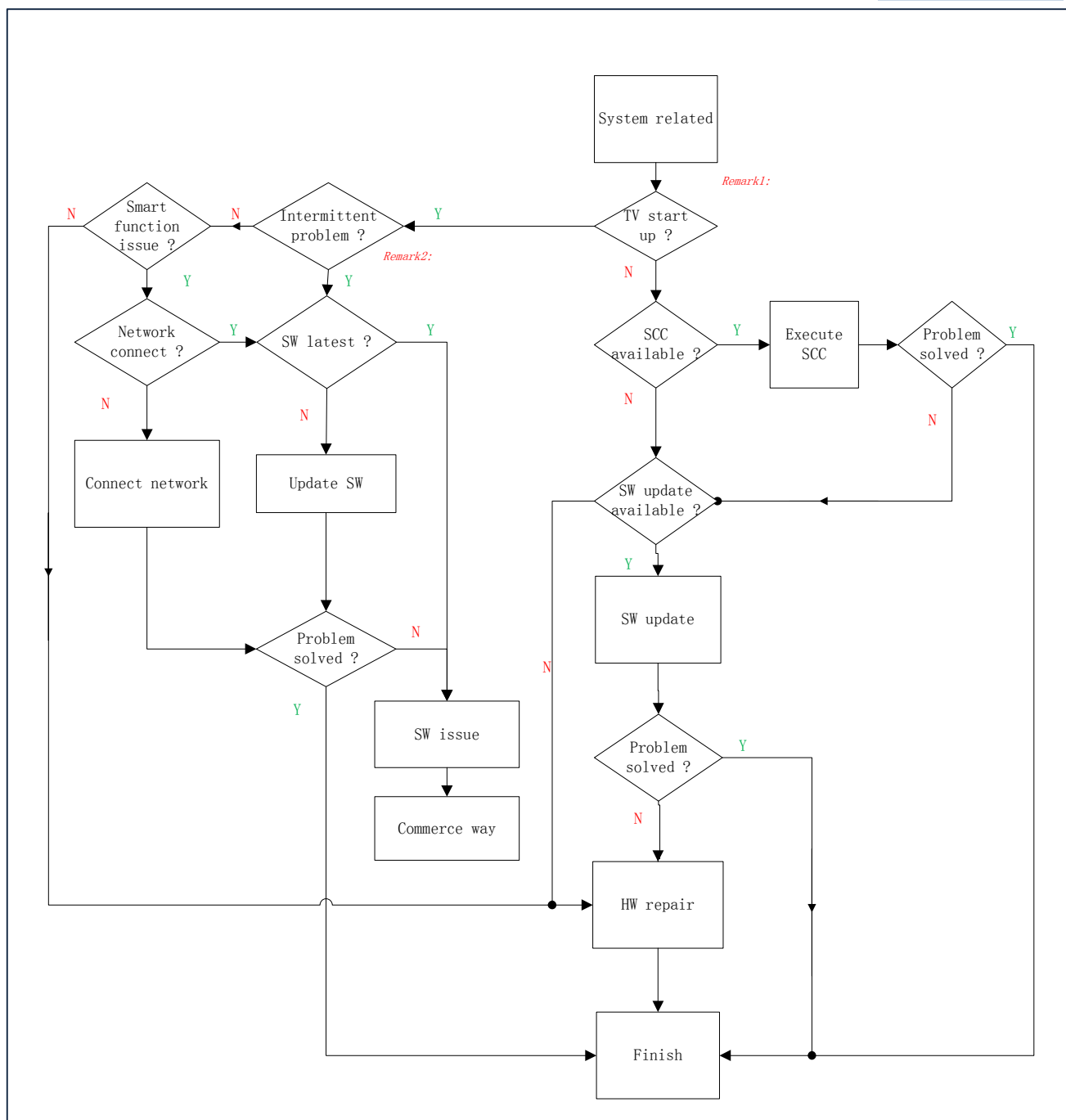




Remark1 : What is System related issue ?

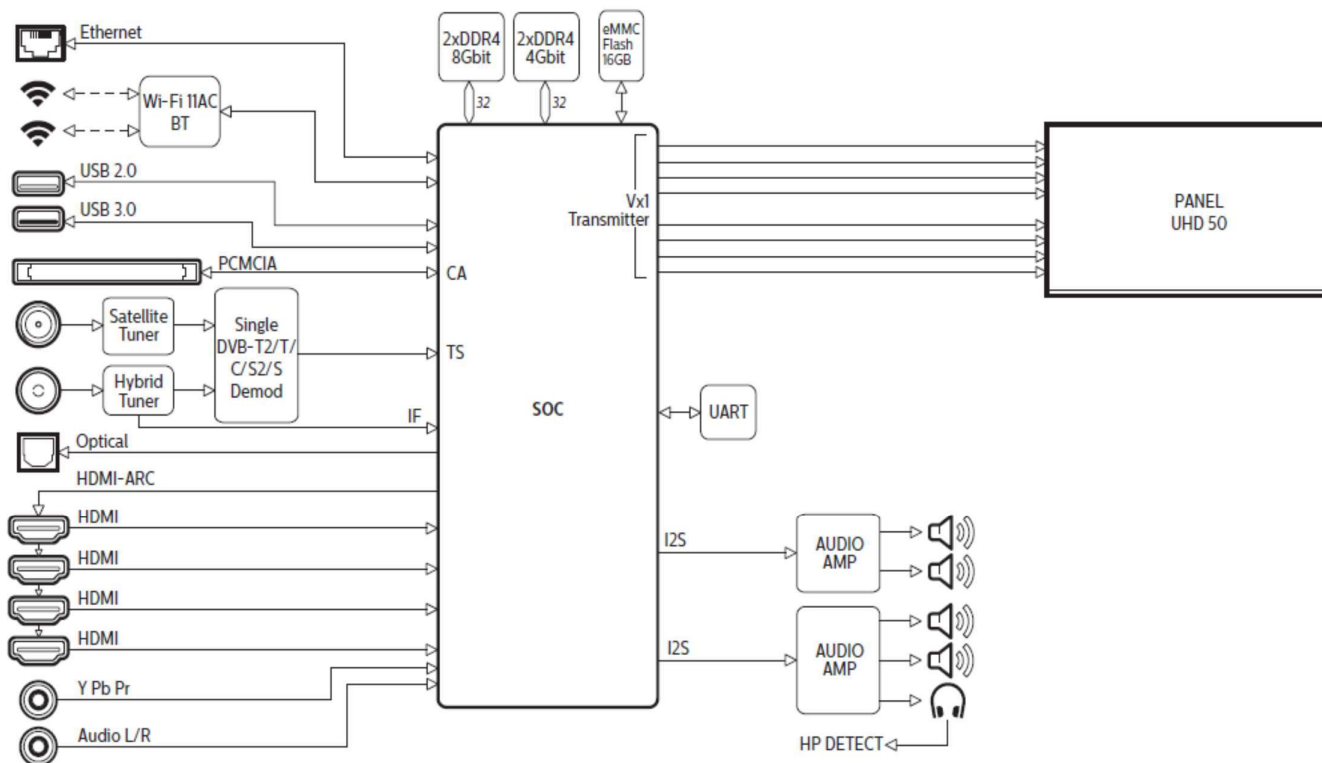
1. Permanent reboots
2. Intermittent reboots
3. No function, no standby LED (set dead)
4. No function, blinking LED
5. Set freezes, intermittently
6. Slow response to user interaction
7. Switches ON by itself
8. Switches Off by itself
9. Stuck in standby mode / unable to start up
10. Stuck on PHILIPS / ANDROID logo
11. CAM not recognized by TV
12. CAM authentication issue
13. Misc CAM issue
14. IP-EPG issues
15. BC-EPG issues
16. PVR issues w/ BC-EPG
17. PVR issues w/ IP-EPG
18. PVR issues / generic
19. EDFU-related issue
20. Features not available in UI / cannot be activated

Remark2 : How to judge intermittent issue ?

1. When the problem happened can be solved by:
 - 1) AC off AC on
 - 2) DC off DC on
 - 3) RC switch different source
2. The problem intermittent happened

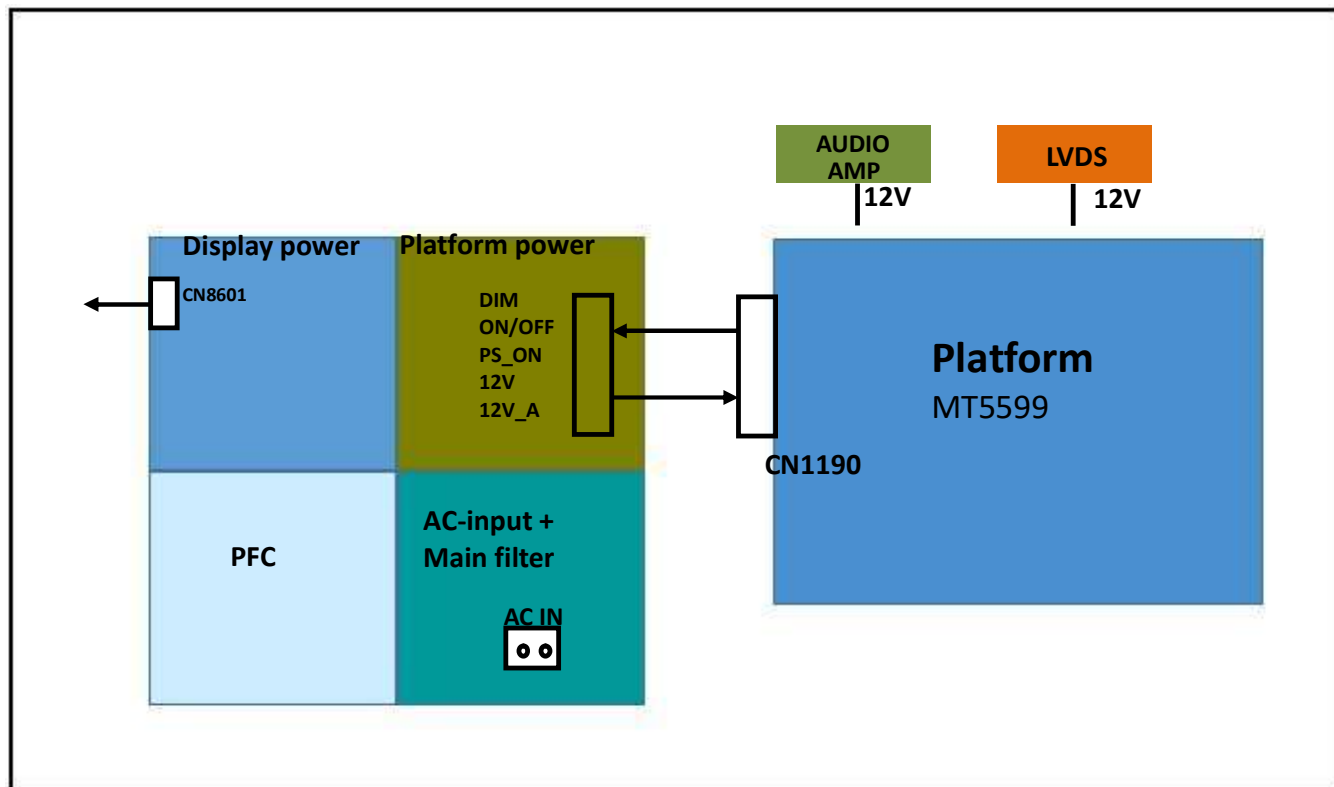
7. Electrical Diagram

7.1 Block diagram

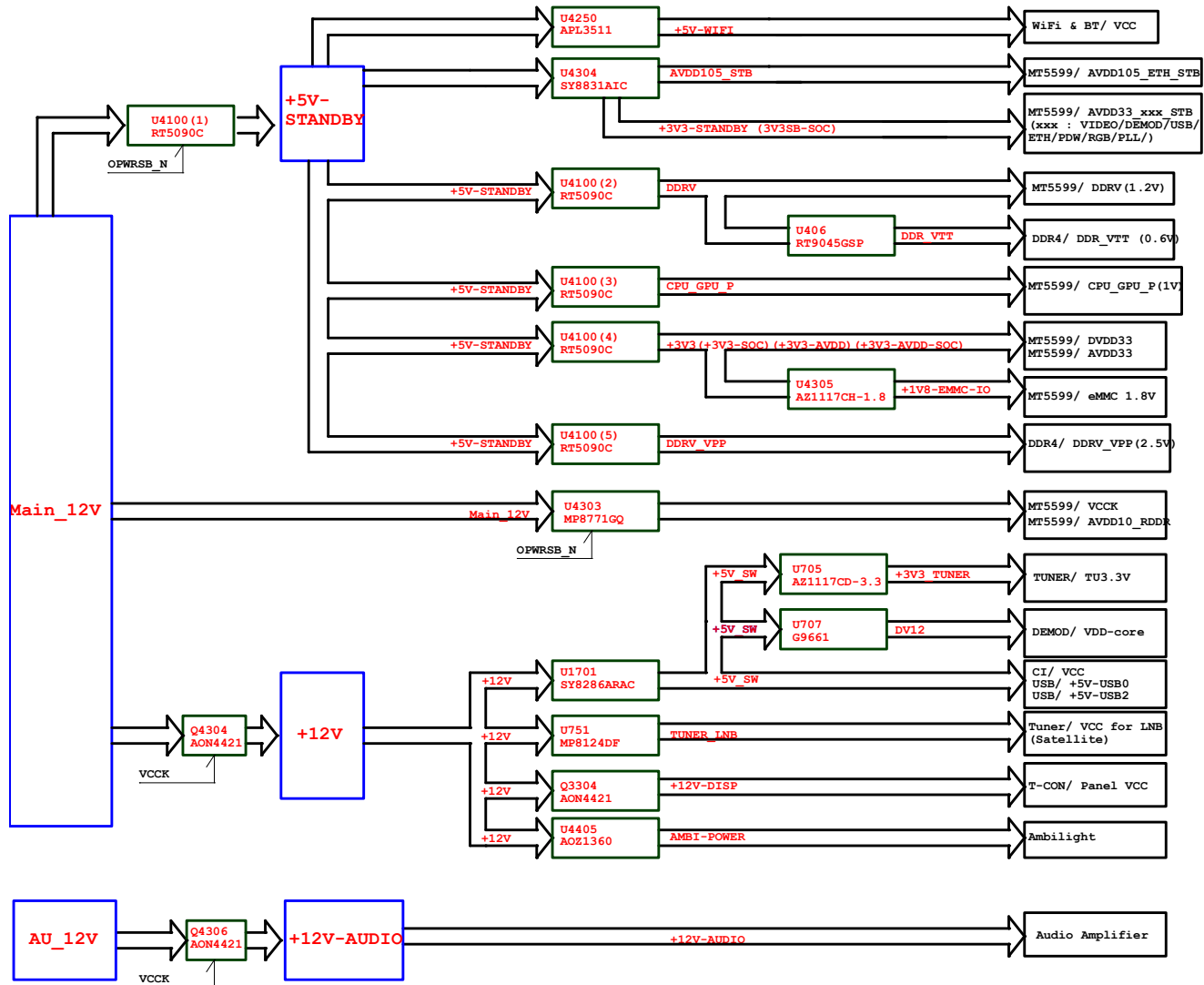


7.2 Power Supply

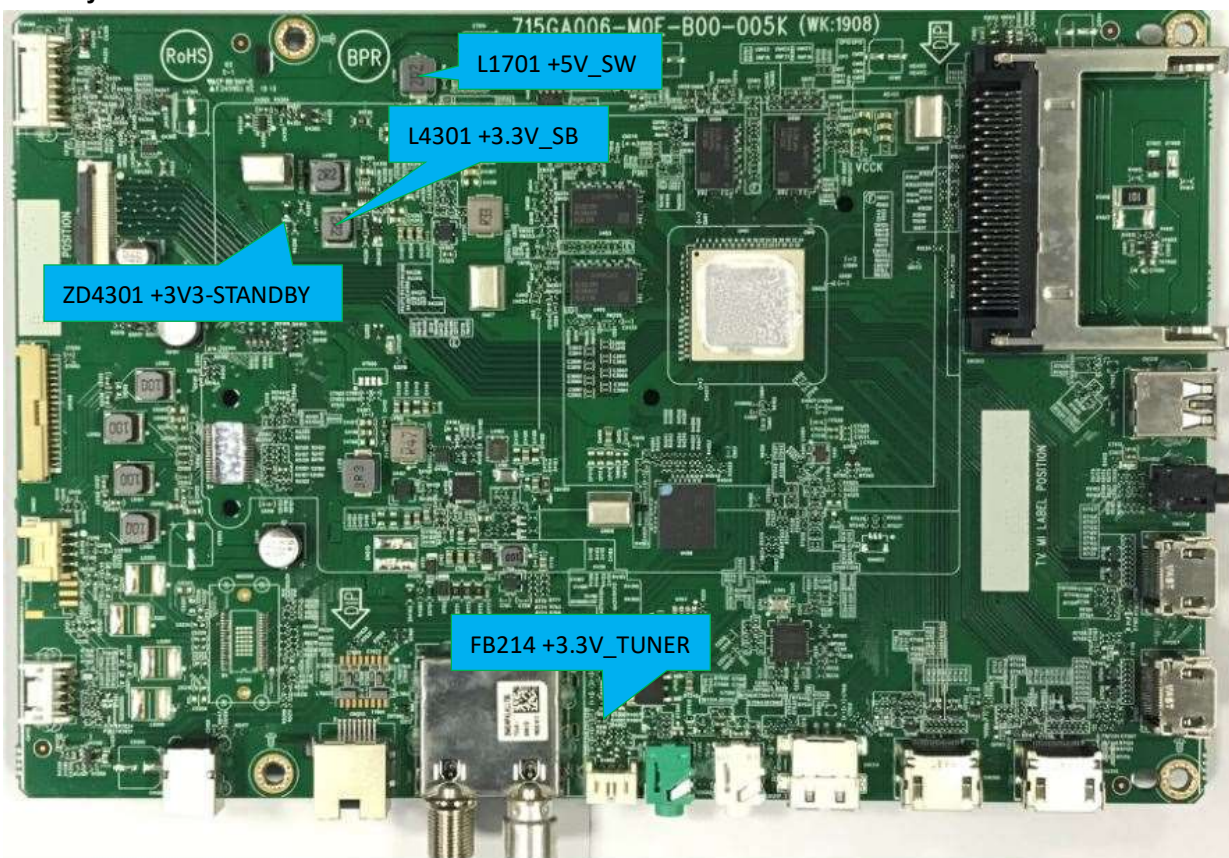
Power architecture of this platform.



