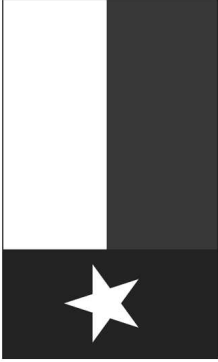


PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
2	2	H5P JTAG, USB ,PLL	N/A	N/A
3	3	H5P GPIO & CONTROL	N/A	N/A
4	4	H5P IO POWER	N/A	N/A
5	5	H5P SOC/CPU/SRAM FWR	N/A	N/A
6	6	H5P W/ NAND	N/A	N/A
7	7	H5P VIDEO	N/A	N/A
8	8	BUTTON FLEX B2B	N/A	N/A
9	9	L81 AUDIO CODEC	N/A	N/A
10	10	CG FLEX B2B	N/A	N/A
11	12	AGATHA PMU (1/2)	N/A	N/A
12	13	AGATHA PMU (2/2)	N/A	N/A
13	14	CHESTNUT + BACKLIGHT DRIVER	N/A	N/A
14	15	SPKR AMP + LED DRIVER	N/A	N/A
15	16	TRISTAR	N/A	N/A
16	17	DOCKFLEX B2B	N/A	N/A
17	18	D404 (TOUCH B2B, DRIVER ICS)	N/A	N/A
18	19	LCM CONNECTOR	N/A	N/A
19	20	OSCAR + SENSORS	N/A	N/A
20	21	CAMO CONNECTOR	N/A	N/A
21	22	BATT B2B, TPS, PD FEATURES	N/A	N/A
22	23	RADIO_MLB HIERARCH. SYMBOL	N/A	N/A

