	6
30	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L35, L36, L37, L38, L39, L40, L41, L44, L45, L46, L47, L48, L49	FERRITE CHIP 470 OHM 1000MA 0603	Murata Electronics North America	FERRITE CHIP 470 OHM 1000MA 0603	INDC1608N	MY_LIBS.DbLib	BLM18PG471SN1D	43
31	L31, L32, L33, L34, L43, L44	FERRITE CHIP 220 OHM 2000MA 0805	Murata Electronics North America	FERRITE CHIP 220 OHM 2000MA 0805	INDC2012N	MY_LIBS.DbLib	BLM21PG221SN1D	6
32	LDO1, LDO2	LM1117DT-3.3	National Semiconductor	800mA Low-Dropout Linear Regulator	TO228P960-3_4N	MY_LIBS.DbLib	LM1117DT-3.3	2
33	LDO3, LDO4	LM1117T-5.0	National Semiconductor	IC REG LDO 800MA 5.0V TO-220	SFM-T3/A4.7V	MY_LIBS.DbLib	LM1117T-5.0	2
34	LDO5, LDO6	LM1117DT-5.0	National Semiconductor	800mA Low-Dropout Linear Regulator	TO228P960-3_4N	MY_LIBS.DbLib	LM1117DT-5.0	2
35	LED1, LED2, LED3, LED4	LED 1.6X0.8MM 625NM RED CLR SMD	Kingbright Corp	LED 1.6X0.8MM 625NM RED CLR SMD	CD1608-0603	MY_LIBS.DbLib	APT1608EC	4
36	LED5, LED6	LED 1.6X0.8MM 570NM GRN CLR SMD	Kingbright Corp	LED 1.6X0.8MM 570NM GRN CLR SMD	CD1608-0603	MY_LIBS.DbLib	APT1608CGCK	2
37	LED7, LED8	LED 1.6X0.8MM 470NM BLU CLR SMD	Kingbright Corp	LED 1.6X0.8MM 470NM BLUE CLR SMD	CD1608-0603	MY_LIBS.DbLib	APT1608PBC/A	2
38	P1, P8	Header, 2-Pin, Dual row	Samtec Inc	Header, 2-Pin, Dual row	HDR2X2	MY_LIBS.DbLib	TSW-150-07-G-D	2
39	P2, P5, P6, P7, P14, P15, P16	Header, 2-Pin	Samtec Inc	Header, 2-Pin	HDR1X2	MY_LIBS.DbLib	TSW-150-07-G-S	7
40	P3	Header, 7-Pin, Dual row	Samtec Inc	Header, 7-Pin, Dual row	HDR2X7	MY_LIBS.DbLib	Header 7X2A	1
41	P4, P10	Header, 5-Pin, Dual row	Samtec Inc	Header, 5-Pin, Dual row	HDR2X5	MY_LIBS.DbLib	TSW-150-07-G-D	2
42	P9	Header, 2-Pin	Samtec Inc	Header, 2-Pin	HDR1X2	MY_LIBS.DbLib	MHDR1X2	1
43	P11, P13	Header, 11-Pin, Dual row	Samtec Inc	Header, 11-Pin, Dual row	HDR2X11	MY_LIBS.DbLib	TSW-150-07-G-D	2
44	P12	Header, 4-Pin, Dual row	Samtec Inc	Header, 4-Pin, Dual row	HDR2X4	MY_LIBS.DbLib	TSW-150-07-G-D	1
45	Q1	ECS-120-20-5PDN-TR	ECS Inc	CRYSTAL 12.000 MHZ 20PF CSM-7	CSM-7-DN	MY_LIBS.DbLib	ECS-120-20-5PDN-TR	1
46	Q2	GXO-U100H/A 24.57600MHz		GXO-U100H/A 24.57600MHz	Oscillator_8	MY_LIBS.DbLib	GXO-U100H/A 24.57600MHz	1
47	Q3	GXO-U100H/A 33.8688MHz		GXO-U100H/A 33.8688MHz	Oscillator_8	MY_LIBS.DbLib	GXO-U100H/A 33.8688MHz	1
48	R1, R4	RES 300 OHM 1/10W 1% 0603 SMD	Yageo	RES 300 OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-07300RL	2
49	R2	RES 8.25K OHM 1/10W 1% 0603 SMD	Yageo	RES 8.25K OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-078K25L	1
50	R3	RES 100 OHM 1/10W 1% 0603 SMD	Yageo	RES 100 OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-07100RL	1
51	R5, R6, R7, R8, R9, R11, R15, R17, R19, R21, R23, R25, R27, R29, R30, R32, R33, R34, R35, R36, R37, R38, R40, R42, R44, R46, R50, R52, R54, R56, R57, R59, R61, R63, R64, R65, R66, R68, R112, R114, R123, R126, R130, R137, R150, R152, R154, R155, R156, R157, R158, R159, R161, R162, R163, R164, R165, R166, R168, R169, R170, R171, R172, R173, R175, R176, R177	RES 10.0K OHM 1/10W 1% 0603 SMD	Yageo	RES 10.0K OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-0710KL	72