7.3 Power tree



7.4 Power layout SSB



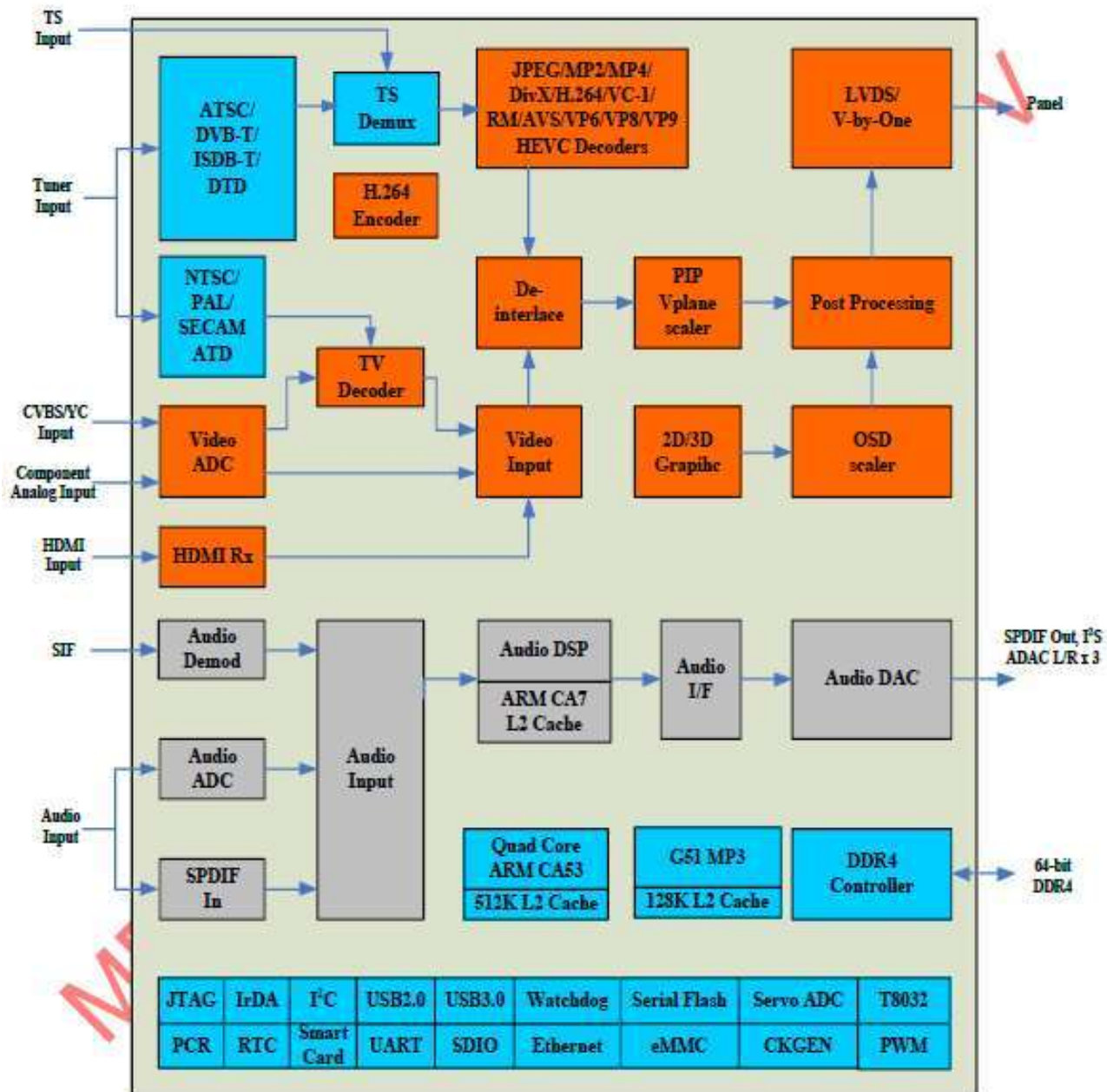
Power SSB Top View



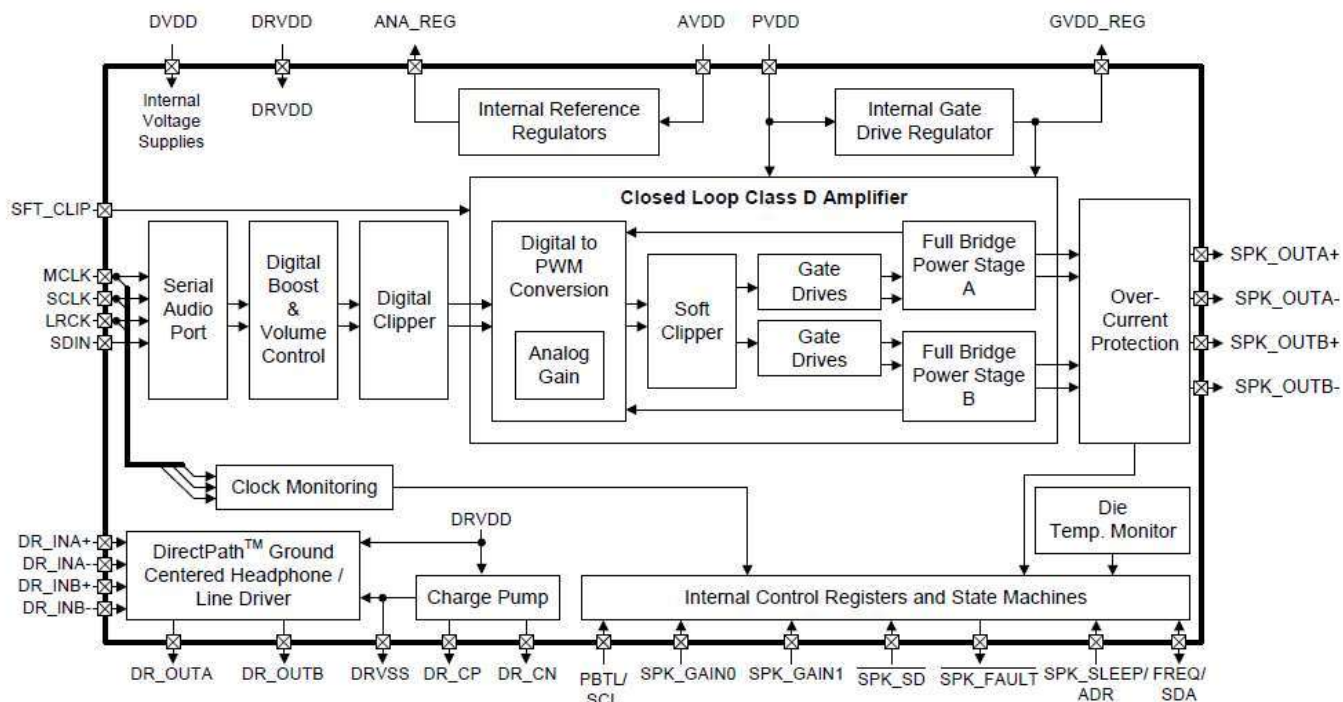
Power SSB Bottom View

8. IC Data Sheets

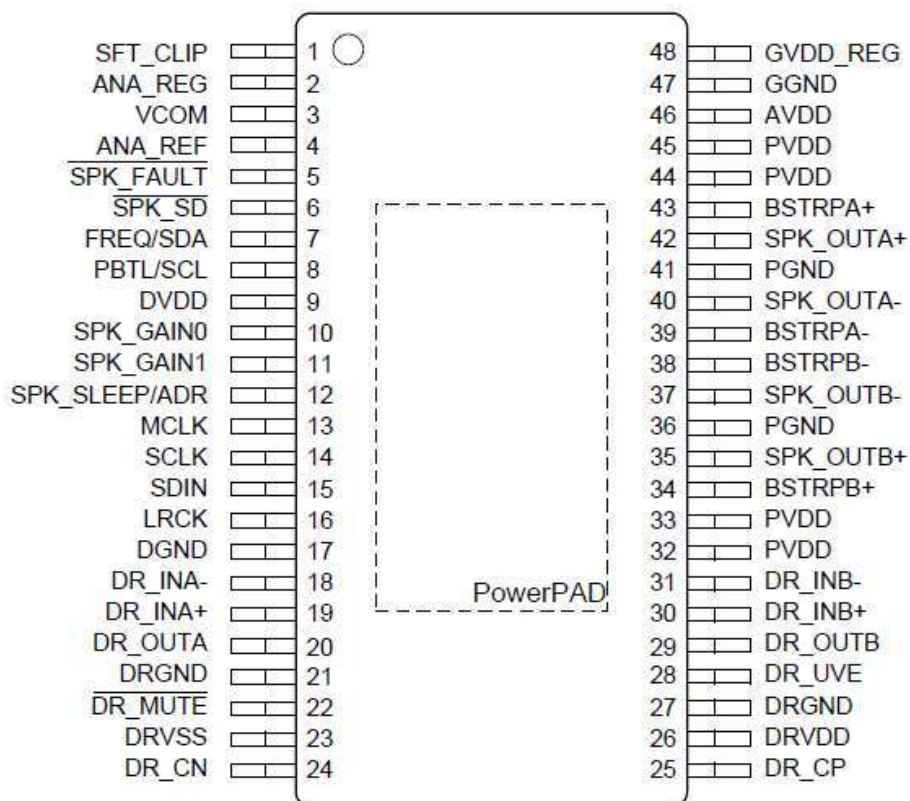
8.1 MT5599IFEQ (IC U401--Scaler)



8.2 TAS5760LDDCAR (IC U5100--Audio)

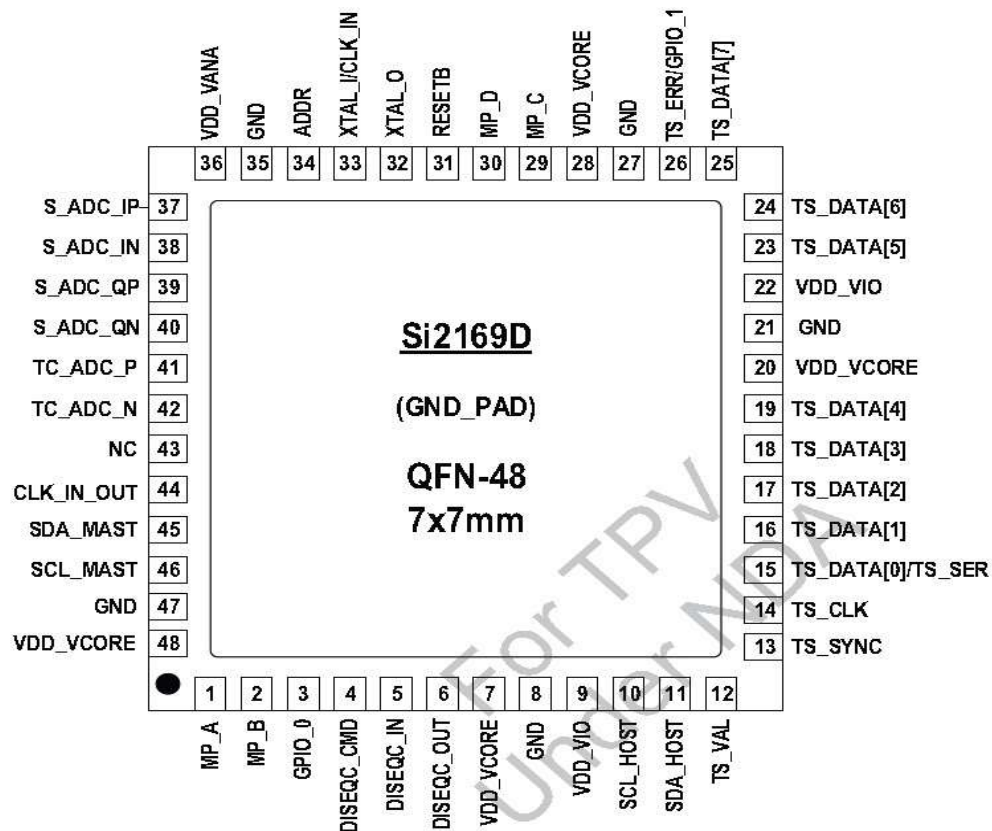
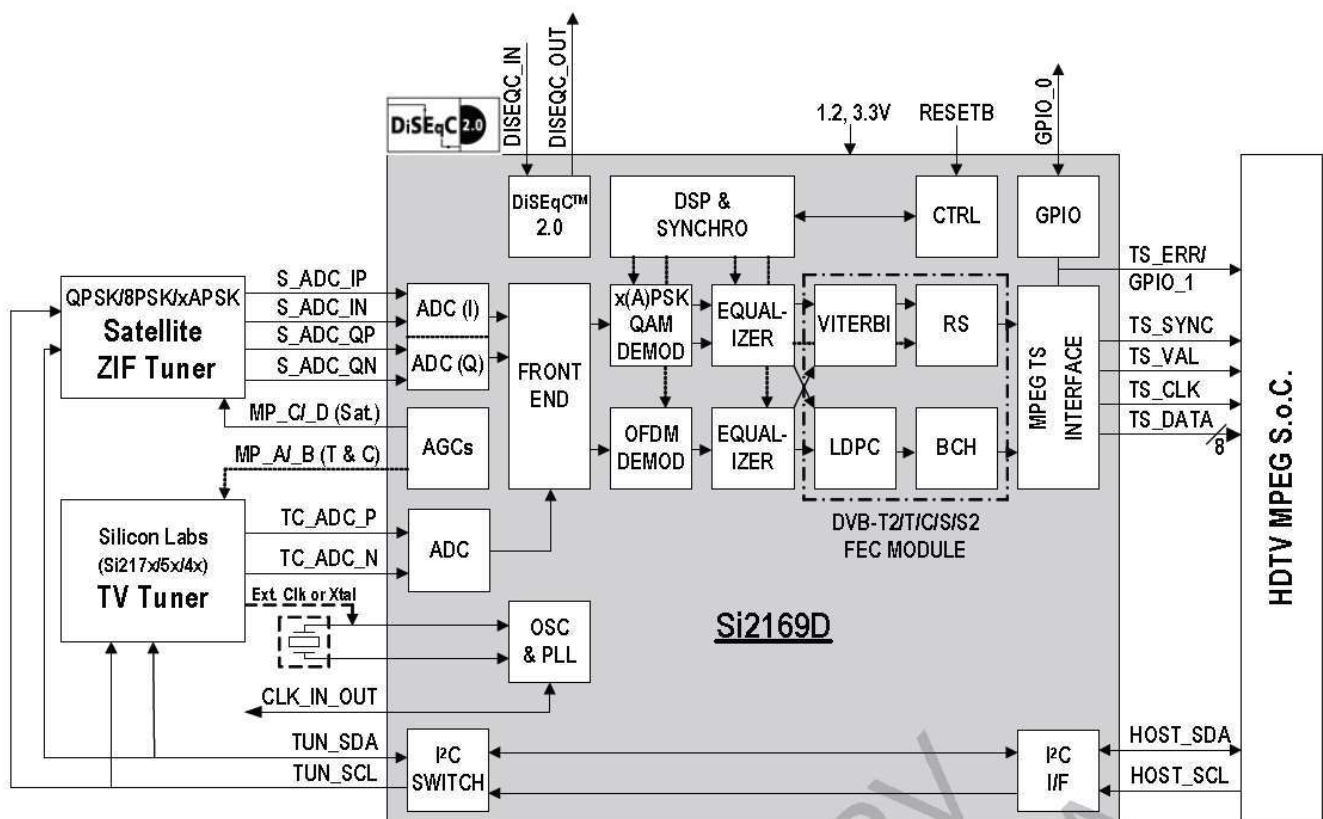


TSSOP PACKAGE DCA-48 (TOP VIEW)



8.3 SI2169-D60-GMR (U201)

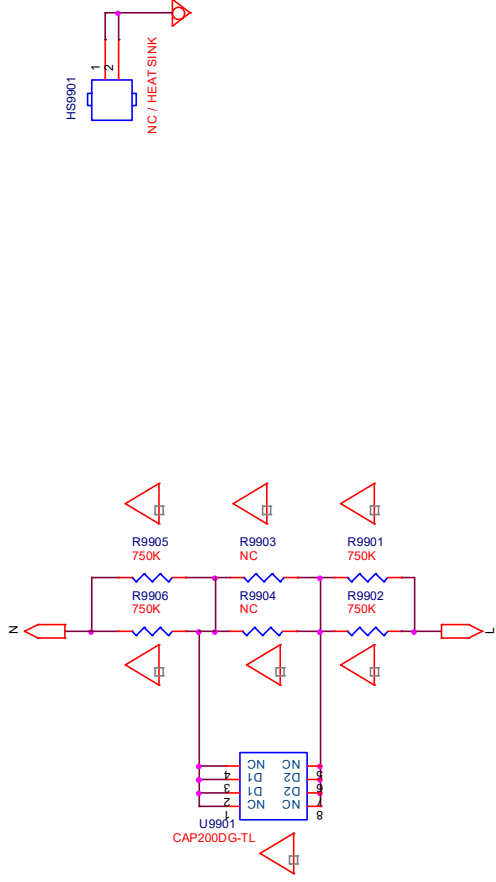
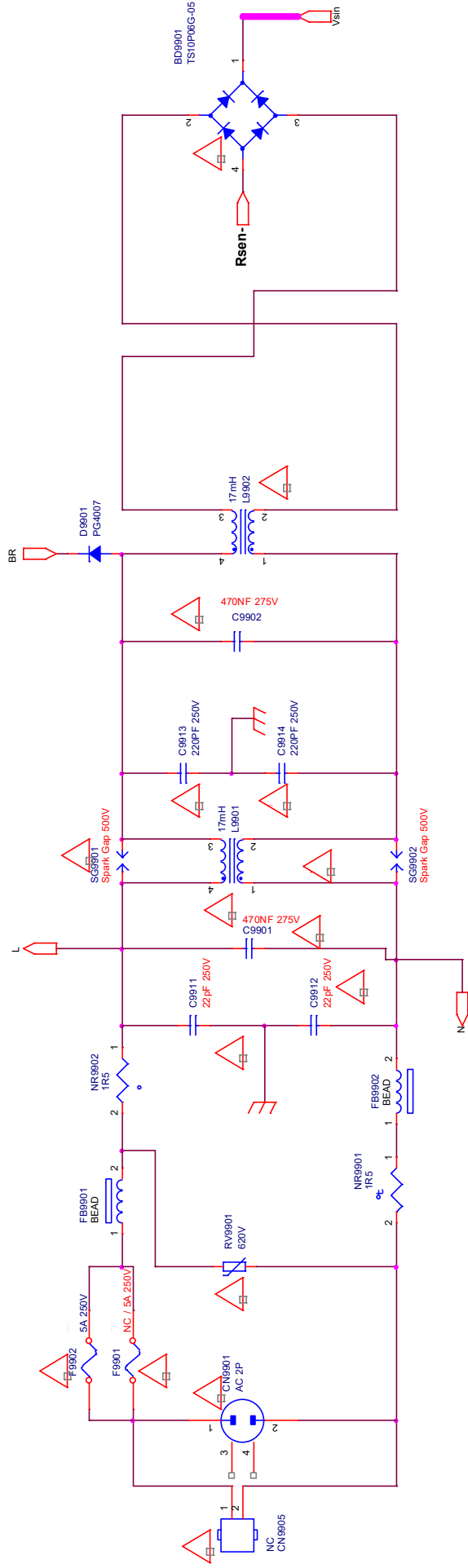
Functional Block Diagram

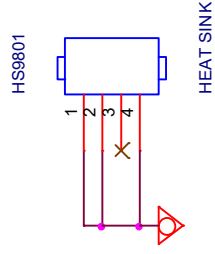


9.Circuit Diagrams

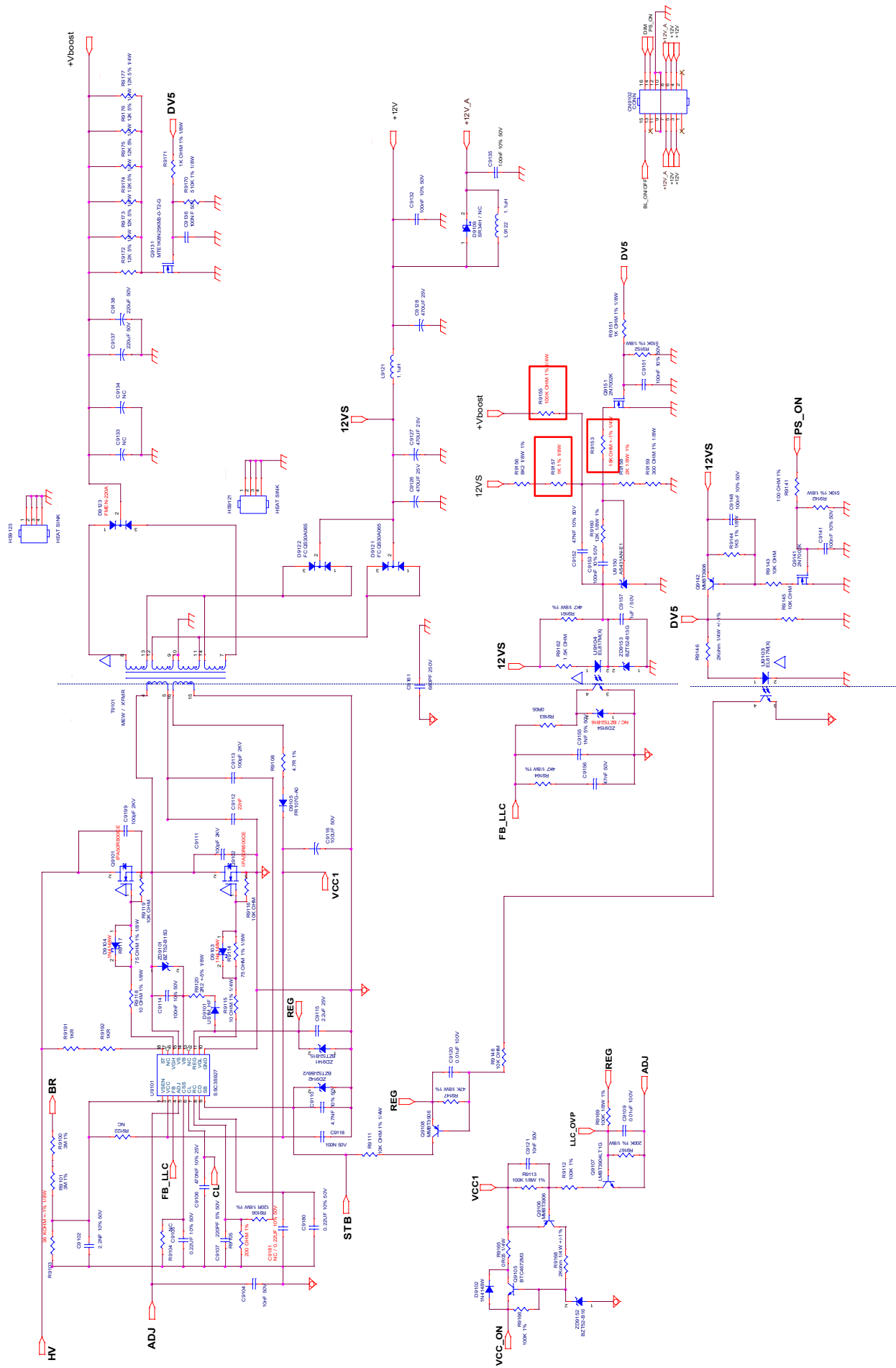
9.1 A 715GA052 PSU (For 43"85x5/9235 Series)