SCH 051-0143
BRD 820-3581

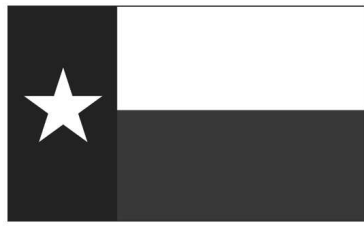
BOM 639-4501



iPhone 5C

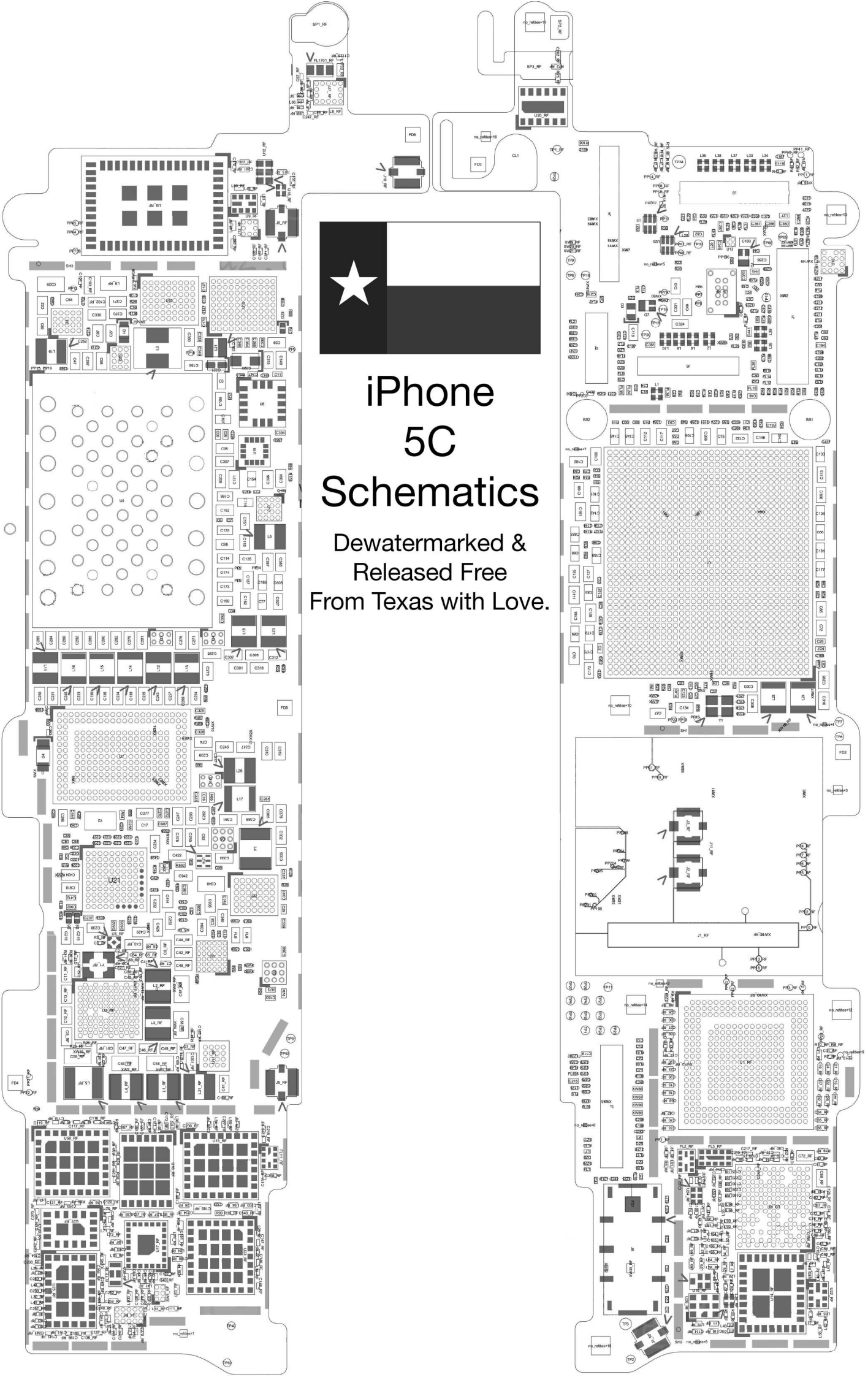
Schematics

Dewatermarked &
Released Free
From Texas with Love.



iPhone 5C Schematics

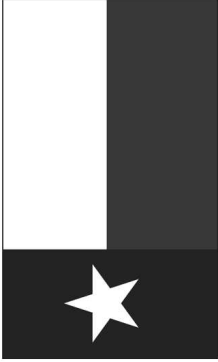
Dewatermarked &
Released Free
From Texas with Love.



PDF PAGE	CSA PAGE	CONTENTS	SYNC MASTER	DATE
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11	12	AGATHA PMU (1/2)	N/A	N/A
12	13	AGATHA PMU (2/2)	N/A	N/A
13	14	CHESTNUT + BACKLIGHT DRIVER	N/A	N/A
14	15	SPKR AMP + LED DRIVER	N/A	N/A
15	16	TRISTAR	N/A	N/A
16	17	DOCKFLEX B2B	N/A	N/A
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22	23	RADIO_MLB HIERARCH. SYMBOL	N/A	N/A