52	R10, R108, R119, R127, R132, R205, R206, R211	RES 1.00M OHM 1/10W 1% 0603 SMD	Yageo	RES 1.00M OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-071ML	8
53	R12, R13, R14, R16, R18, R20, R22, R24, R26, R28, R31, R39, R41, R43, R45, R47, R49, R51, R53, R55, R58, R60, R62, R67, R68, R72, R76, R80, R81, R82, R83, R84, R85, R86, R87, R89, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R103, R104, R105, R106, R110, R111, R116, R117, R121, R124, R125, R129, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R207, R208, R209, R210, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R245, R246, R247, 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	R49, R51, R53, R55, R58, R60, R62, R67, R68, R72, R76, R80, R81, R82, R83, R84, R85, R86, R87, R89, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R103, R104, R105, R106, R110, R111, R116, R117, R121, R124, R125, R129, R133, R135, R149, R151, R178, R179, R181, R182, R183, R184, R185, R186, R188, R189, R190, R191, R192, R193, R212, R214							
54	R48	RES 680 OHM .4W 1% 0204 MELF	Vishay/Beyschlag	RES 680 OHM .4W 1% 0204 MELF	MMA0204	MY_LIBS.DbLib	MMA02040C6800FB300	1
55	R69, R70, R73, R74, R77, R78	RES 1.2K OHM .4W 1% 0204 MELF	Vishay/Beyschlag	RES 1.2K OHM .4W 1% 0204 MELF	MMA0204	MY_LIBS.DbLib	MMA02040C1201FB300	6
56	R71, R75, R79	RES 100 OHM .4W 1% 0204 MELF	Vishay/Beyschlag	RES 100 OHM .4W 1% 0204 MELF	MMA0204	MY_LIBS.DbLib	MMA02040C1000FB300	3
57	R90, R207, R213, R215	RES 47.0K OHM 1/10W 1% 0603 SMD	Yageo	RES 47.0K OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-0747KL	4
58	R107, R115, R122	RES 6.20K OHM 1/10W 1% 0603 SMD	Yageo	RES 6.20K OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-076K2L	3
59	R109, R120, R128, R204, R208, R210	RES 75.0 OHM 1/10W 1% 0603 SMD	Yageo	RES 75.0 OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-0775RL	6
60	R134, R136	RES 1.50K OHM 1/10W 1% 0603 SMD	Yageo	RES 1.50K OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-071K5L	2
61	R138, R139	RES 22.0 OHM 1/10W 1% 0603 SMD	Yageo	RES 22.0 OHM 1/10W 1% 0603 SMD	RESC1608N	MY_LIBS.DbLib	RC0603FR-0722RL	2
62	R140, R199, R202	RES 4.7 OHM .4W 1% 0204 MELF	Vishay/Beyschlag	RES 4.7 OHM .4W 1% 0204 MELF	MMA0204	MY_LIBS.DbLib	MMA02040C4708FB300	3
63	R141, R143, R144, R147, R194, R196, R201	RES 4.7 OHM 1W 1% 0207 MELF	Vishay/Beyschlag	RES 4.7 OHM 1W 1% 0207 MELF	MMB0207	MY_LIBS.DbLib	MMB02070C4708FB200	8
64	R142, R145, R146, R148, R195, R200, R202	RES 2.0K OHM .4W 1% 0204 MELF	Vishay/Beyschlag	RES 2.0K OHM .4W 1% 0204 MELF	MMA0204	MY_LIBS.DbLib	MMA02040C2001FB300	7
65	R197	RES 22 OHM .4W 1% 0204 MELF	Vishay/Beyschlag	RES 22 OHM .4W 1% 0204 MELF	MMA0204	MY_LIBS.DbLib	MMA02040C2209FB300	1
66	T1, T2, T3, T4, T5, T6, T7	PE-65612NL	Pulse	AUDIO TRANS 1:1 2000VRMS	PE-65612NL	MY_LIBS.DbLib	PE-65612NL	7
67	VD1, VD2, VD3, VD4, VD5, VD6	TMMBAT41FILM	STMicroelectronics	DIODE SCHTKY 100MA 100V MINIMELF	MELF-D3513-1405	MY_LIBS.DbLib	TMMBAT41FILM	6
68	X1, X2, X3, X4, X5, X6, X7, X8	TERMINAL BLOCK 3.5MM 2POS PCB	On Shore Technology Inc	TERMINAL BLOCK 3.5MM 2POS PCB	ED350_2	MY_LIBS.DbLib	ED555/2DS	8
Approved			Notes					519

MH1



MH2