9-1-1 AC Input

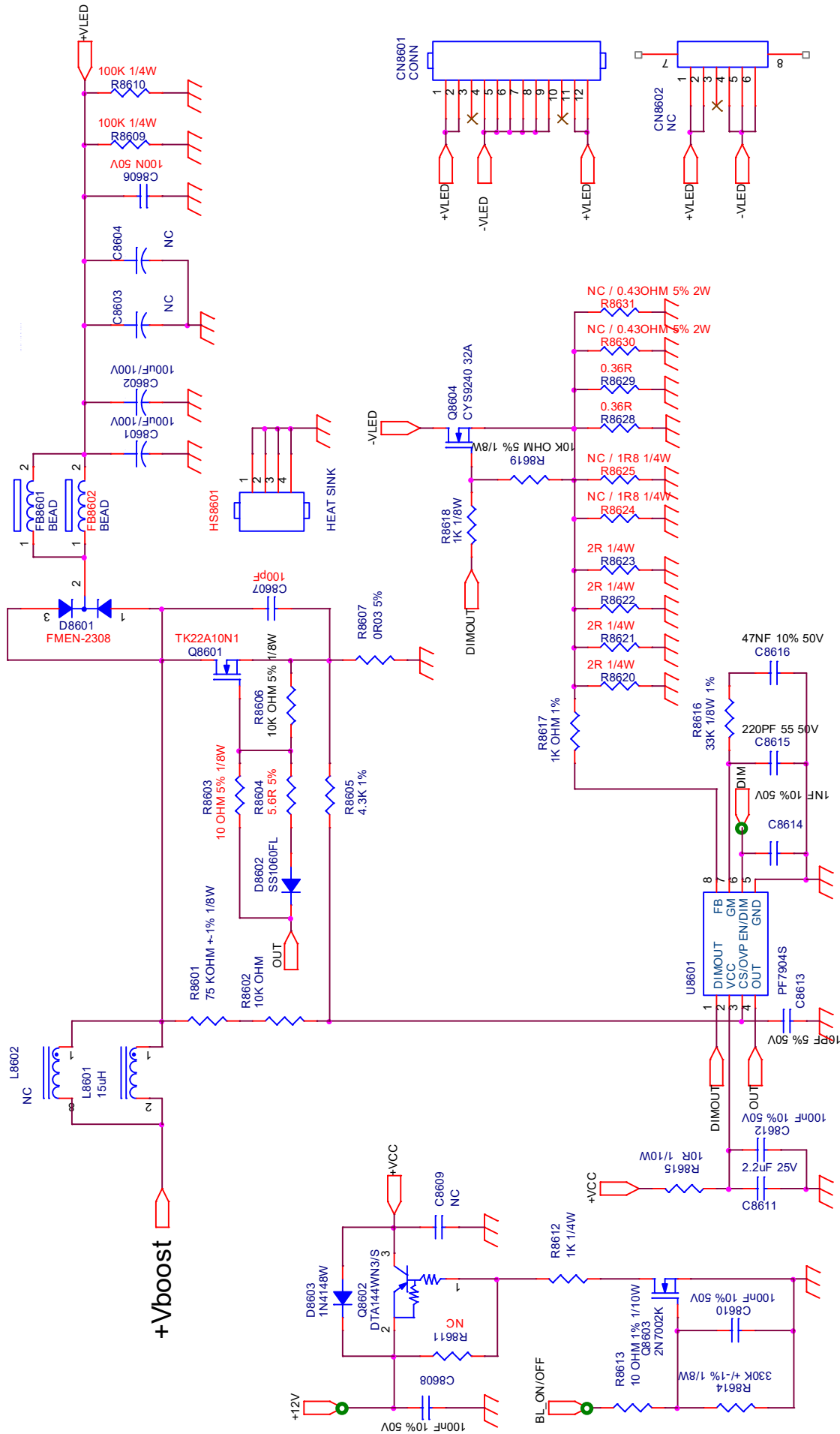




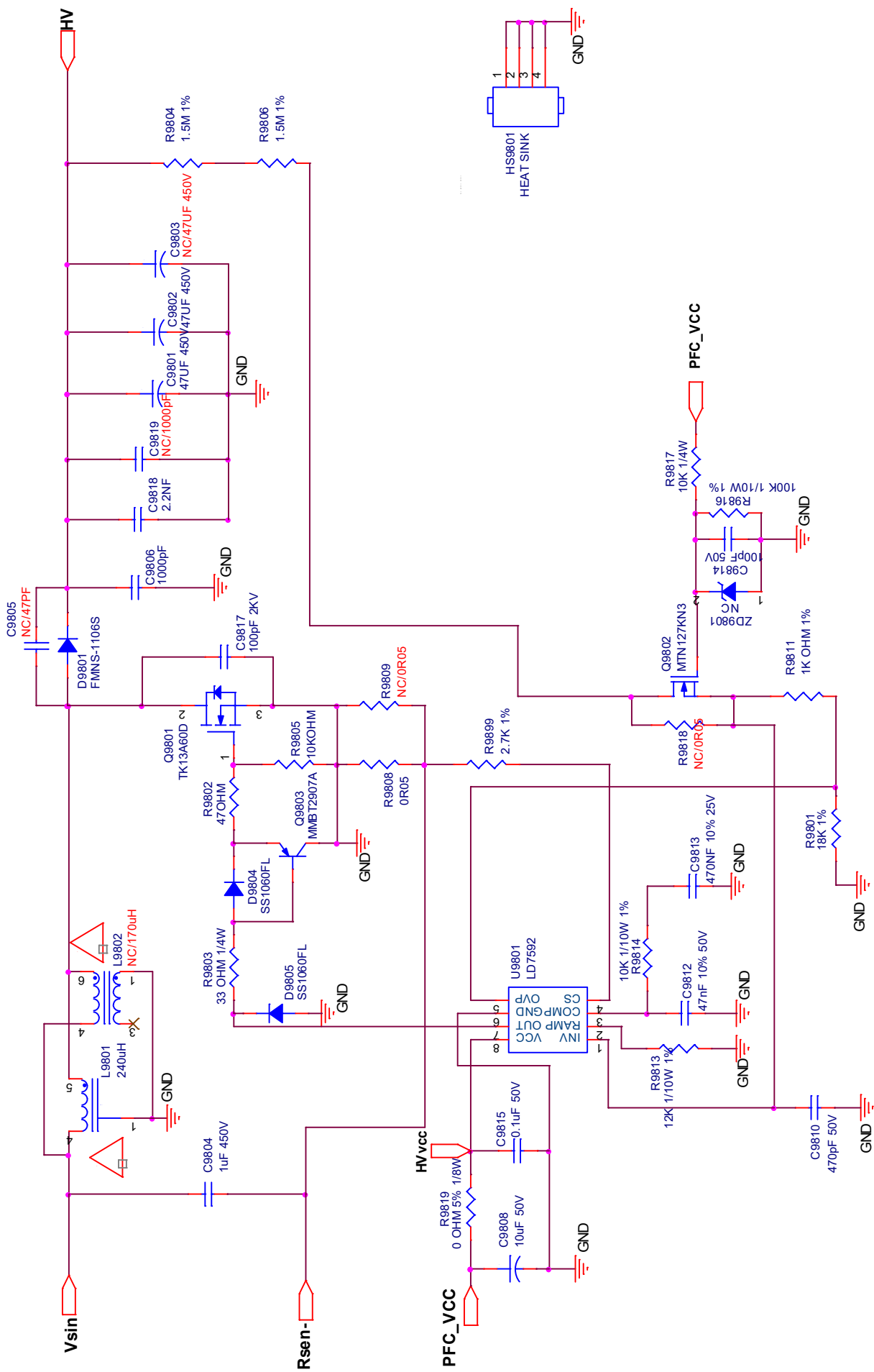
9-1-3 Main Power



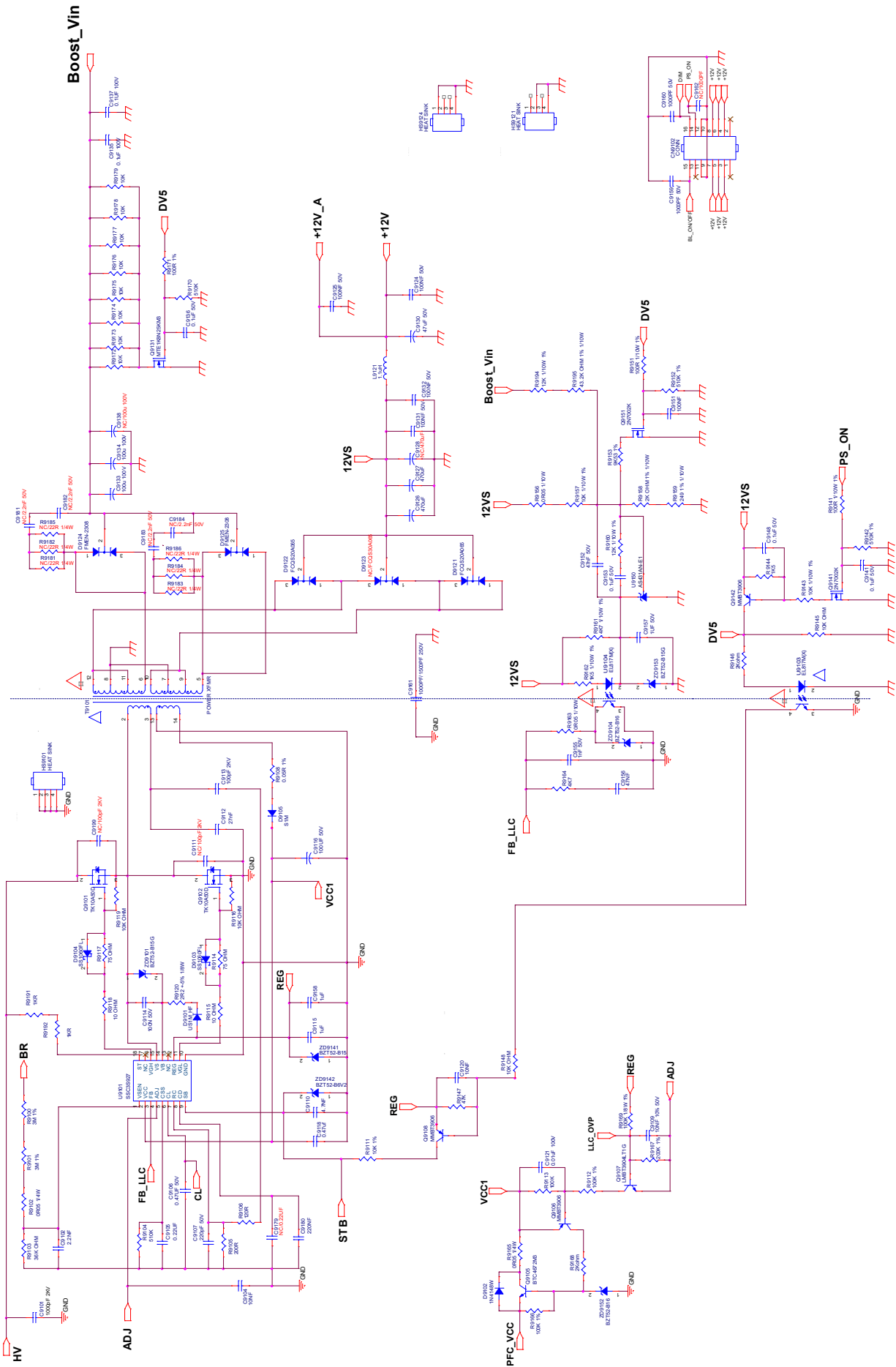
9-1-4 LED



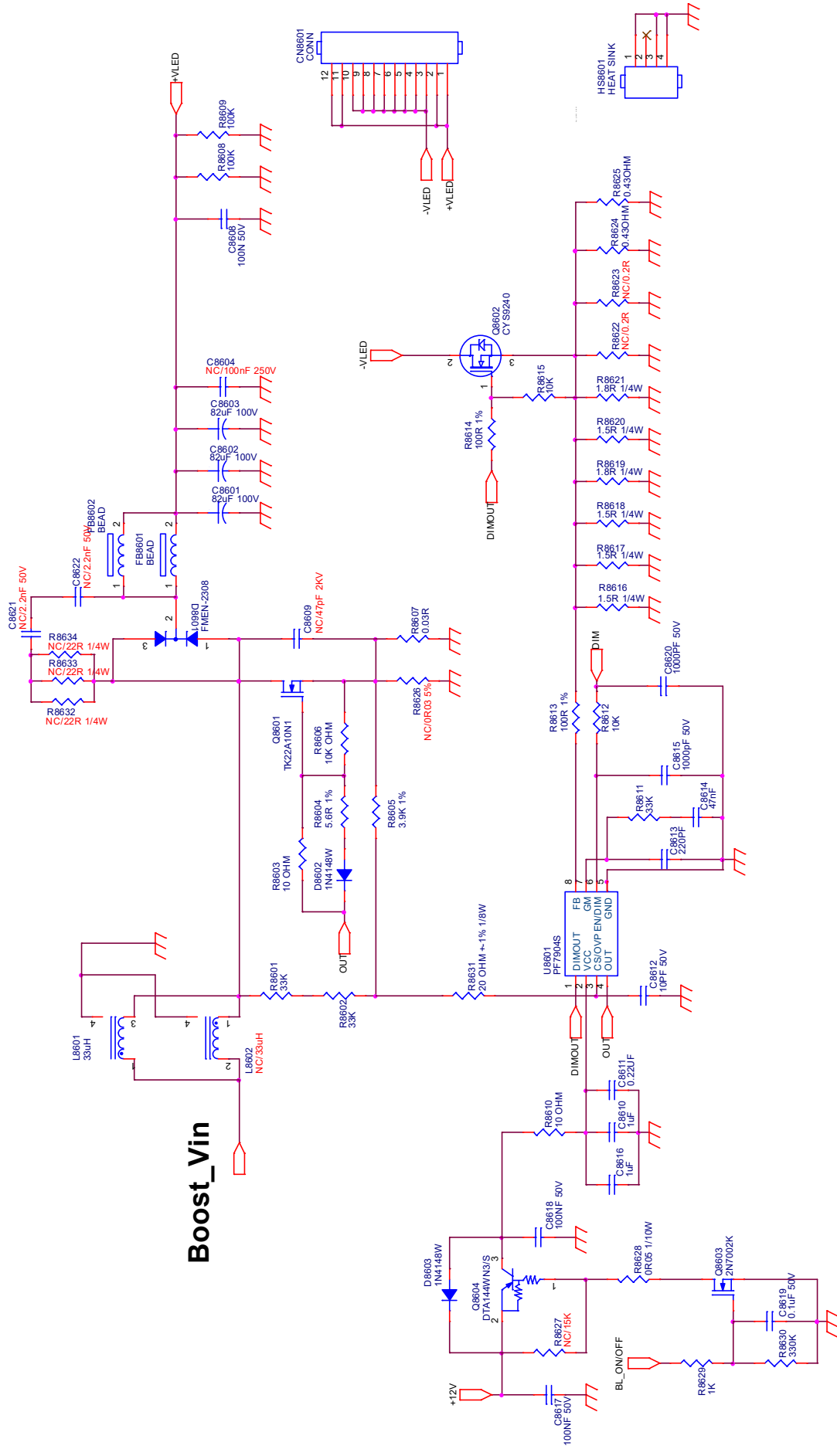
9-2-2 PFC with LD7592S



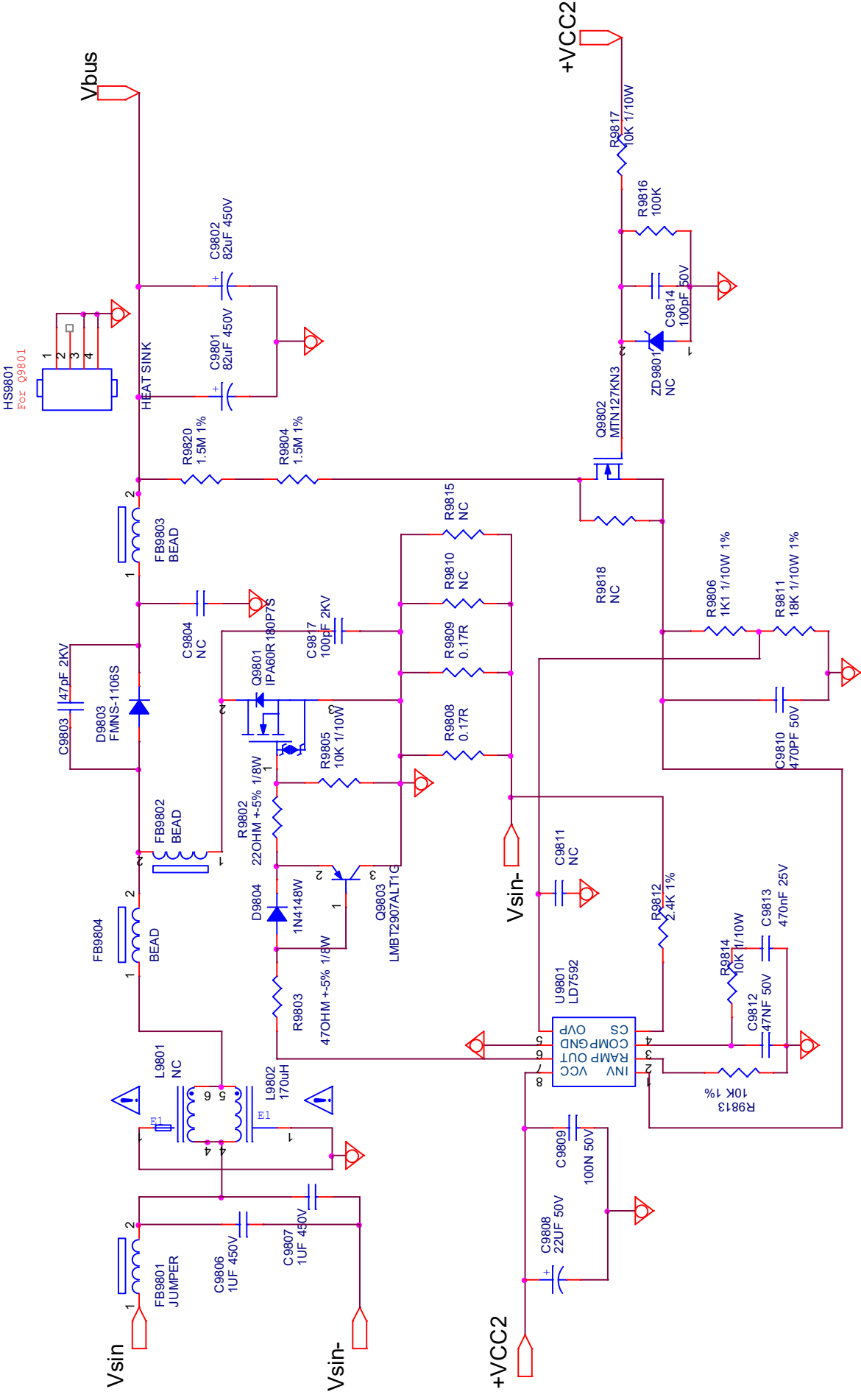
9-2-3 LLC with SSC3S927



Boost_Vin

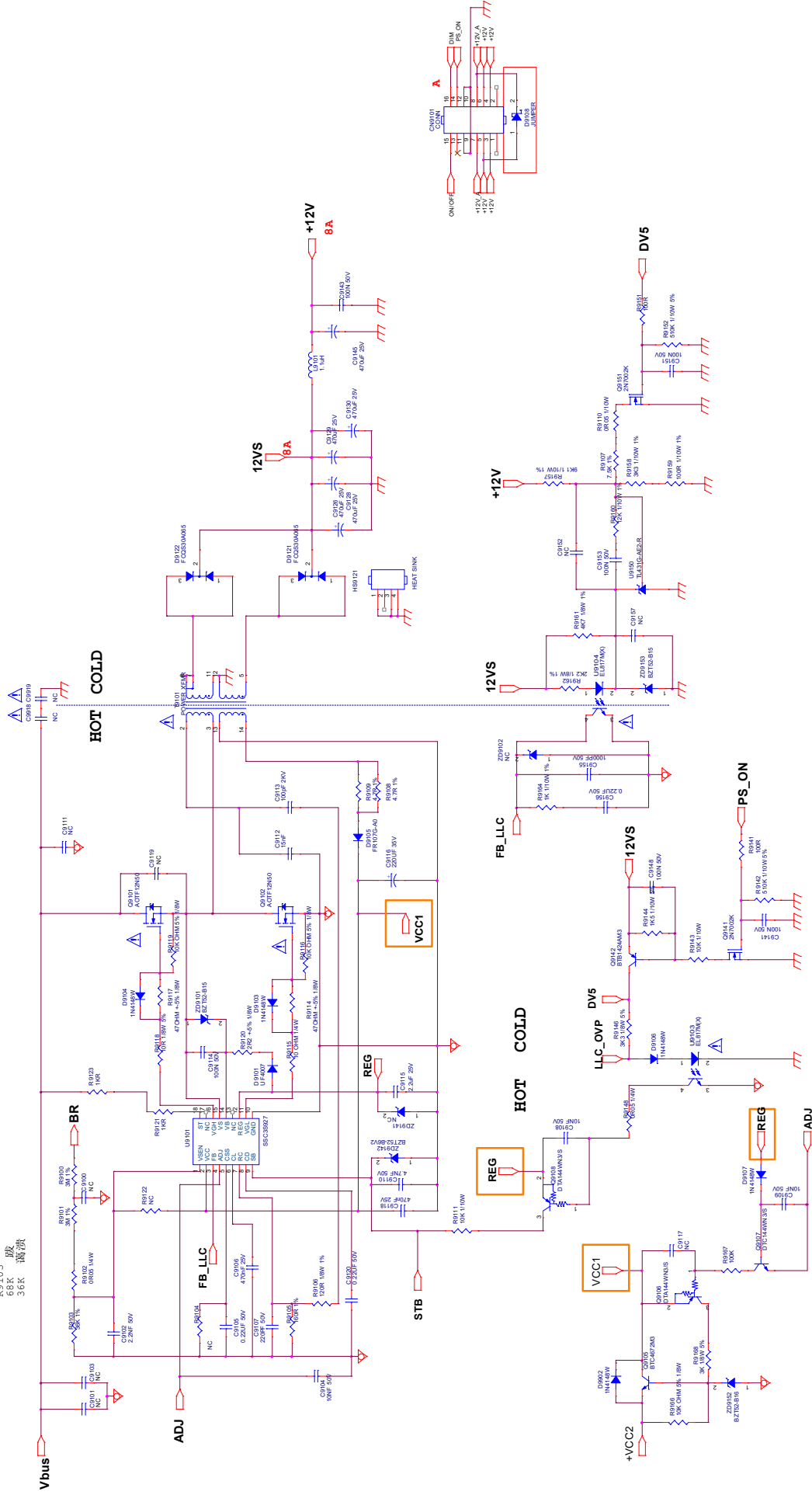


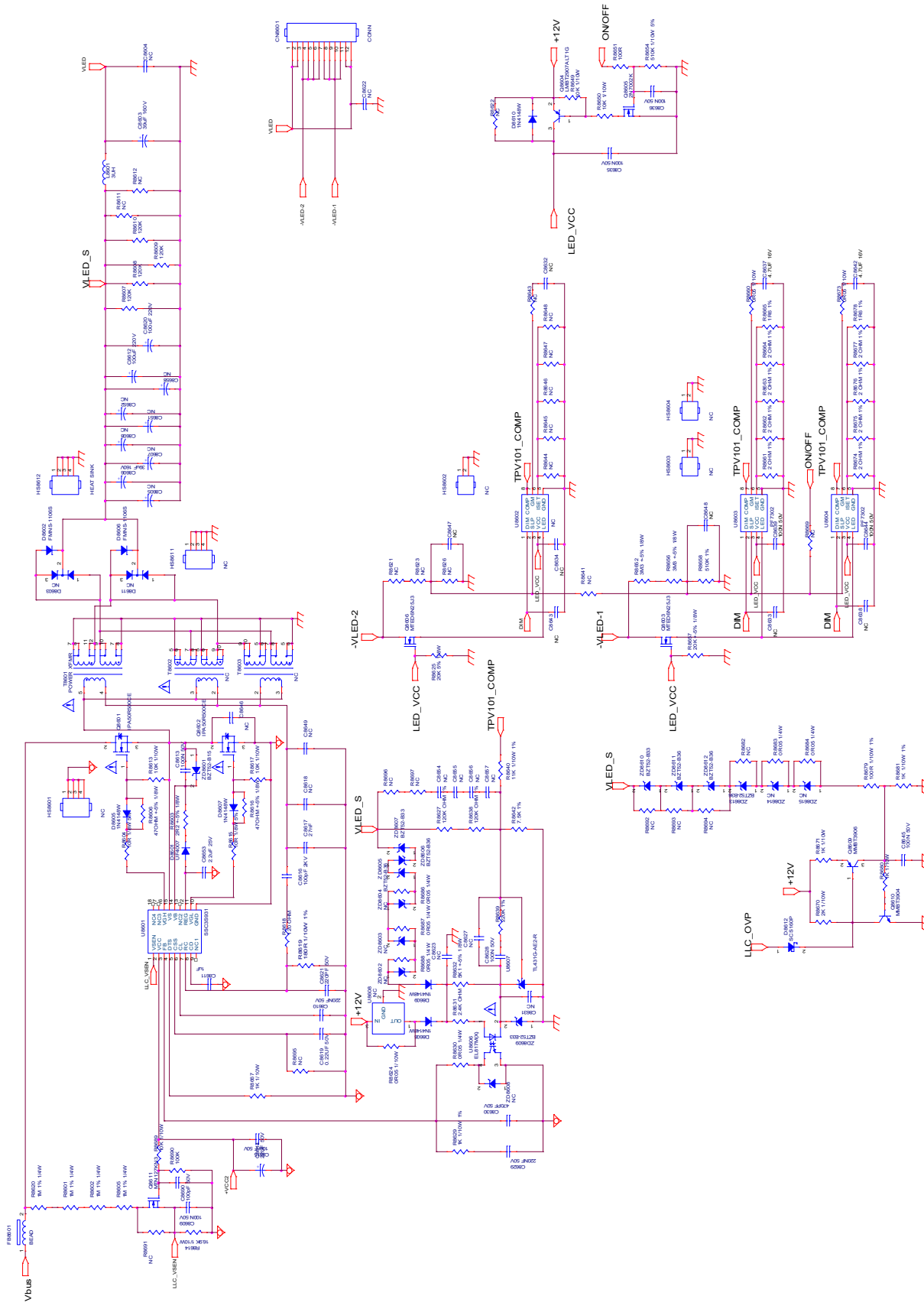
9-3-2 PFC with LD7592



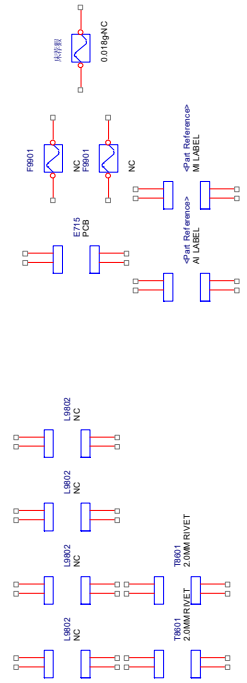
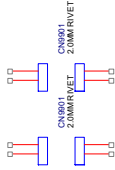
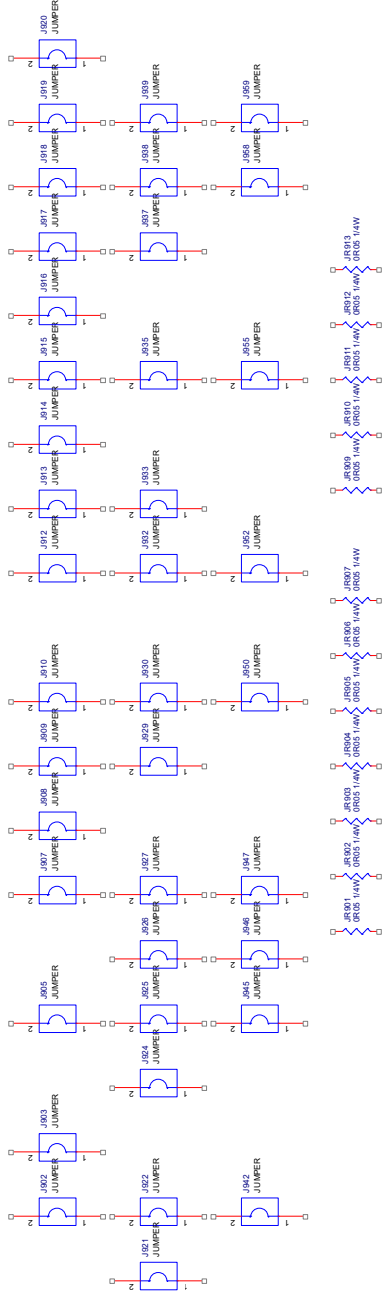
9-3-3 LLC with SSC3S927

R9103 68K 36K 误差





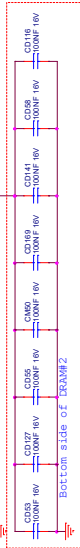
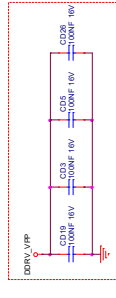
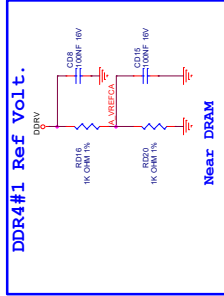
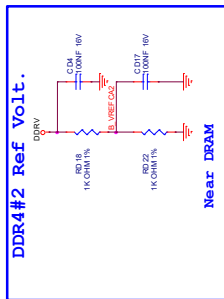
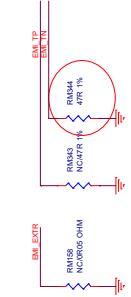
9-3-5 JUMPER