SCH 051-0143
BRD 820-3581

BOM 639-4501



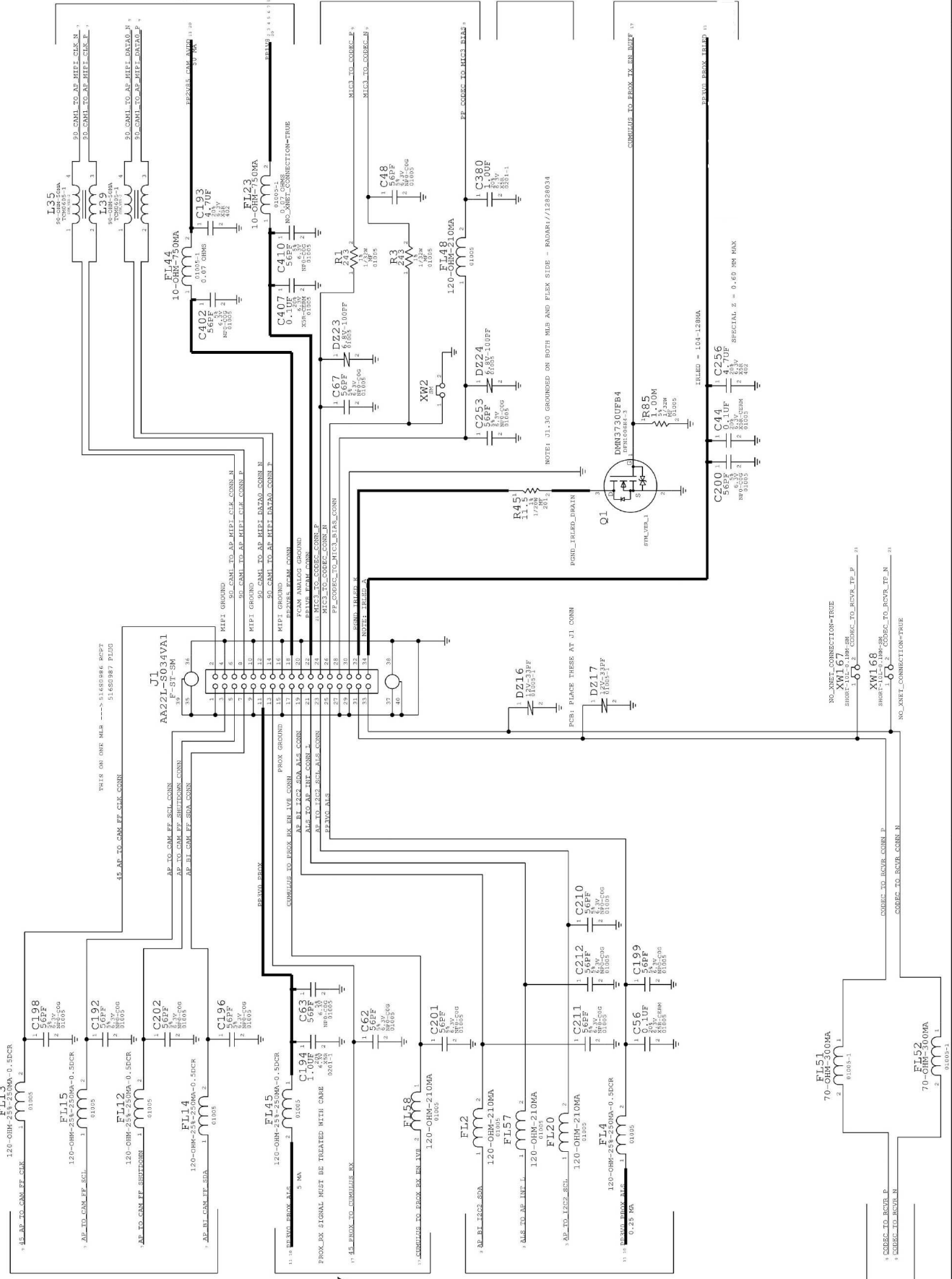
iPhone 5C

Schematics

Dewatermarked &
Released Free
From Texas with Love.