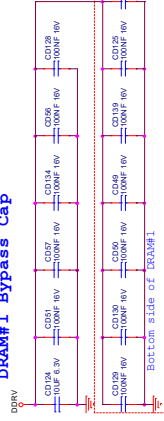
9-4-1 SOC-EMMC



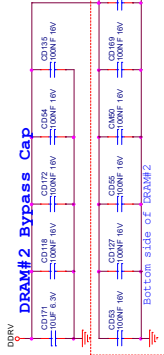
DDR4#1



DRAM#1 Bypass Cap



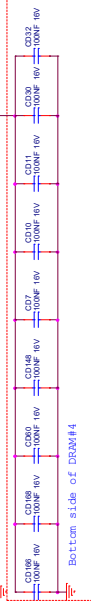
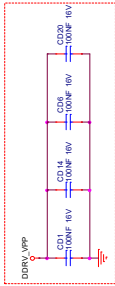
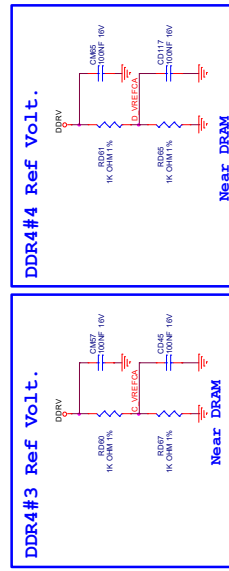
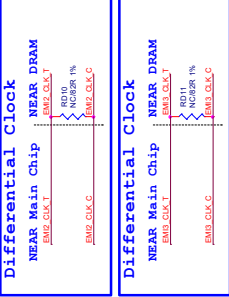
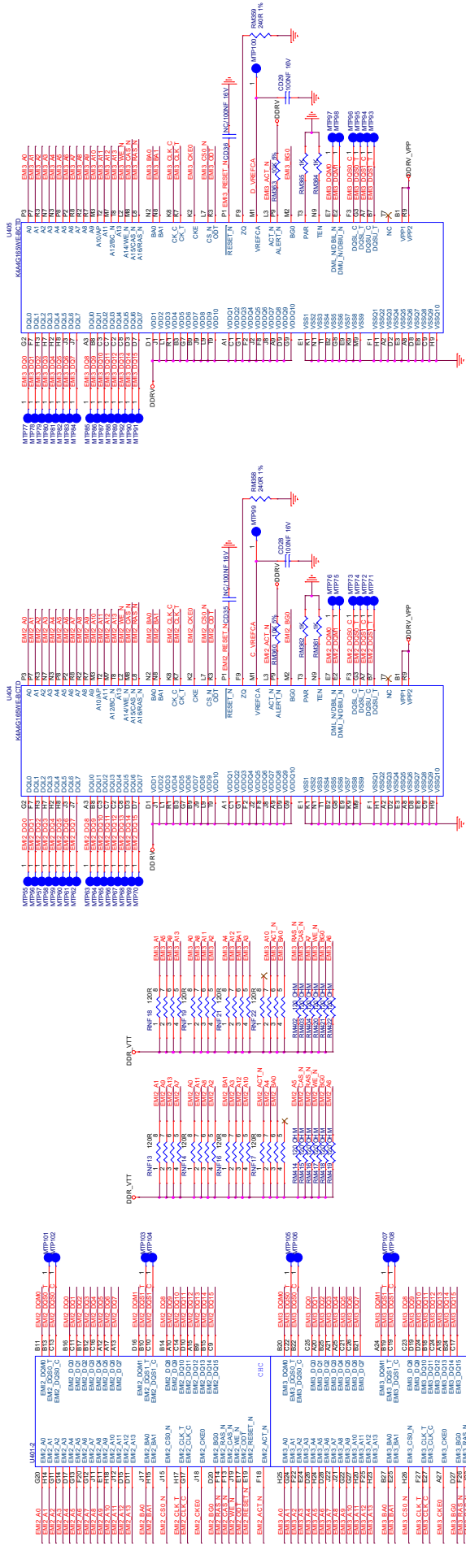
DRAM#2 Bypass Cap



9-4-3 SOC-DDR4-3-4

DDR4#3

DDR4#4



[illegible]

DDR VTT

Close to DRAM VTT R

CM109 100NF 16V

CM110 100NF 16V

CM111 100NF 16V

CM112 100NF 16V

CM113 100NF 16V

CM114 100NF 16V

CM115 100NF 16V

CM116 100NF 16V

CM125 100NF 16V

CM126 100NF 16V

CM127 100NF 16V

CM128 100NF 16V

CM117 100NF 16V

CM118 100NF 16V

CM119 100NF 16V

CM120 100NF 16V

CM121 100NF 16V

CM122 100NF 16V

CM123 100NF 16V

CM124 100NF 16V

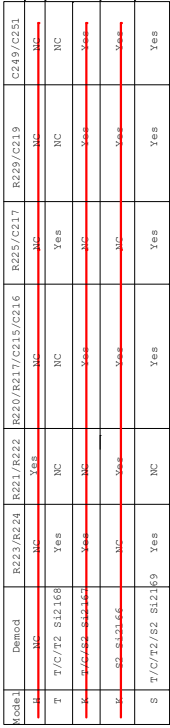
CM129 100NF 16V

CM130 100NF 16V

CM131 100NF 16V

CM132 100NF 16V

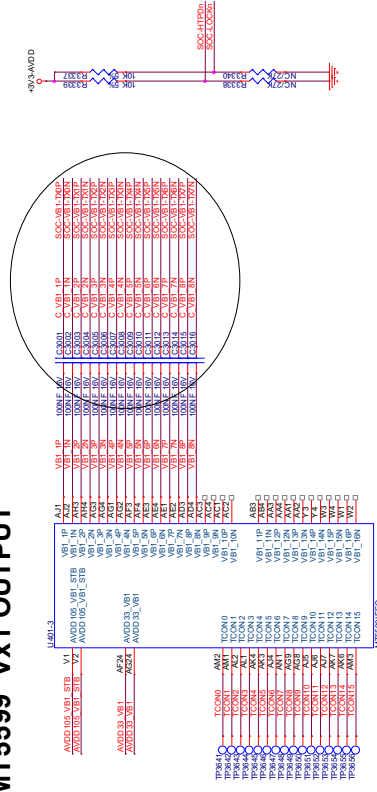
TUNER



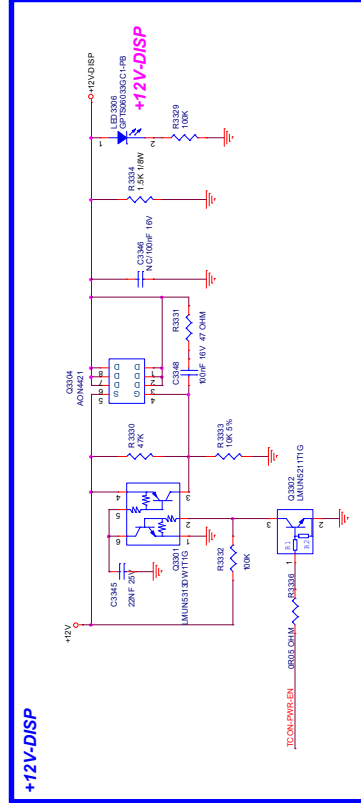
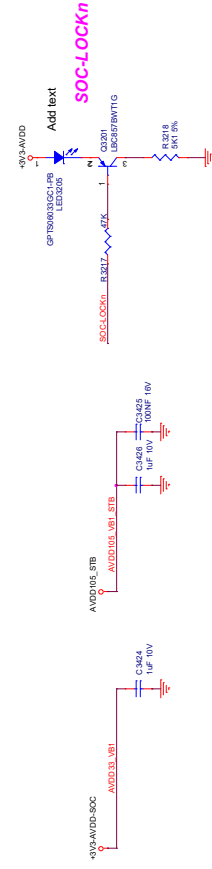
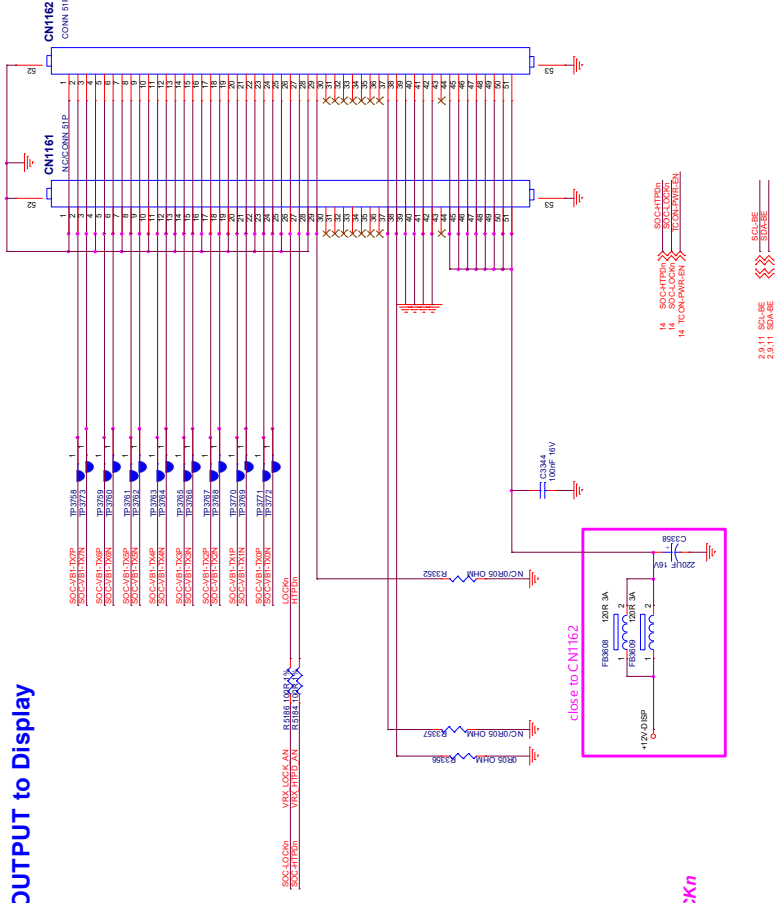
DVB-T/T2 Demodulator

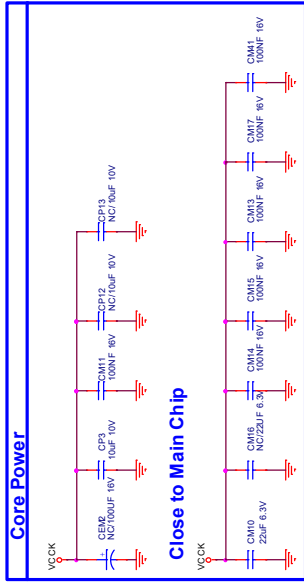
MT5599 Vx1 OUTPUT

Updated on 2018/3/30

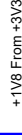


V-BY-1 OUTPUT to Display



[illegible]

DC POWER INPUT



[illegible]

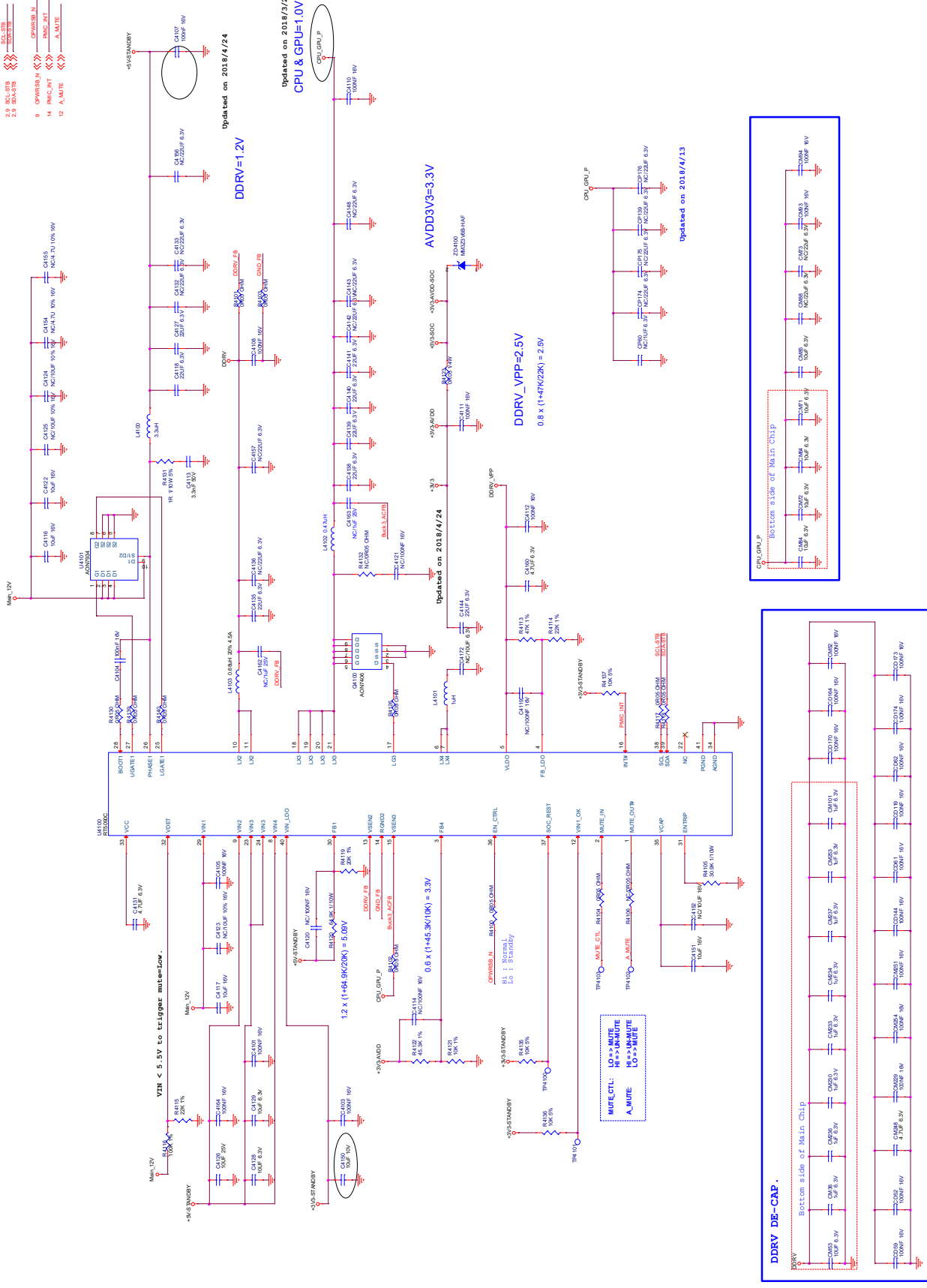
AMBILIGHT PROTECTION

	2 Sided ambilight:	314 Sided ambilight: 04404
F8402	X	NA
C4357	X	X X X X X X X X
R4430	X	NA
S4018	NA	NA
C4356	NA	NA
C4354	NA	NA
R4429	NA	NA

LNB POWER SUPPLY

The schematic diagram illustrates a 10W Class D amplifier circuit. The input stage features a 45VDC source connected to a network of resistors (R776, R777, R778) and capacitors (C779, C780). This network feeds into a 1N4148 diode (D781) and a 10K 5% resistor (R782). The signal path continues through a 10K 5% resistor (R783), a 10K 5% capacitor (C781), and a 10K 5% resistor (R784) to the IN pin of the LM324D op-amp. The op-amp's non-inverting input (+) is biased via a voltage divider consisting of two 10K 5% resistors (R785, R786) connected to a 13V/18V supply. The output of the op-amp (OUT) is connected to a 10K 5% resistor (R787) and a 10K 5% capacitor (C782), which then drives the TDA2050A power amplifier (U1). The TDA2050A's ground (GND) is connected to a common ground point. Its VCC pin is supplied by a 13V/18V source through a 10K 5% resistor (R788). The output of the TDA2050A (O/P) is connected to a 10K 5% resistor (R789) and a 10K 5% capacitor (C783), which then drives the final output stage. The output stage consists of a 10K 5% resistor (R790) and a 10K 5% capacitor (C784) connected to the O/P pin of the TDA2050A. The output signal is taken from the O/P pin of the TDA2050A and fed back to the IN pin of the LM324D op-amp. The output also passes through a 10K 5% resistor (R791) and a 10K 5% capacitor (C785) before being connected to the O/P pin of the TDA2050A. The output signal is finally delivered to the speaker (SPKR) through a 10K 5% resistor (R792) and a 10K 5% capacitor (C786).

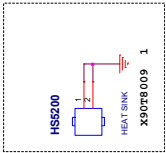
2.9	SCL-STB	OPWRB_N	OPWRB_N
2.9	SDA-STB	PMIC_INT	PMIC_INT
		A_MUTE	A_MUTE



The schematic diagram illustrates a Hi-Fi amplifier circuit. At the center is the U9580 integrated circuit, which is connected to various input and output stages. The circuit includes a MUTE circuit (top right) for muting the signal, a HEADPHONE output stage (bottom right), and an SPDIF (S/PDIF) output stage (bottom left). The main signal path is divided into several sections, each with its own set of components and labels. Key components include resistors (R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, 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, R205, R206, R207, R208, R209, R210, R211, 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, R248, R249, R250, R251, R252, R253, R254, R255, R256, R257, R258, R259, R260, R261, R262, R263, R264, R265, R266, R267, R268, R269, R270, R271, R272, R273, R274, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R293, R294, R295, R296, R297, R298, R299, R300, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R8

SPDIF

MUTE CIRCUIT

[illegible]

SPEAKER connection

connector on 1st
CLASS-D schematic

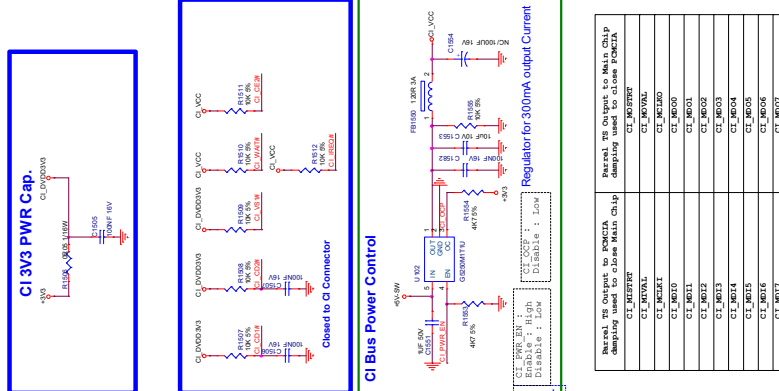
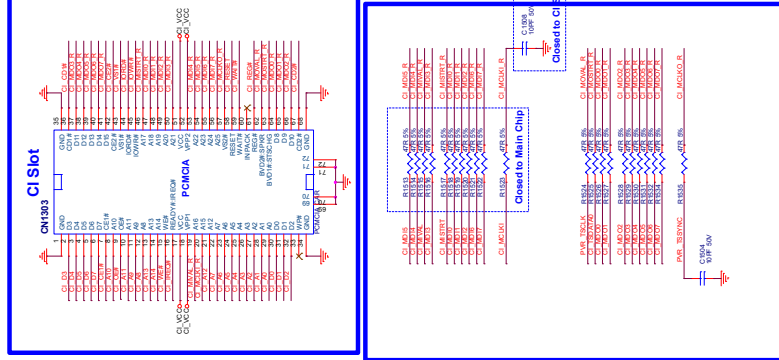
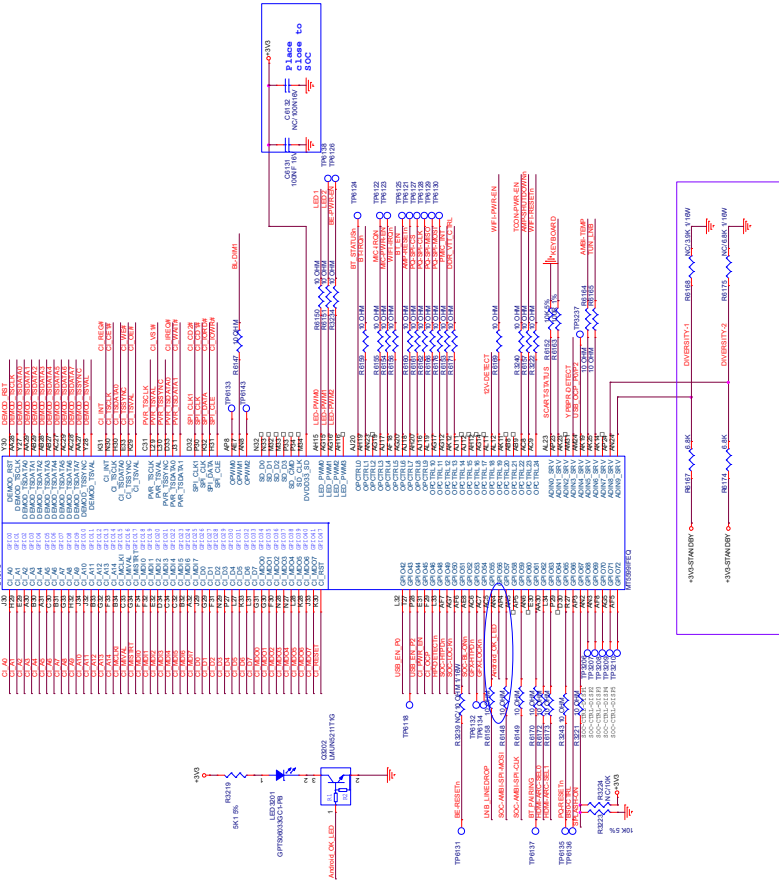
LSPKp

LSPKn

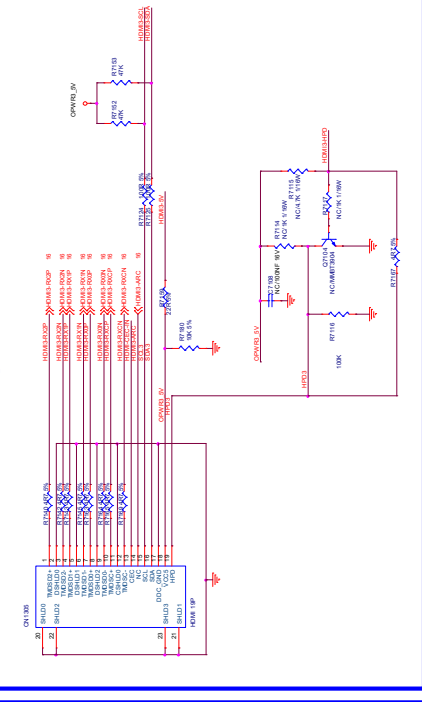
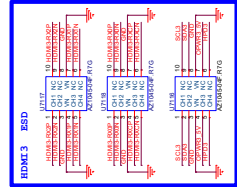
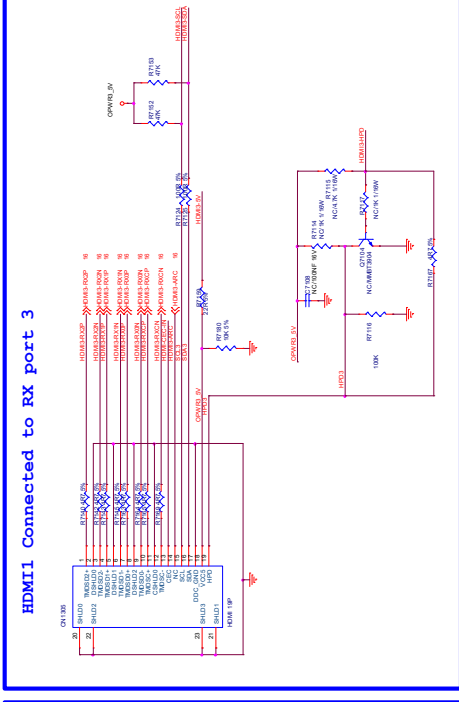
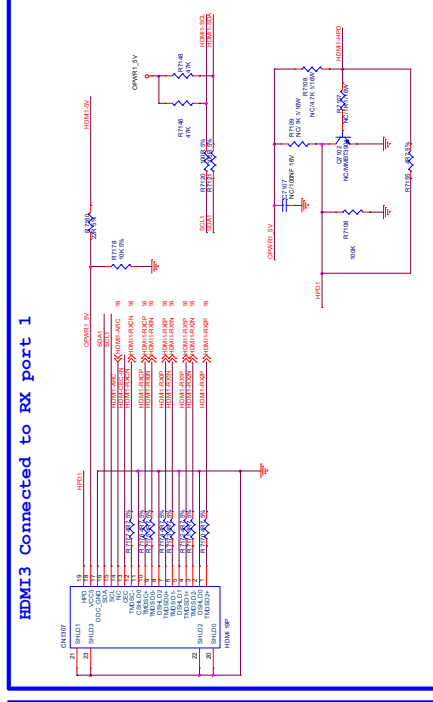
RSPKn

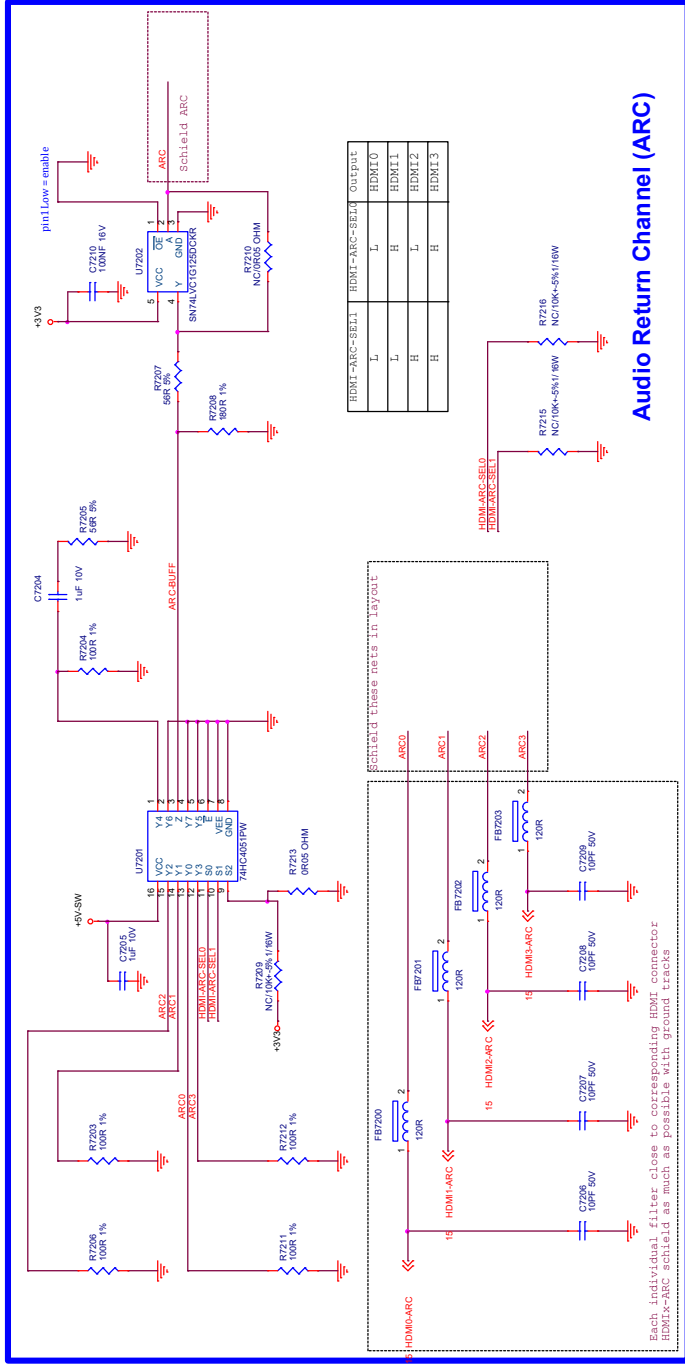
RSPKp

9-4-13 PCMCIA



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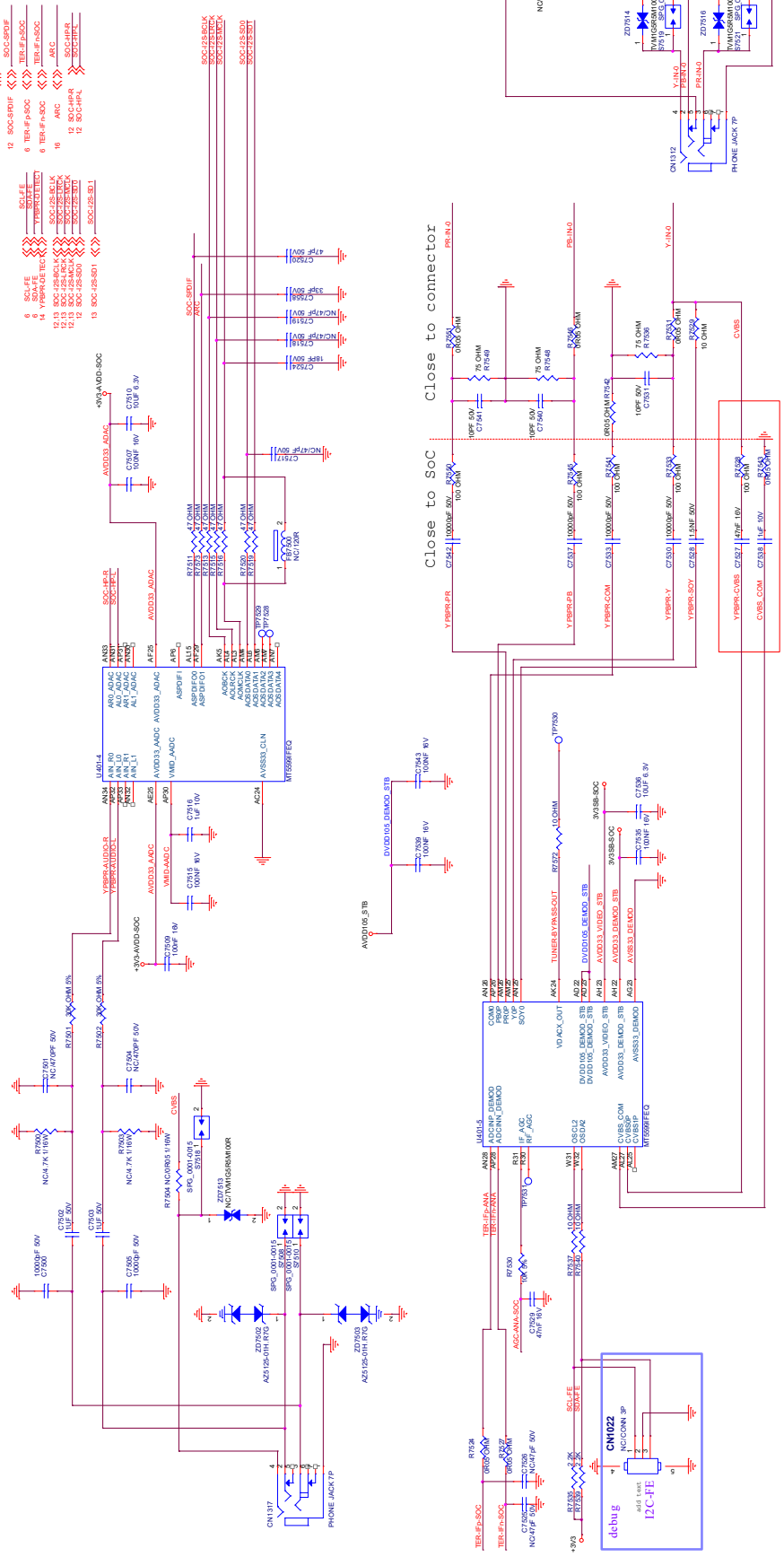
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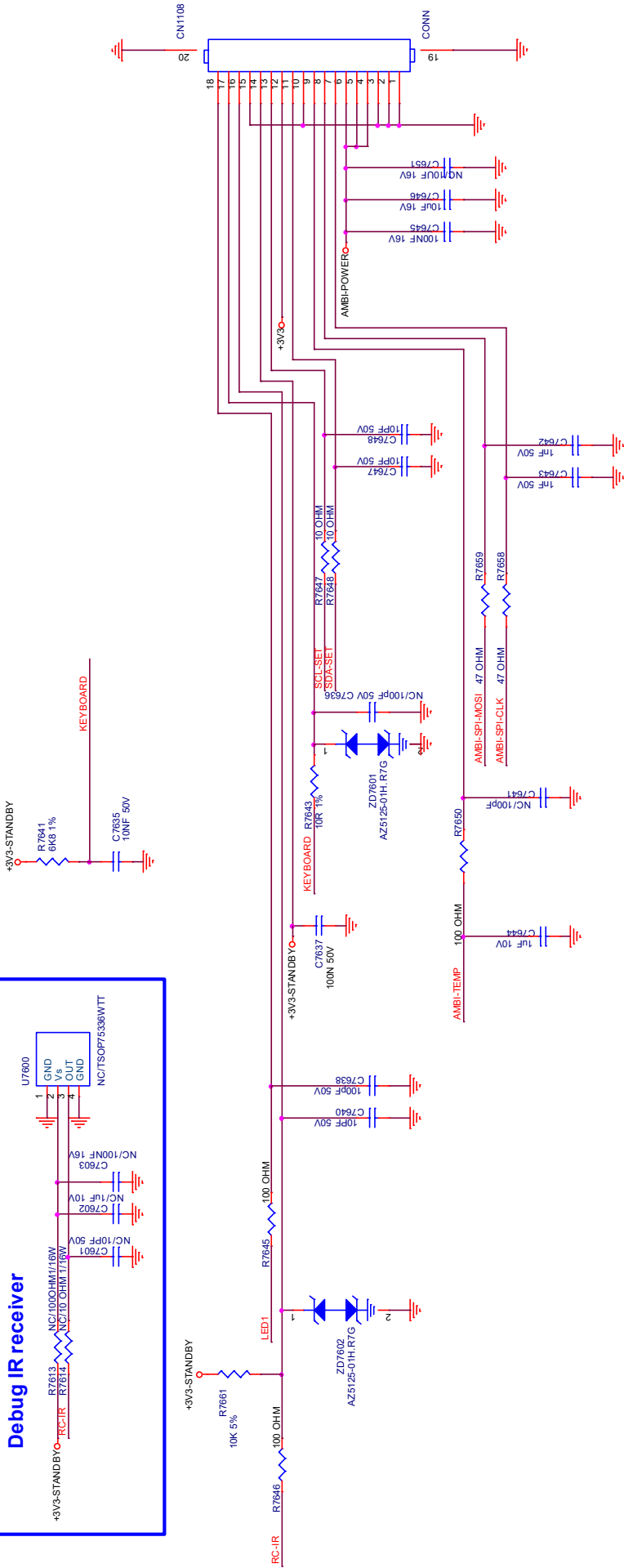
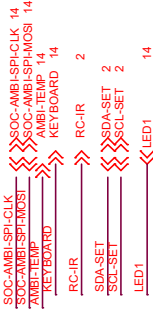
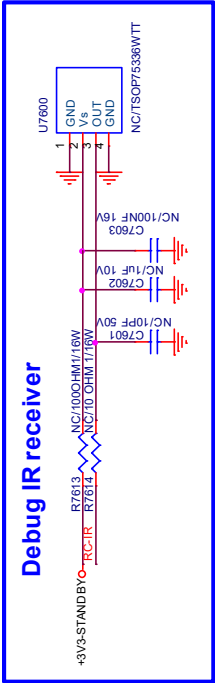
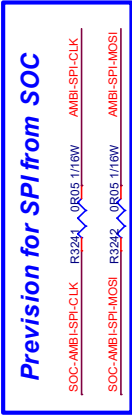
HDMI-ARC-Sel1	HDMI-ARC-Sel0	Output
L	L	HDMI0
L	H	HDMI1
H	L	HDMI2
H	H	HDMI3

Audio Return Channel (ARC)

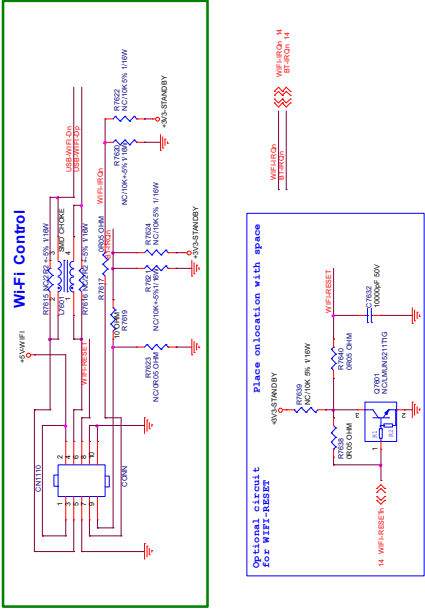
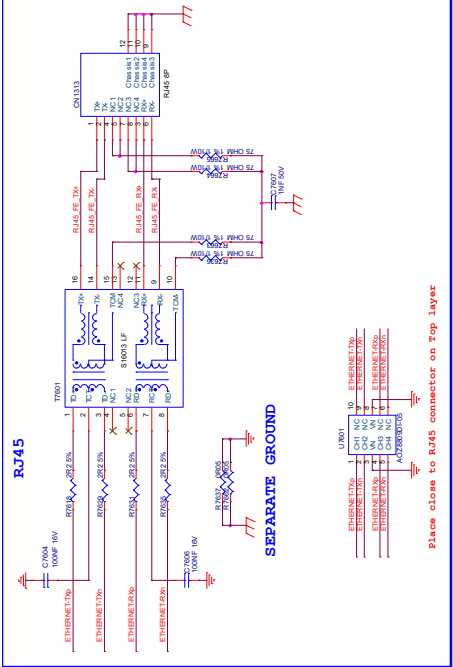
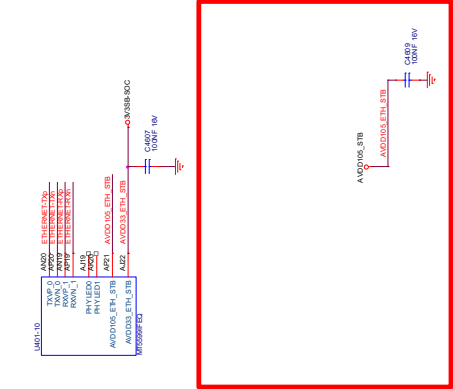
6	AGC-ANA-SOC	<<>>	AGC-ANA-SOC
12	SOC-SPDIF	<<>>	SOC-SPDIF
6	TER-f-p-SOC	<<>>	TER-f-p-SOC
6	TER-f-n-SOC	<<>>	TER-f-n-SOC
16	ARC	<<>>	ARC
12	SOC-HIP-R	<<>>	SOC-HIP-R
12	SOC-HIP-L	<<>>	SOC-HIP-L



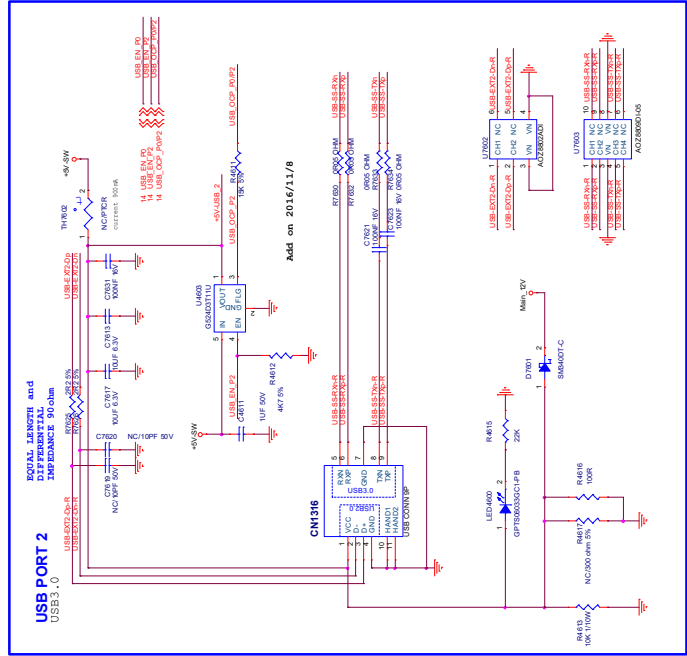
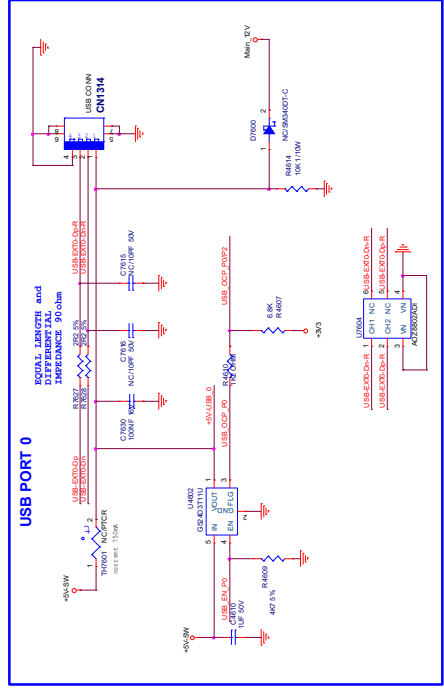
9-4-17 CTRL-CONNECTORS



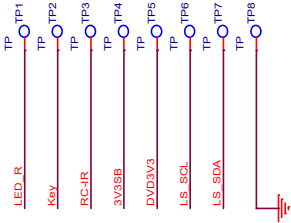
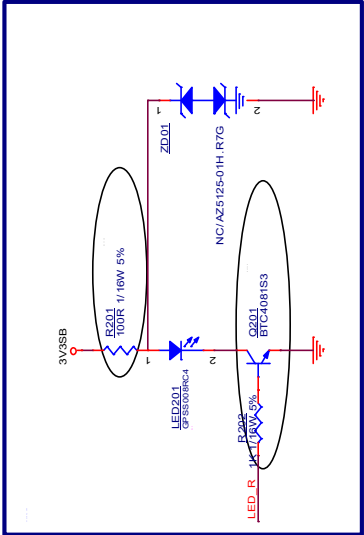
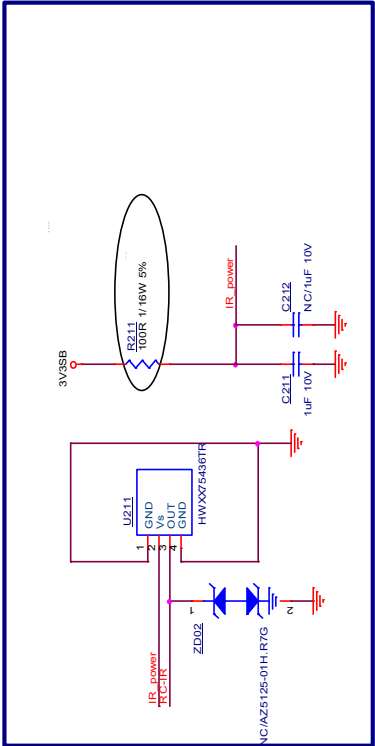
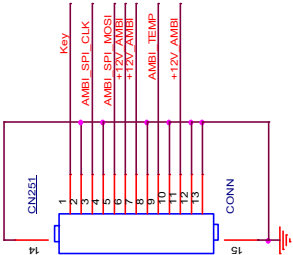
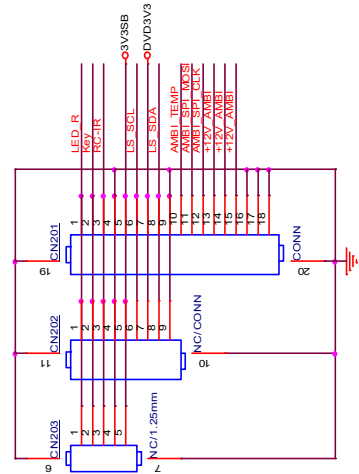
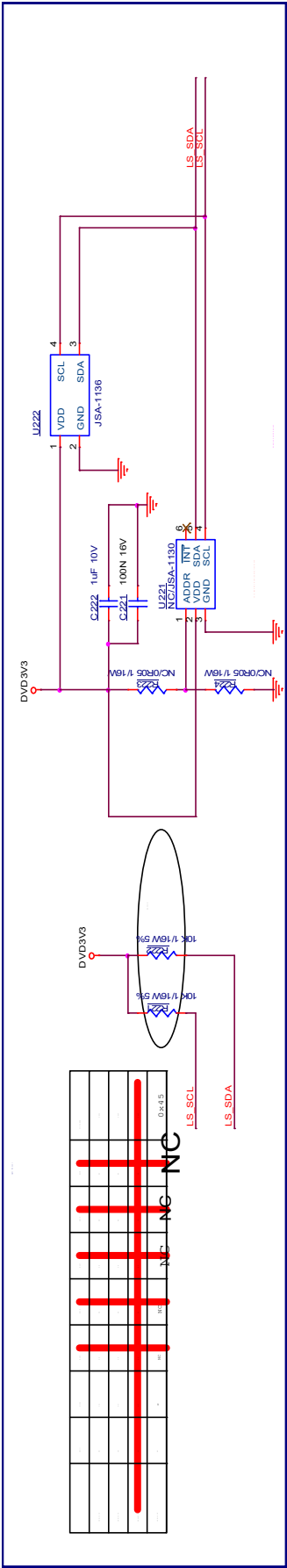
9-4-18 CTRL-ETHERNET-PHY



USB

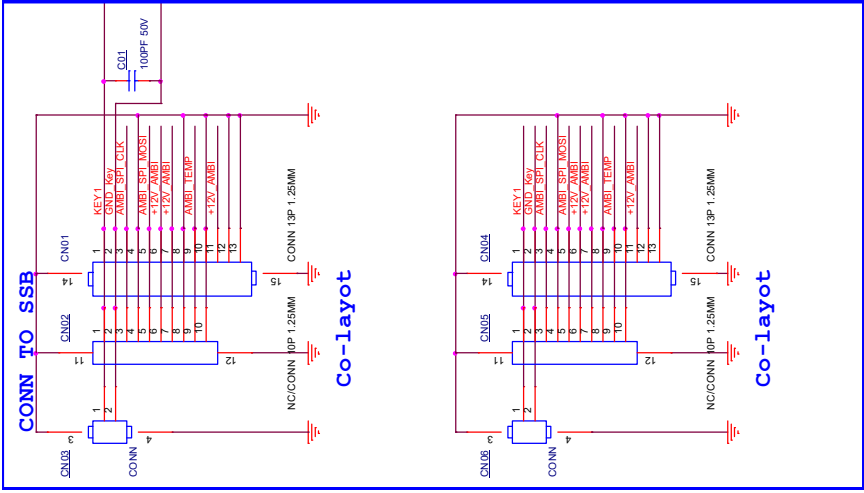


9.5 E 715GA039 IR Board
9-5-1 IR&STB LED&Light sensor

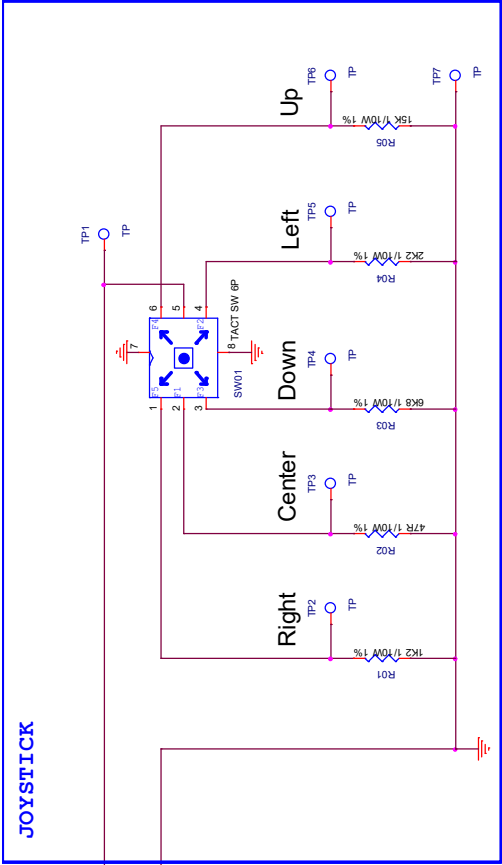


9.6 E 715GA334 Keyboard control panel

9-6-1 Key



Parts location
Top:CN01/CN02/CN03/R01/R02/R03/CN11/CN12
Bottom:CN04/CN05/CN06/C01/R04/R05/C11/C12