(FF CAM, PROX, ALS, RECEIVER, ANC ERROR MIC)

THIS ON ONE MLR ----> 516S0986 RCPT
516S0987 PLUG
45 AD TO CAM FE CLK CONN



AW100
SHORT-10L-0.1MM-3M
1 2 CODEC_TO_RCVR_TP_N 21
NO VNET CONNECTION-TRUE

MIC3
(ANG
ERROR MTC)

CAM1 ALS INT

PROX: PWR. TX EN

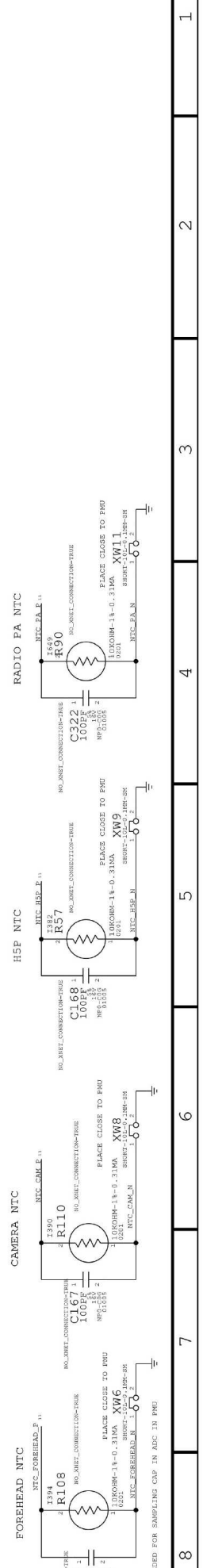
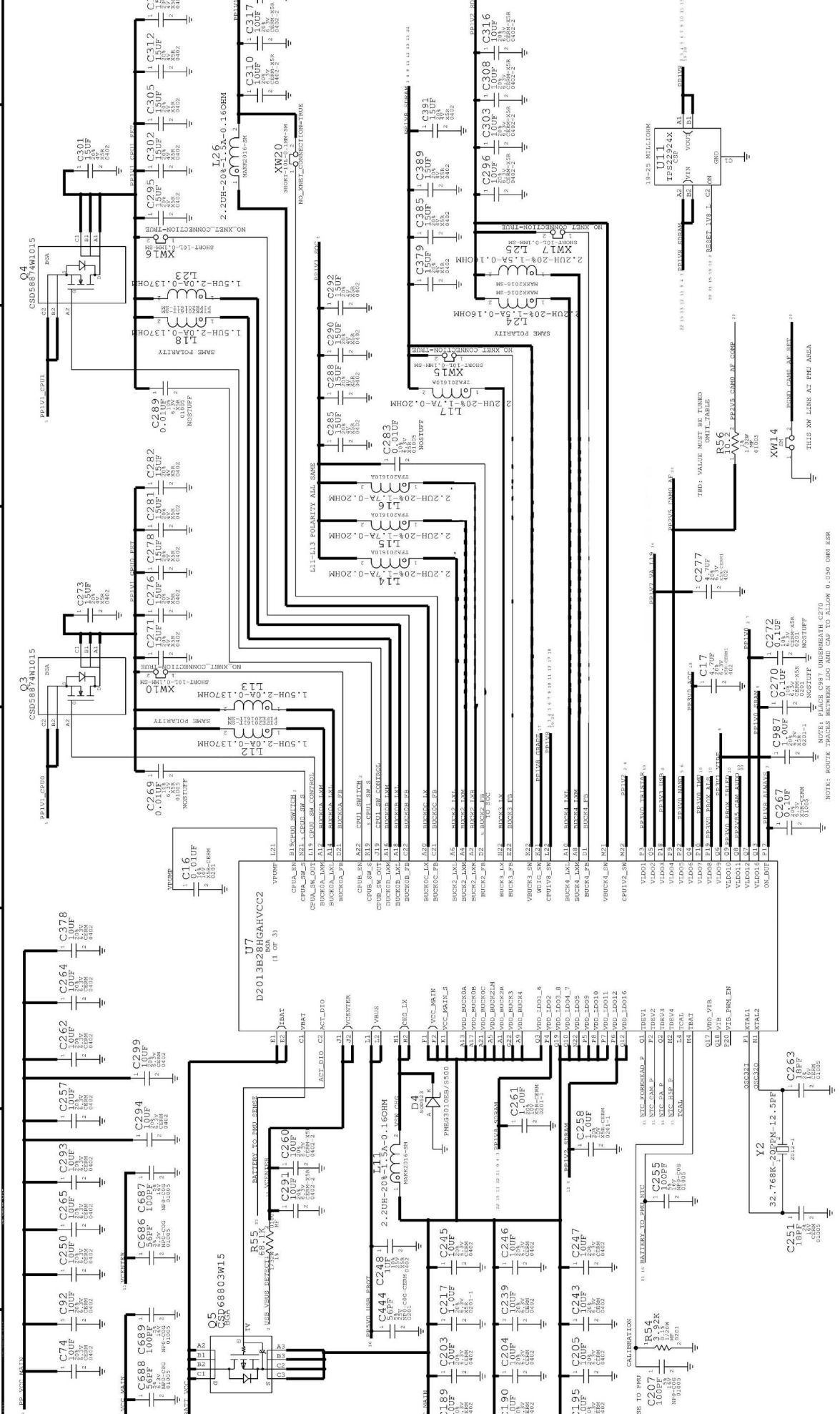
FRONT CAM:
POWER AND MIPT