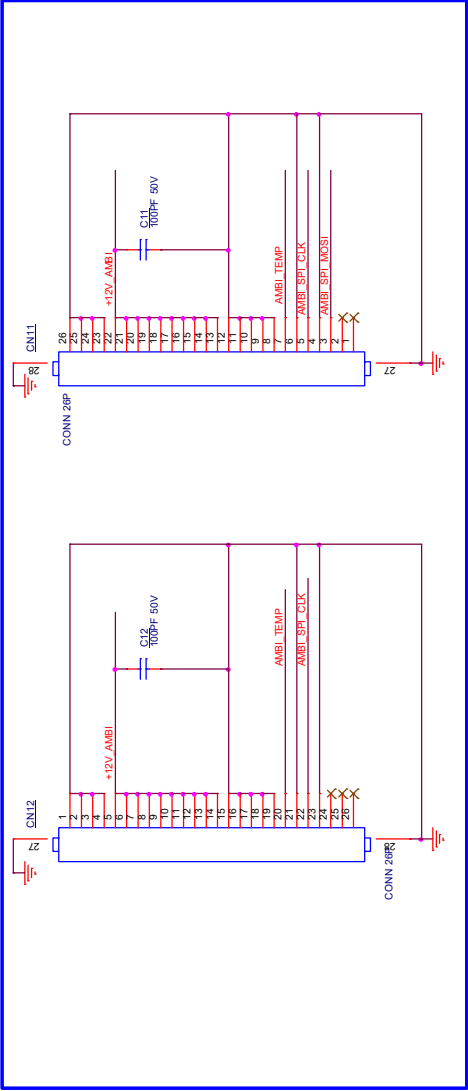
Joystick key define

Direction	switch	Key function	Resistance	Voltage	Range
Center	2-5 short	Menu	0R	0V	0.0 to 0.22 V
Right	1-5 short	CH+	1K2	0.5V	0.39 to 0.60 V
Left	4-5 short	CH-	2K2	0.81V	0.67 to 0.95 V
Down	3-5 short	VOL-	6K8	1.65V	1.41 to 1.87 V
Up	6-5 short	VOL+	15K	2.27V	1.93 to 2.58 V
NA	NA	No function	NA	3.3V	3.135 to 3.465V

Joystick circuit diagram

pin1	pin2	pin3	pin4	pin5	pin6
F1					
F2					
F3					
F4					
F5					

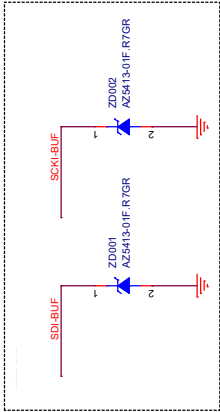
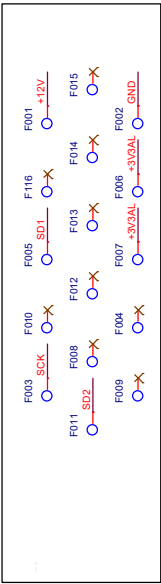
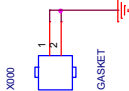
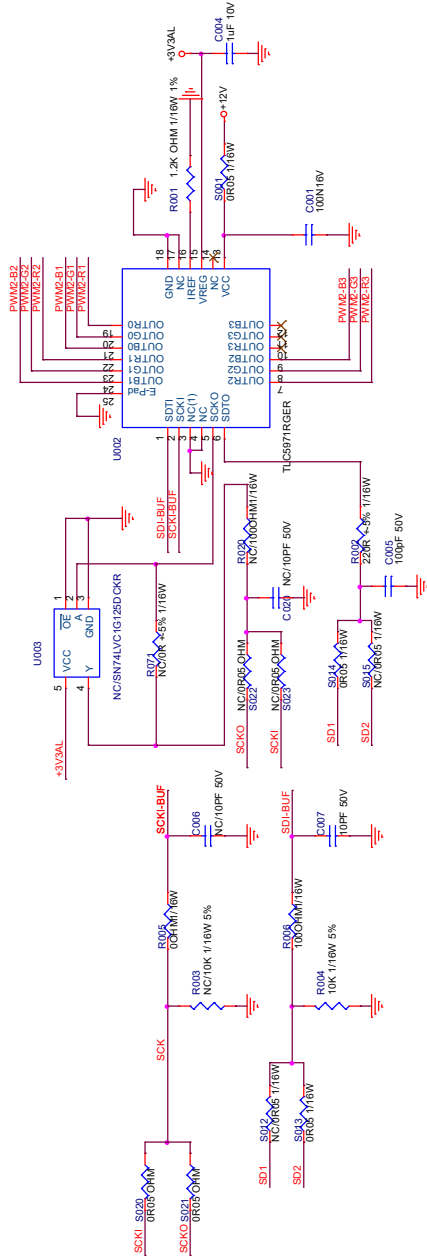
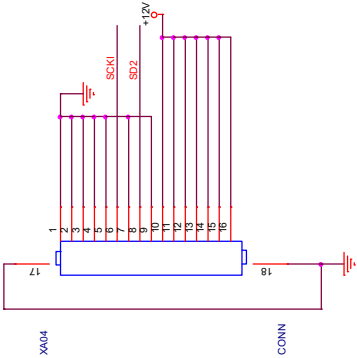
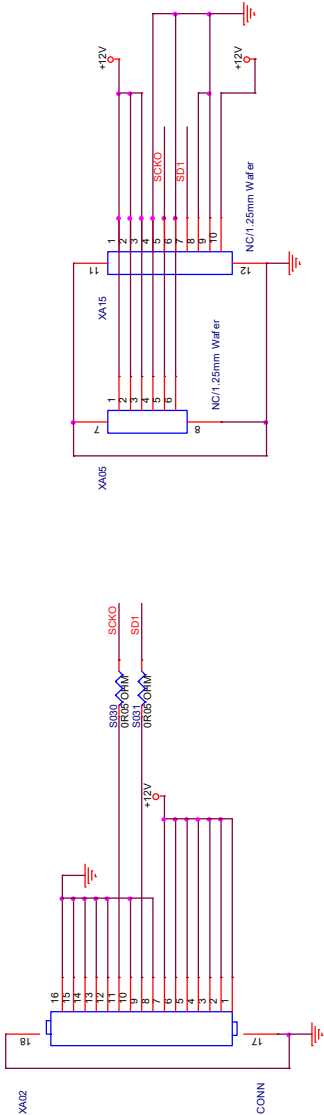
TO AMBI LIGHT



Joystick diversity for AL

CN03	C07	R9	R10
N	N	N	N
Y	Y	Y	Y
AL2			
AL3/AL4			

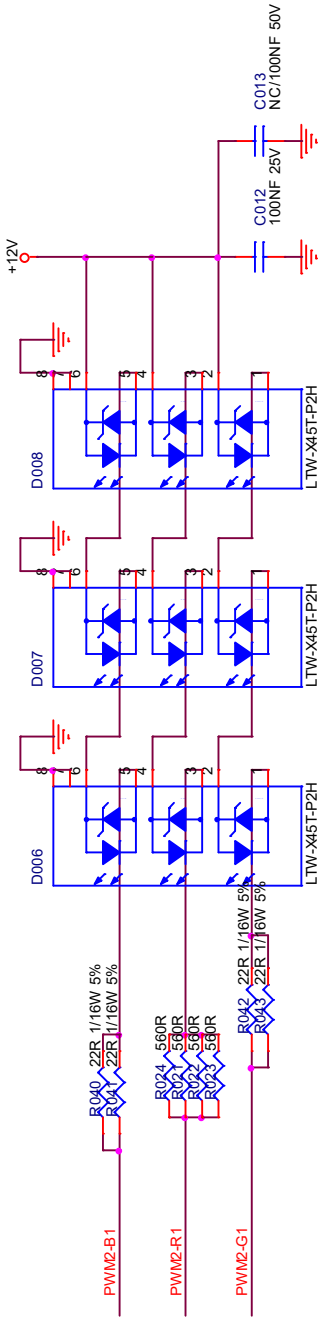
9.7 B 715GB157 AMBI Panel (For 43" 85x5/9xx5 Series)
9-7-1 TLC5971



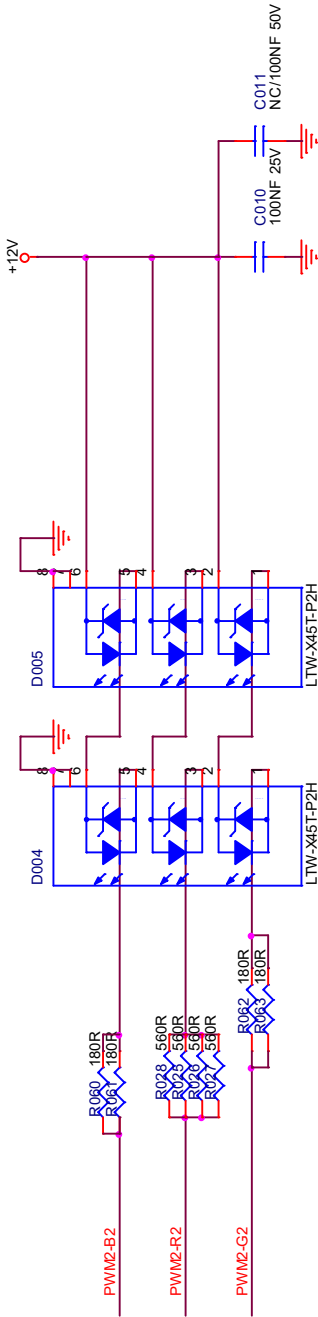
(XA02-IN, XA04-OUT)					
(XA02-OUT, XA04-IN)					



9-7-2 Ambilight 8-LED

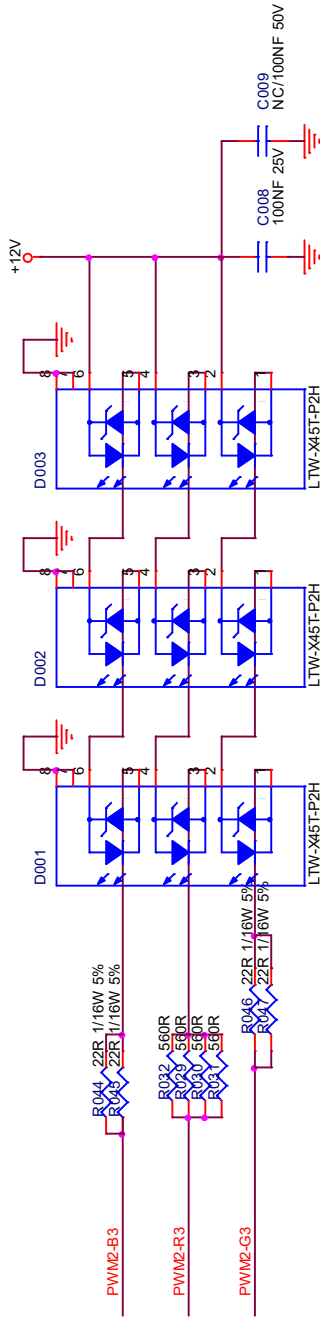


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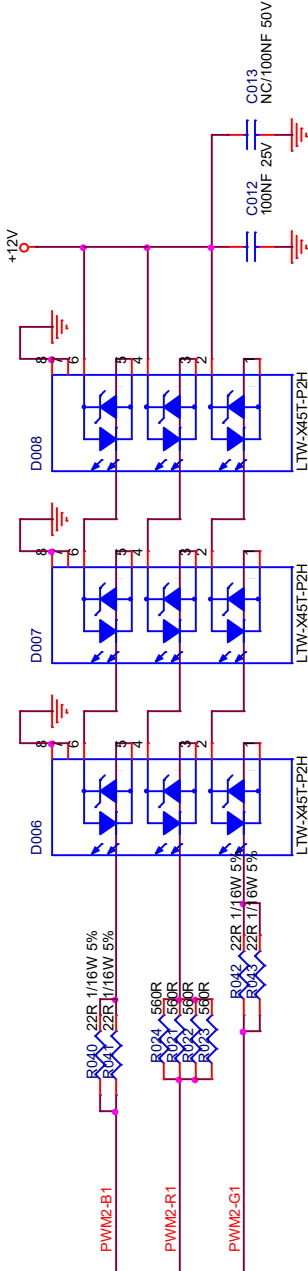
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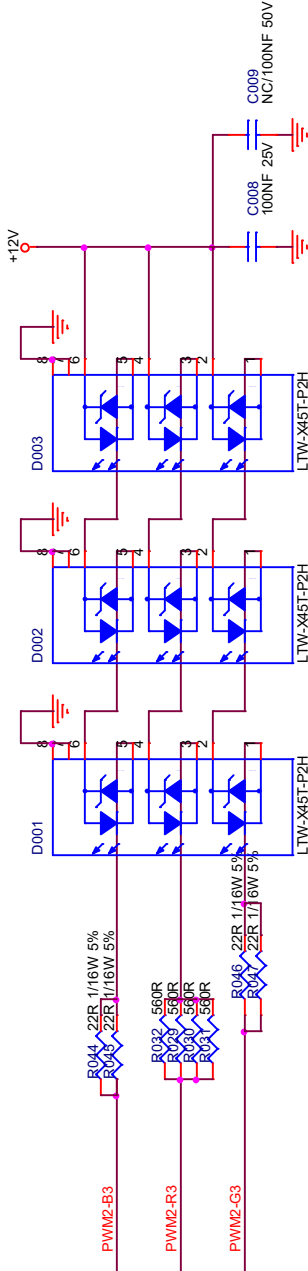
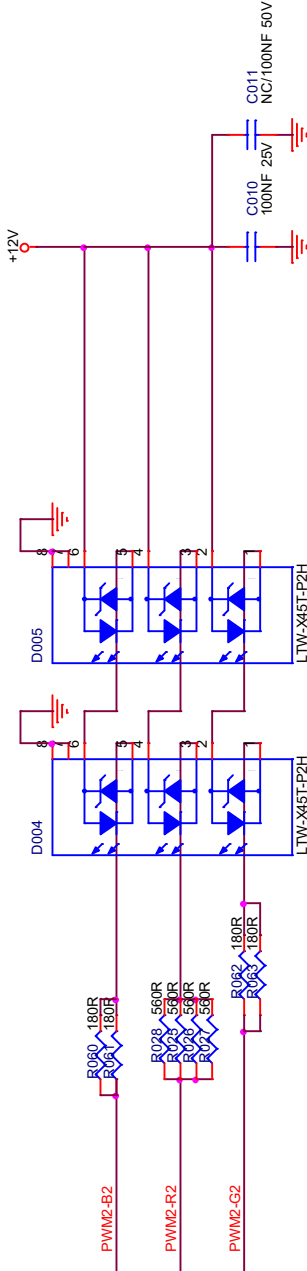
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9.8 715GB158 AMBI Panel (For 43" 85x5/9xx5 Series)

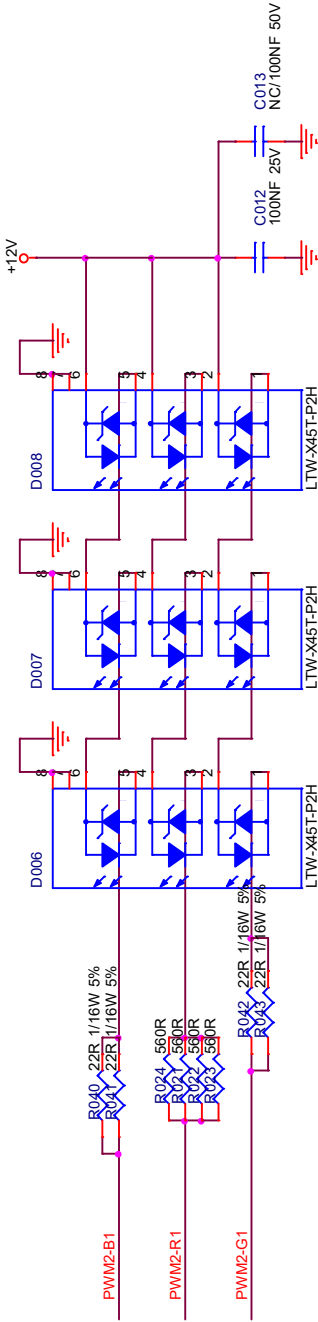
9-8-1 TLC5971



- PWM2-R1
- PWM2-G1
- PWM2-B1
- PWM2-R2
- PWM2-G2
- PWM2-B2
- PWM2-R3
- PWM2-G3
- PWM2-B3

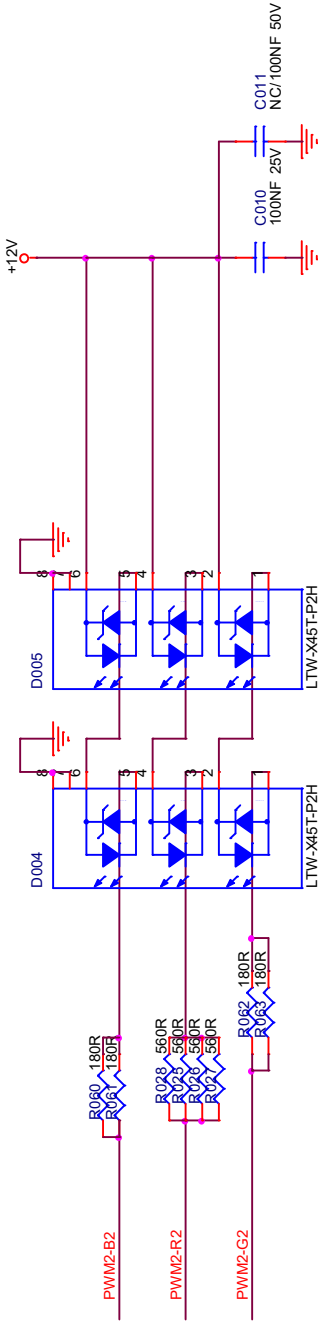


9-8-2 Ambilight 8-LED



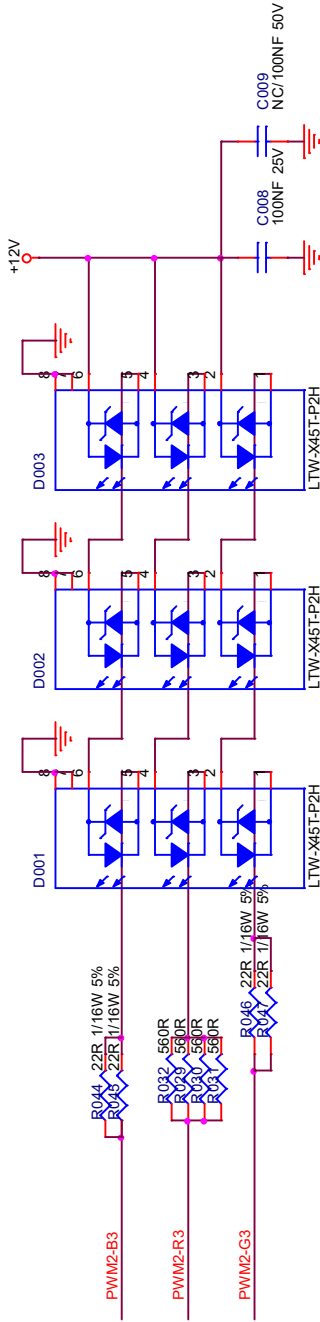
>>>PWM2-R1
>>>PWM2-G1
>>>PWM2-B1

2
2
2



>>>PWM2-R2
>>>PWM2-G2
>>>PWM2-B2

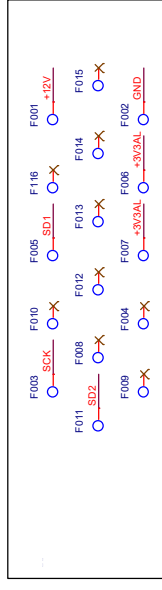
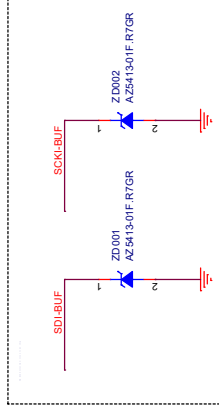
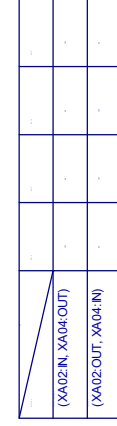
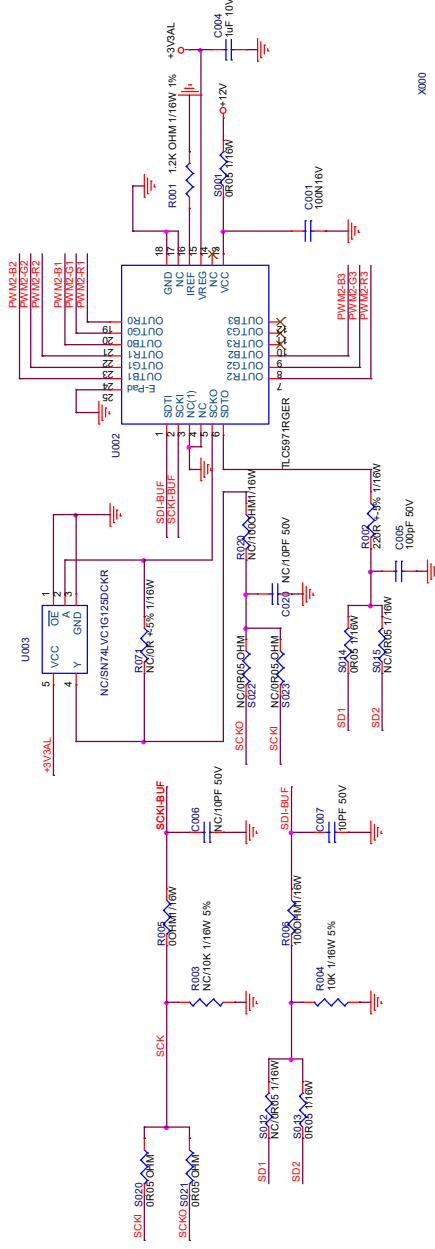
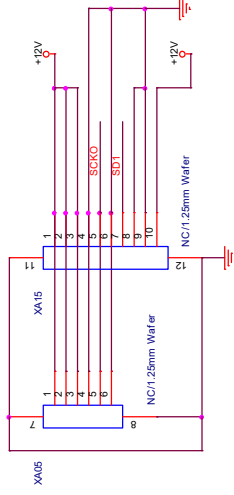
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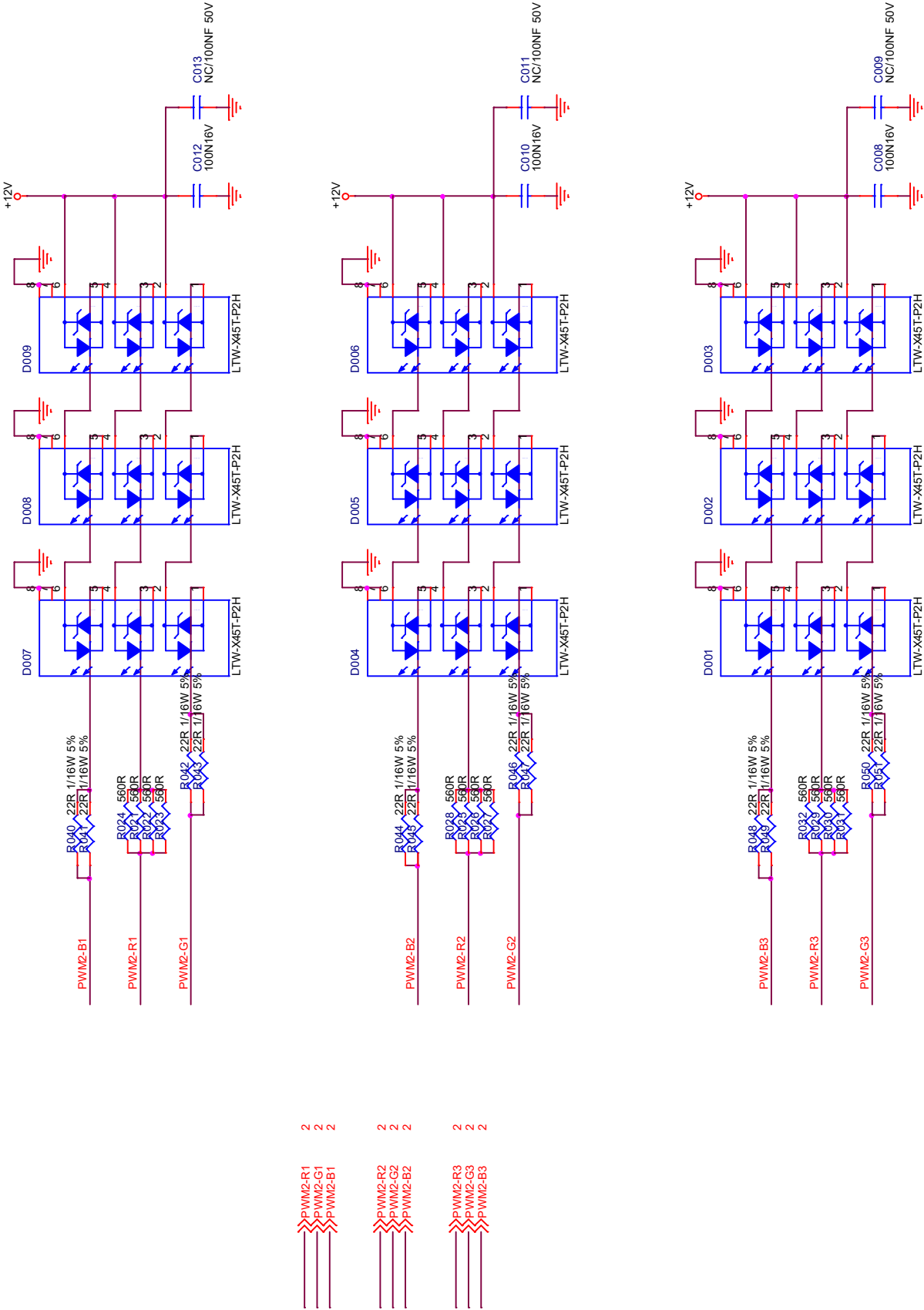
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>>>PWM2-B3

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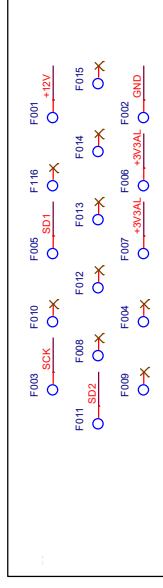
9-9-1 TLC5971

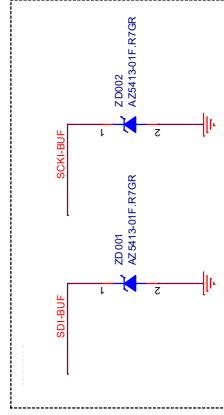
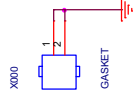
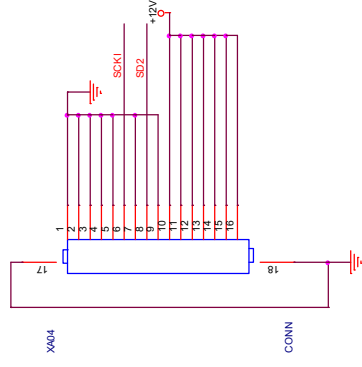


9-9-2 Ambilight 9-LED



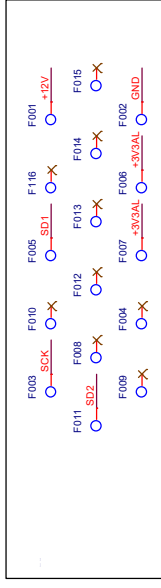
9-10-1 TLC5971



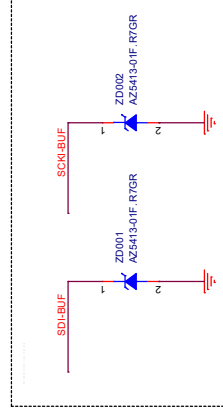
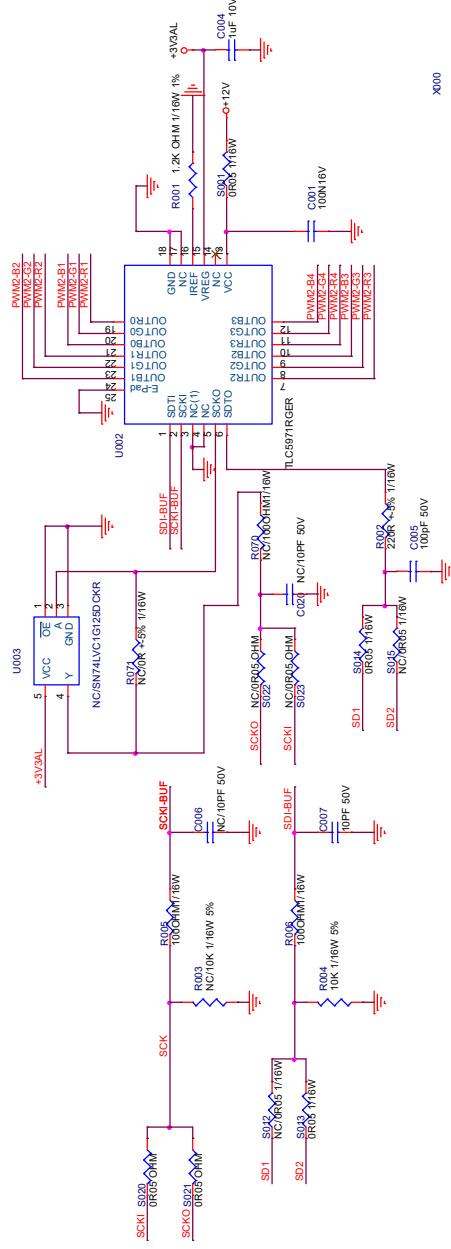
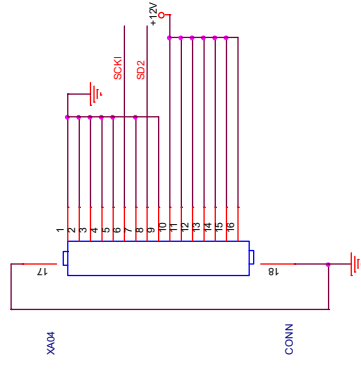


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(XA02-OUT, XA04-IN)						

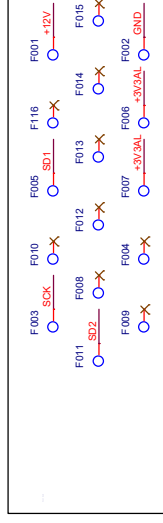
Genotype	Genotype	Genotype
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PWM2-G2	PWM2-G1	PWM2-G3
PWM2-B2	PWM2-B1	PWM2-B3



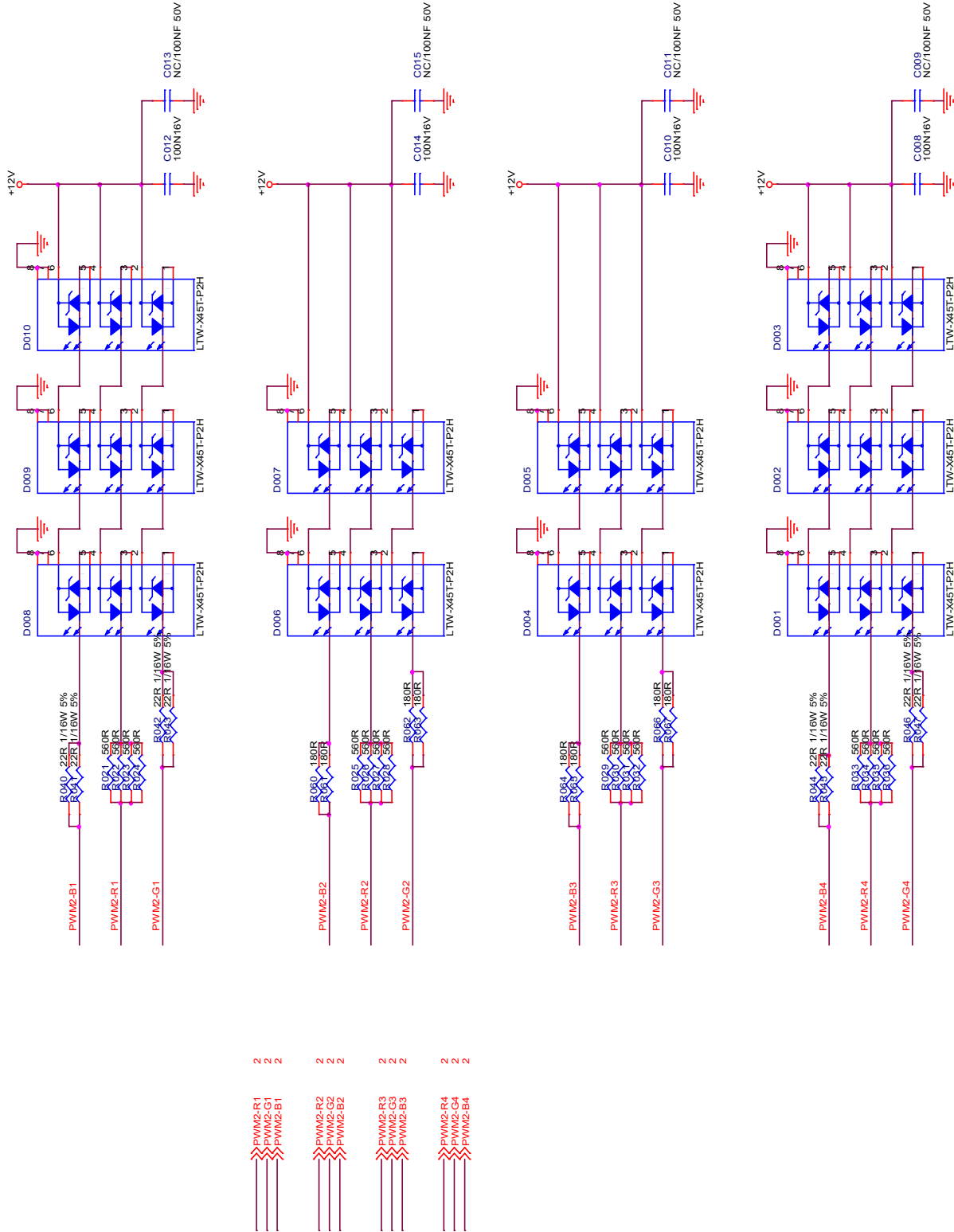
9-11-1 TLC5971



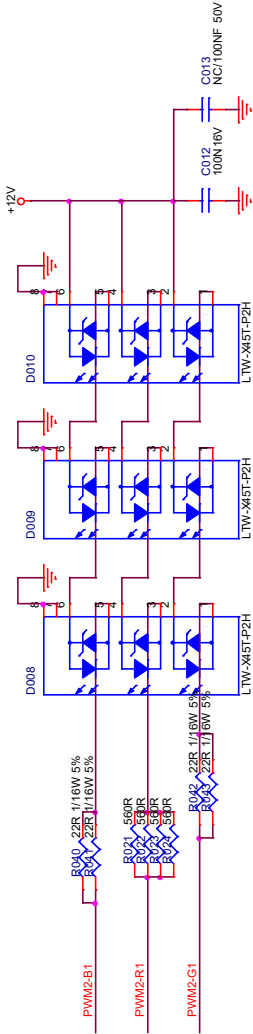
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63	-	-
64	-	-
65	-	-
66	-	-
67	-	-
68	-	-
69	-	-
70	-	-
71	-	-
72	-	-
73	-	-
74	-	-
75	-	-
76	-	-
77	-	-
78	-	-
79	-	-
80	-	-
81	-	-
82	-	-
83	-	-
84	-	-
85	-	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
91	-	-
92	-	-
93	-	-
94	-	-
95	-	-
96	-	-
97	-	-
98	-	-
99	-	-
100	-	-



9-11-2 Ambilight 10-LED



9-12-2 Ambilight 10-LED

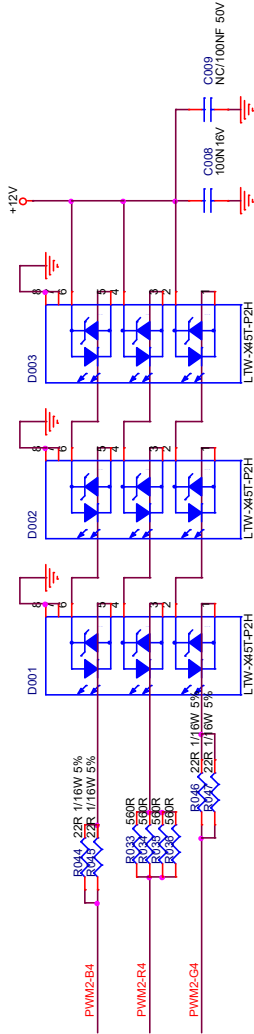
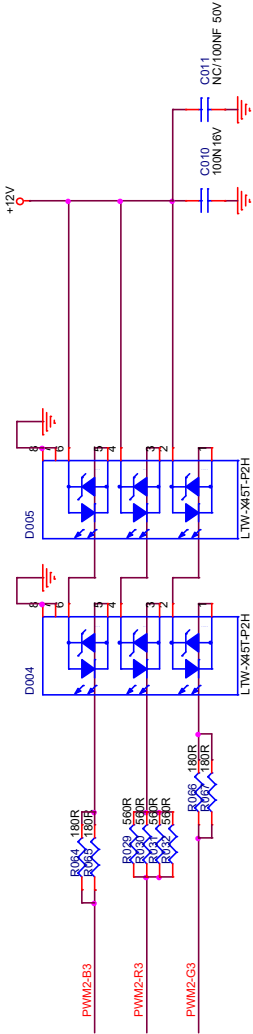
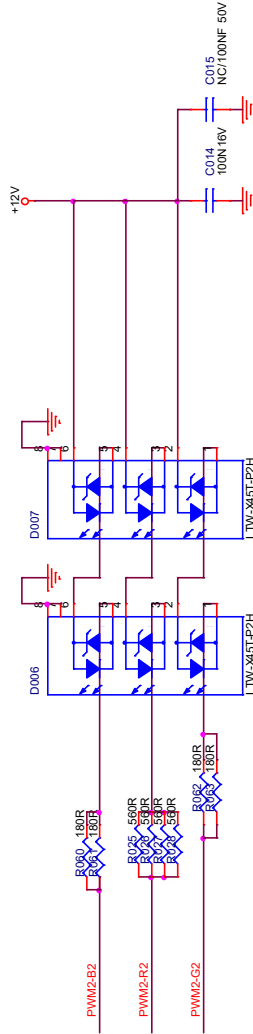


>>>PWM2-R1
>>>PWM2-G1
>>>PWM2-B1

>>>PWM2-R2
>>>PWM2-G2
>>>PWM2-B2

>>>PWM2-R3
>>>PWM2-G3
>>>PWM2-B3

>>>PWM2-R4
>>>PWM2-G4
>>>PWM2-B4



C009
NC/100NF 50V

C010
100N 16V

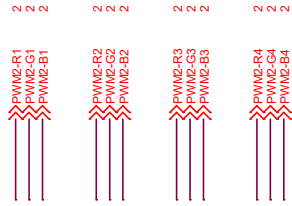
C011
NC/100NF 50V

C012
100N 16V

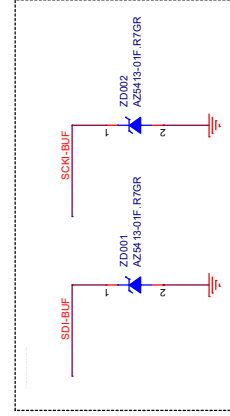
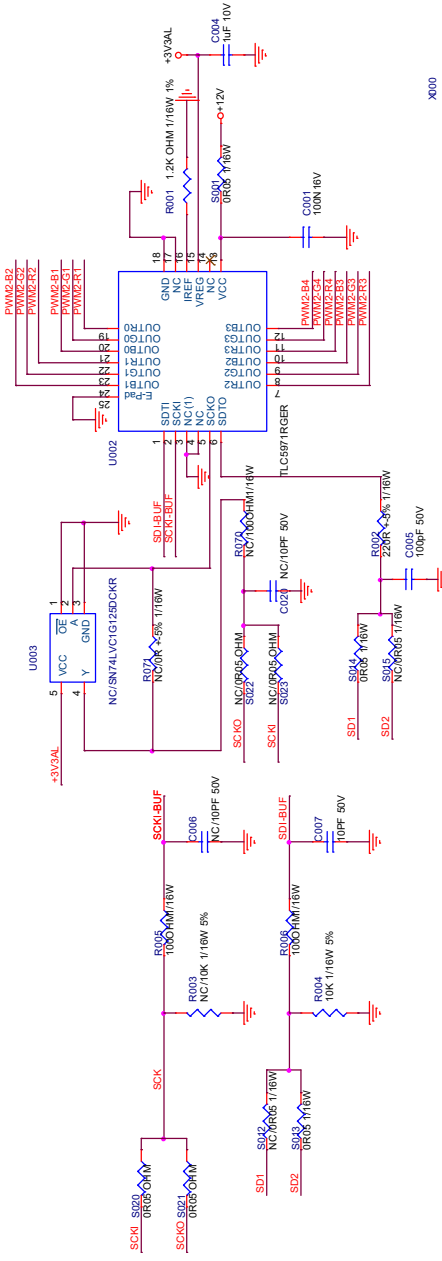
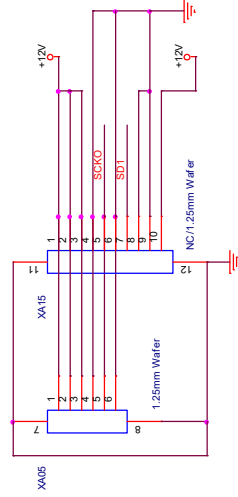
C013
NC/100NF 50V

C014
100N 16V

C015
NC/100NF 50V

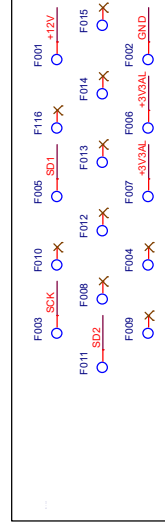


9-14-1 TLC5971

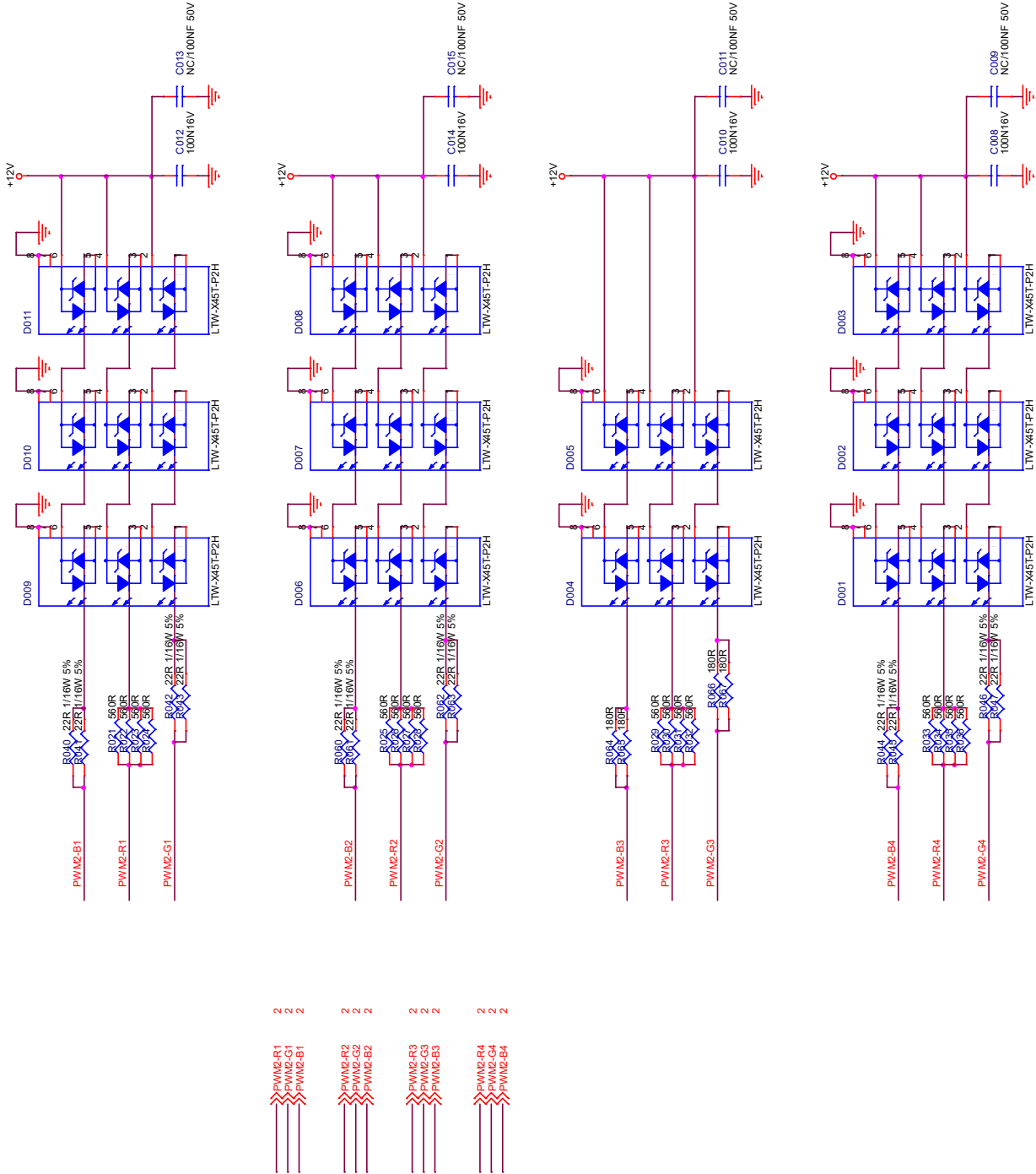


1	2	3	4	5	6	7	8
(XA 02-IN, XA04-OUT)							
(XA 02-OUT, XA04-IN)							

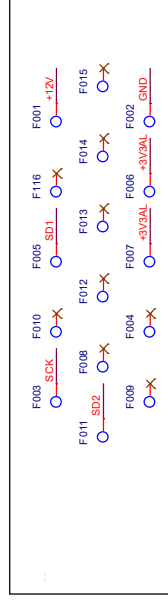
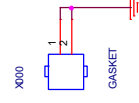
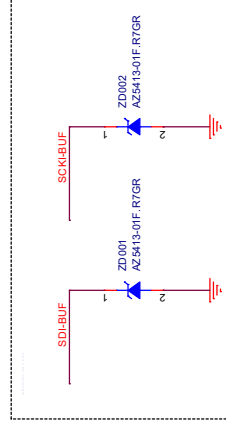
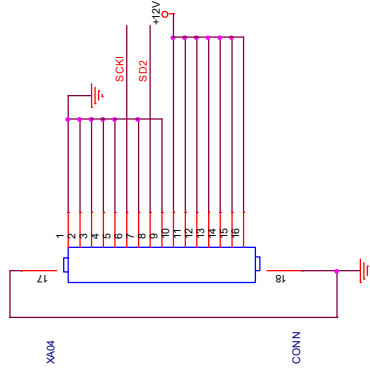
Model	Model	Model	Model
PWM2-R1	PWM2-R3	PWM2-R1	PWM2-R3
PWM2-G1	PWM2-G3	PWM2-G1	PWM2-G3
PWM2-B1	PWM2-B3	PWM2-B1	PWM2-B3
PWM2-R2	PWM2-R4	PWM2-R2	PWM2-R4
PWM2-G2	PWM2-G4	PWM2-G2	PWM2-G4
PWM2-B2	PWM2-B4	PWM2-B2	PWM2-B4