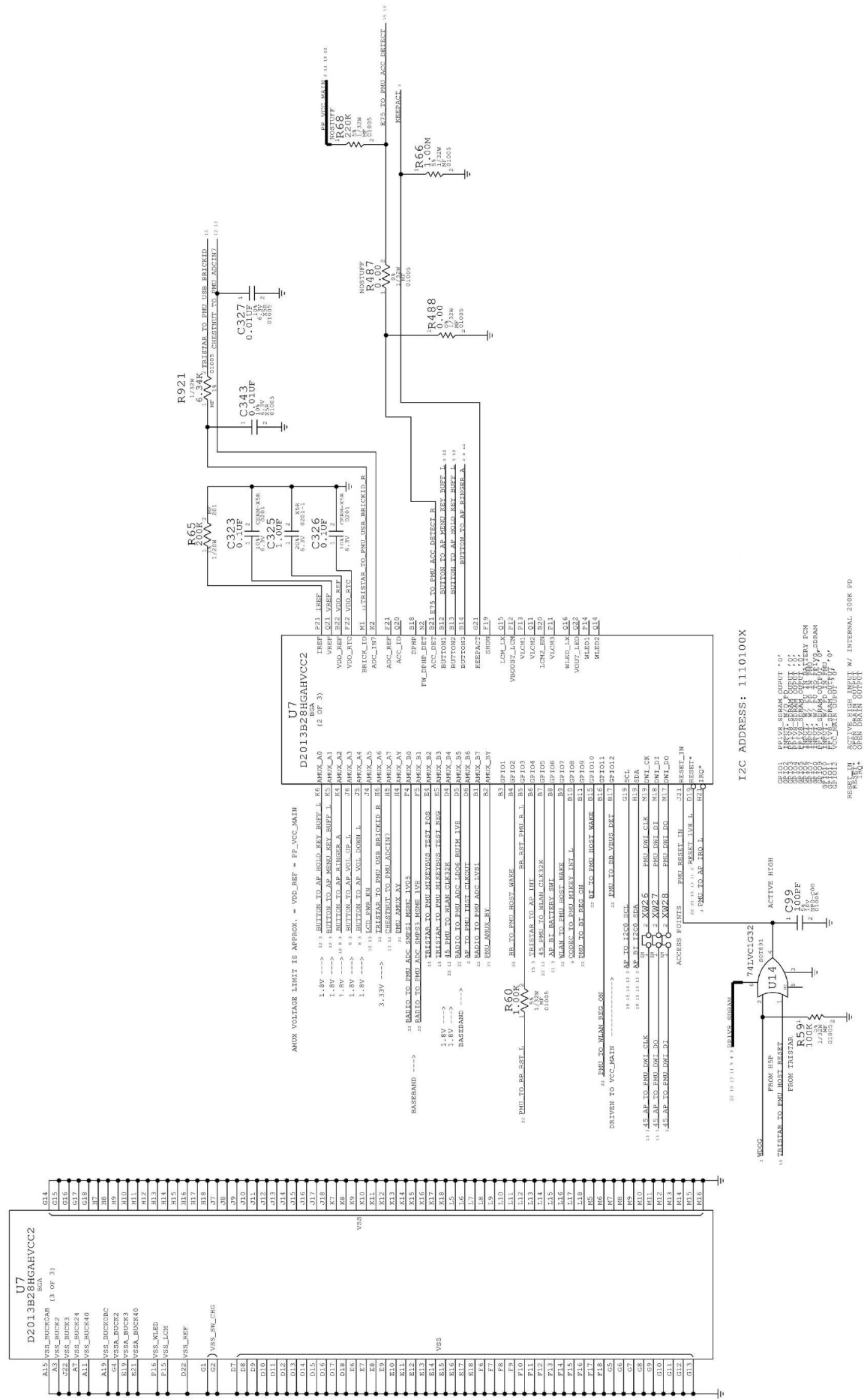
ALS: POWER,
I2C, INT

PROX: POWER
RX, RX EN

FL51
70-OHM-300MA

FL52
70-CHM-300MA