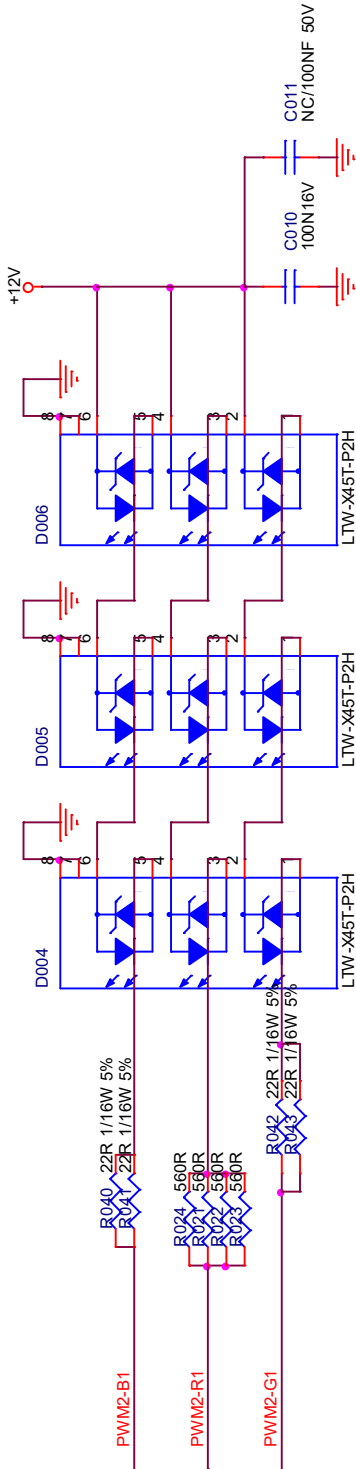
9-14-2 Ambilight 11-LED



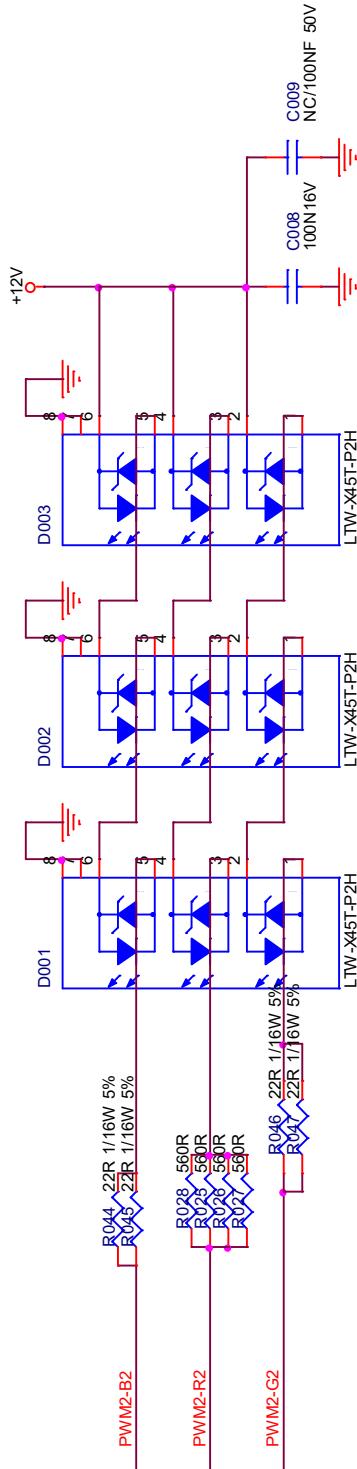
9-15-1 TLC5971



9-15-2 Ambilight 6-LED



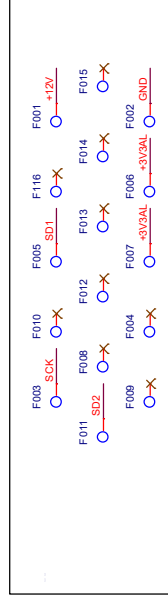
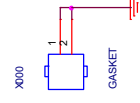
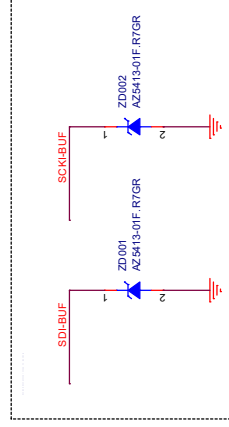
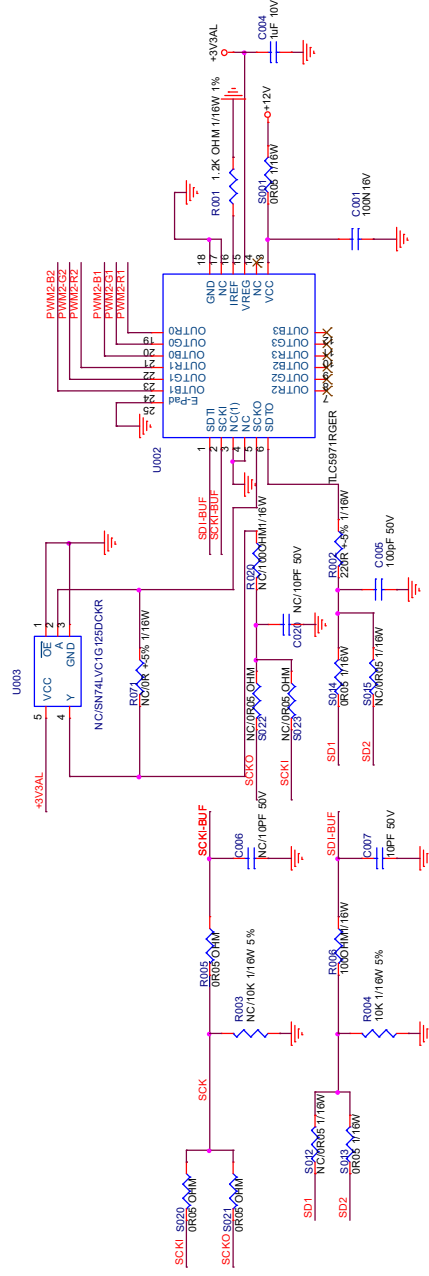
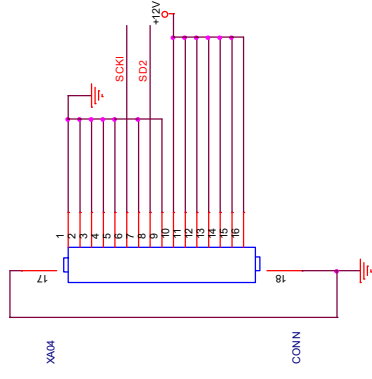
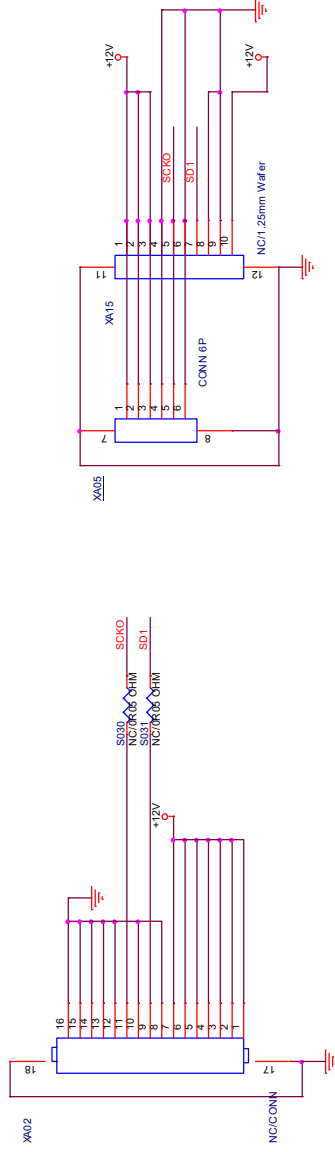
- >>>PWM2-R1 2
- >>>PWM2-G1 2
- >>>PWM2-B1 2



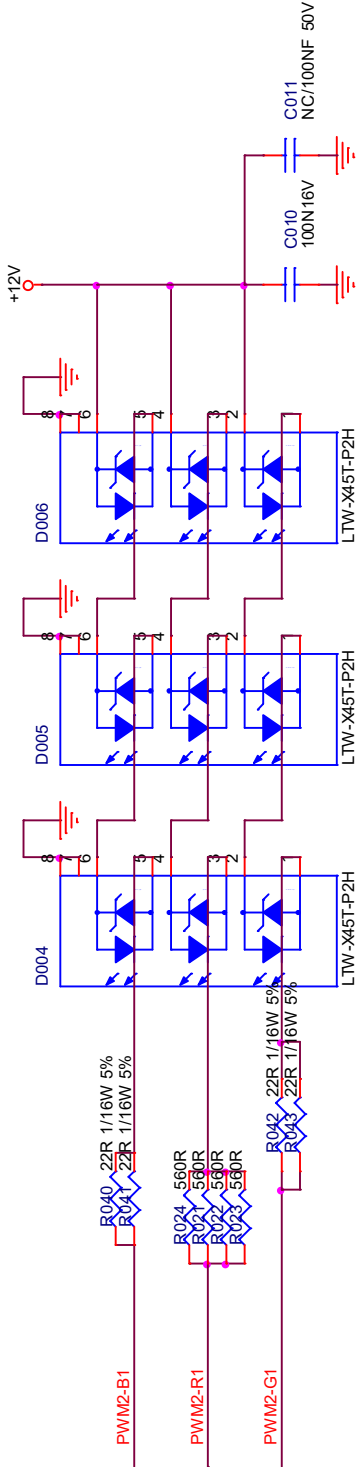
- >>>PWM2-R2 2
- >>>PWM2-G2 2
- >>>PWM2-B2 2

9.16 715GB087 AMBI Panel (For 65" /70" 85x5 & 65" 9435 Series)

9-16-1 TLC5971

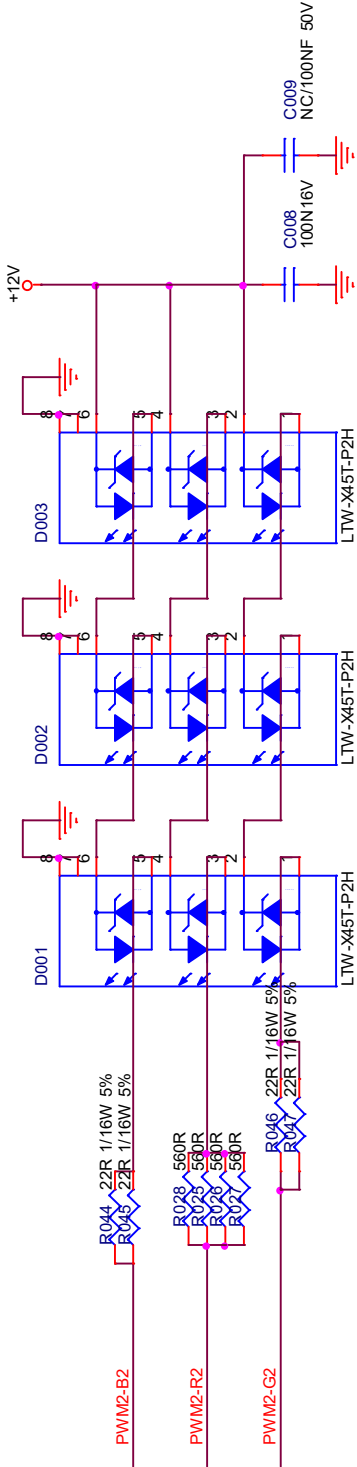


9-16-2 Ambilight 6-LED



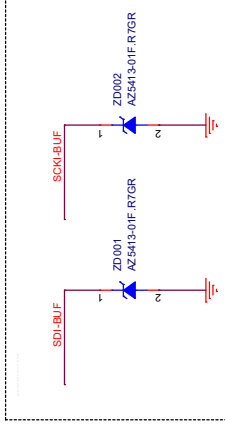
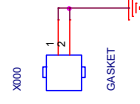
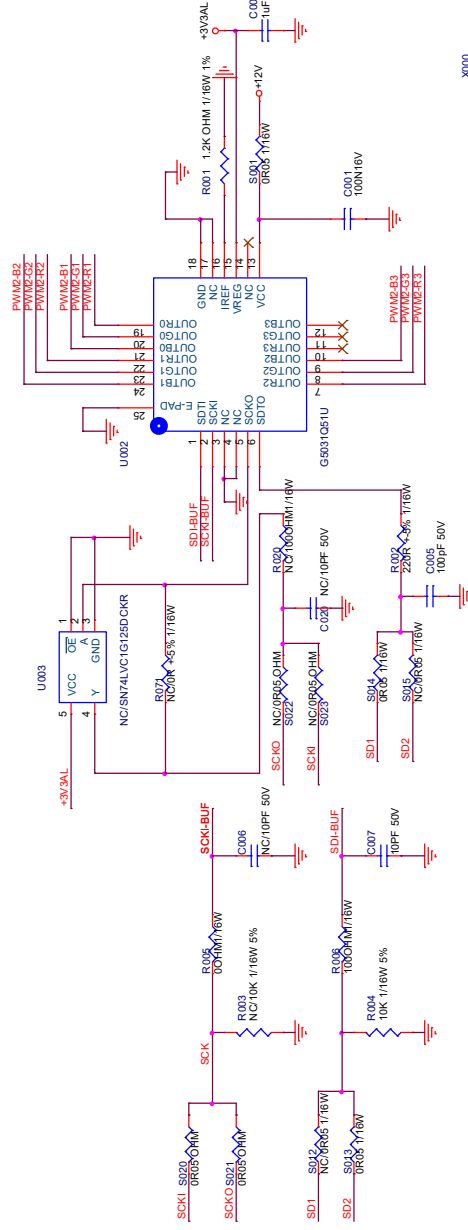
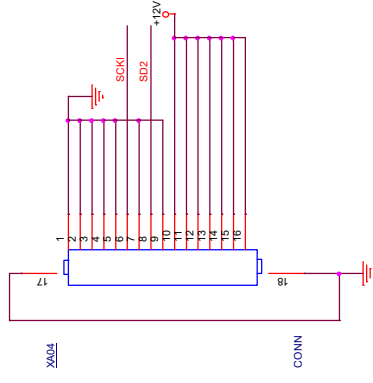
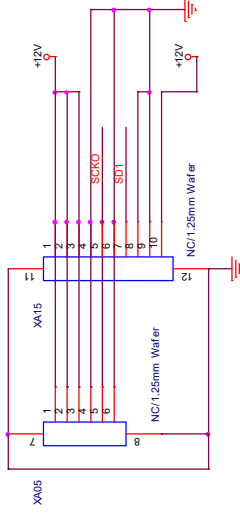
2
2
2

2
2
2



2
2
2

9-17-1 TLC5971



(XA02-IN, XA04-OUT)	1	2	3	4	5
(XA02-OUT, XA04-IN)	6	7	8	9	10

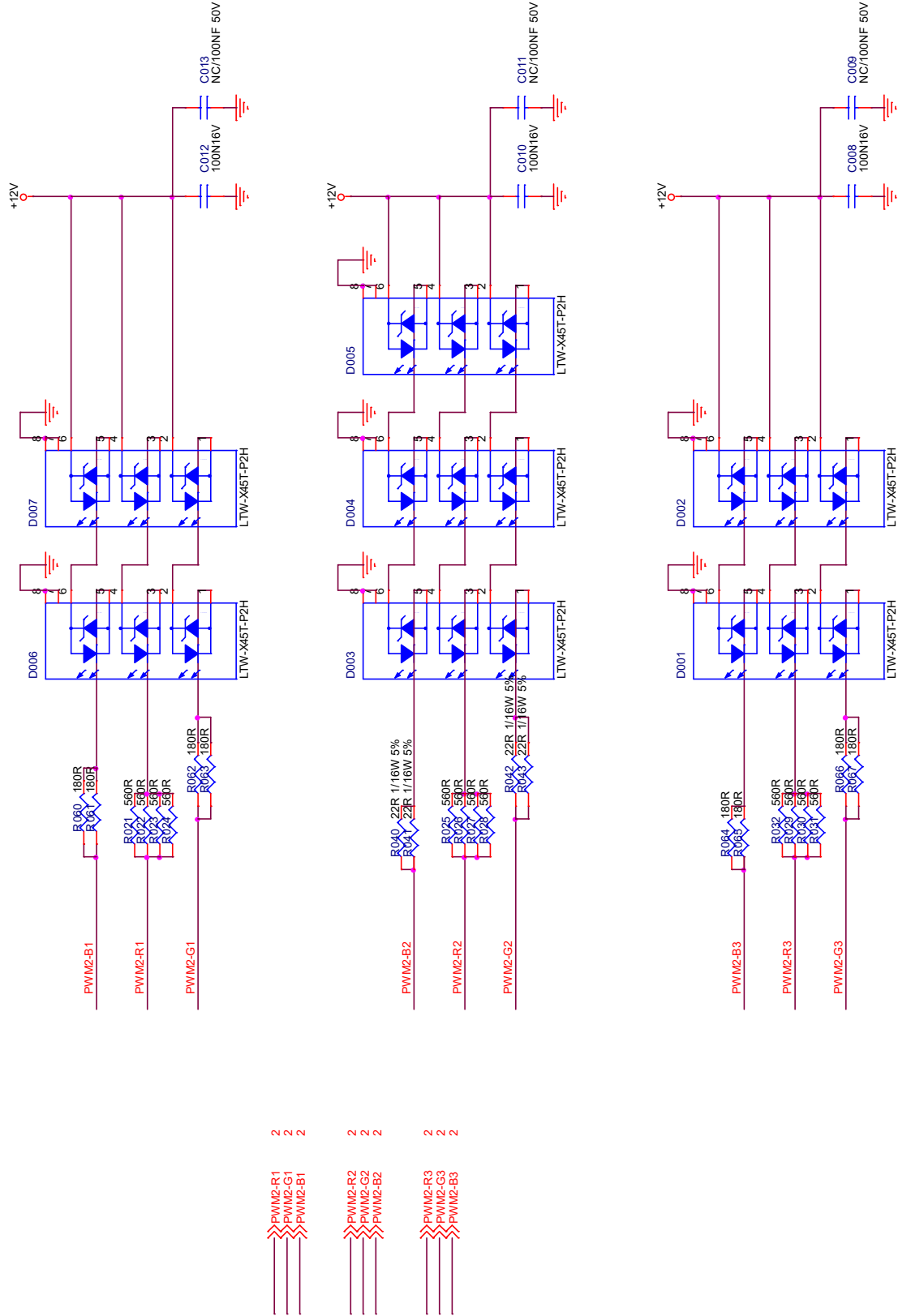
—	>>>PWN2-R2	3	>>>PWN2-R1	3	>>>PWN2-R3	3
—	PWN2-G2	3	PWN2-G1	3	PWN2-G3	3
—	PWN2-R2	3	PWN2-R1	3	PWN2-R3	3

3 PWM2-R3
3 PWM2-G3
3 PWM2-B3

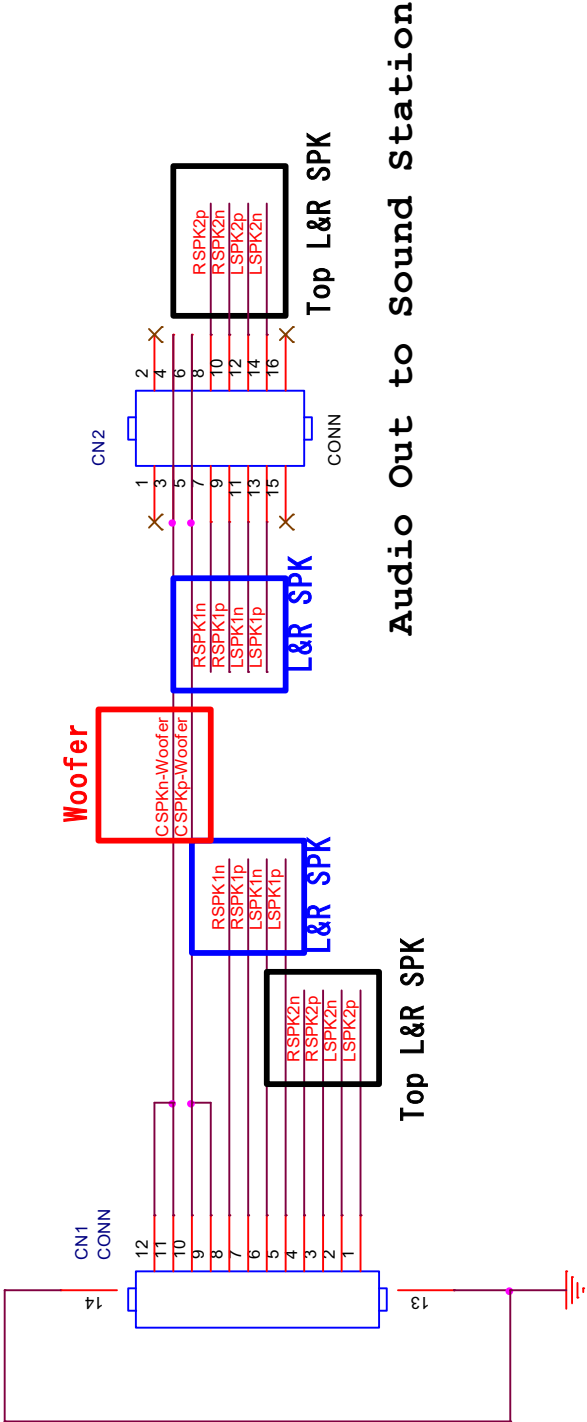
3 PWM2-R1
3 PWM2-G1
3 PWM2-B1

[illegible]

9-17-2 Ambilight 7-LED

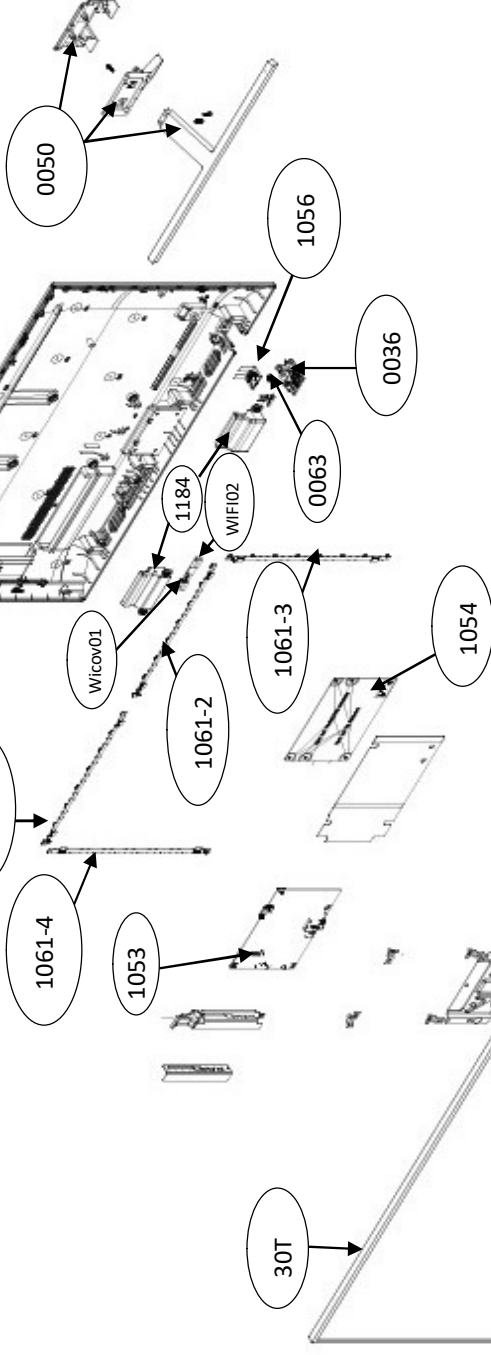


9.18 A 715GA823 Audio board (For 55"/65" 9435 Series)
9-18-1 sound board



Audio IN from SSB

10.1 85x5 series 43"



Pos NO	Description	Remark
30B	BEZEL ASSY-D	
30T	bezel plastic front-U	
36	LENS	
40	REAR COVER	
50	CENTRAL STAND (Neck Base & Screws included)	
63	KEY_FUNCTION	
1050	LCD PANEL	
1053	MAINB BOARD	
1054	POWER BOARD	
1056	IR BOARD	
1061-1	AMBI-LIGHT BOARD	
1061-2	AMBI-LIGHT BOARD	
1061-3	AMBI-LIGHT BOARD	
1061-4	AMBI-LIGHT BOARD	
1176	REMOTE PHILIPS	Not displayed
1184	Speaker	
Wicov01	COVER_CONNECTOR	
WiFi02	WiFi/BT USB	