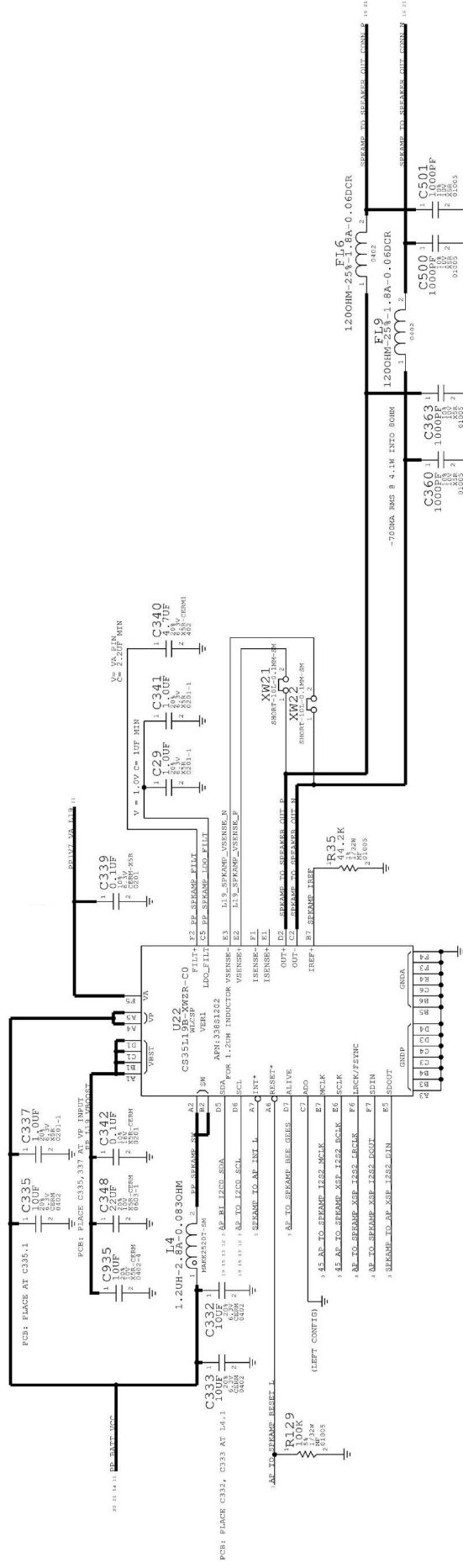




SPEAKER AMP, LED DRIVER

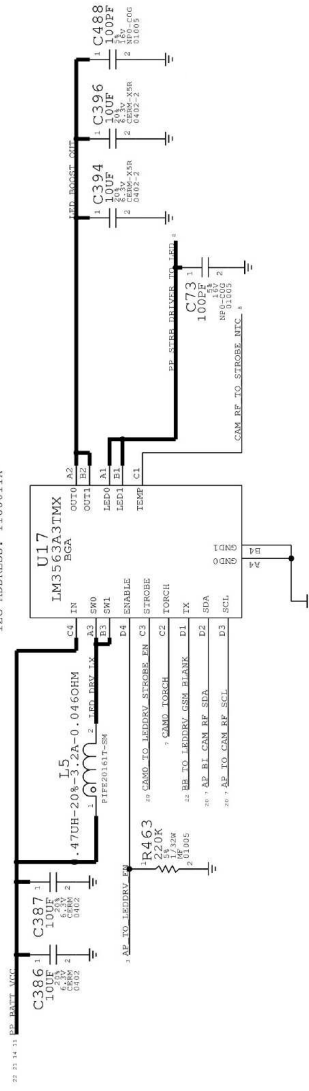
SPEAKER AMP L19

I2C ADDRESS: 1000000X



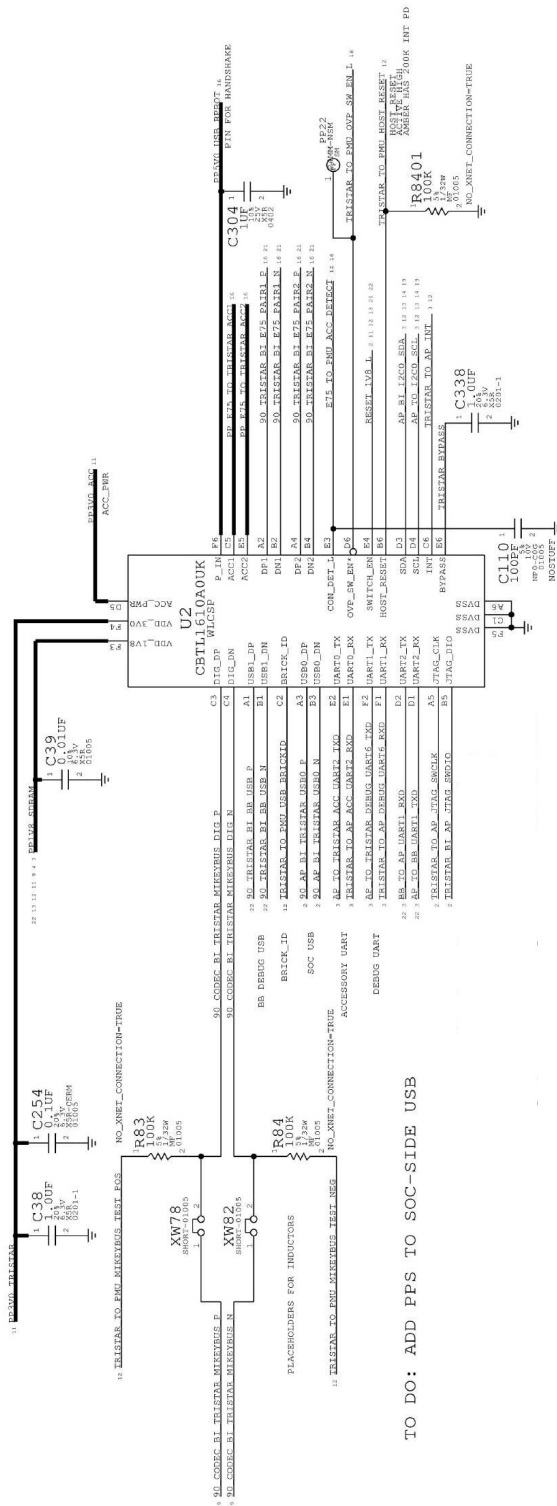
LED DRIVER

I2C ADDRESS: 1100011X



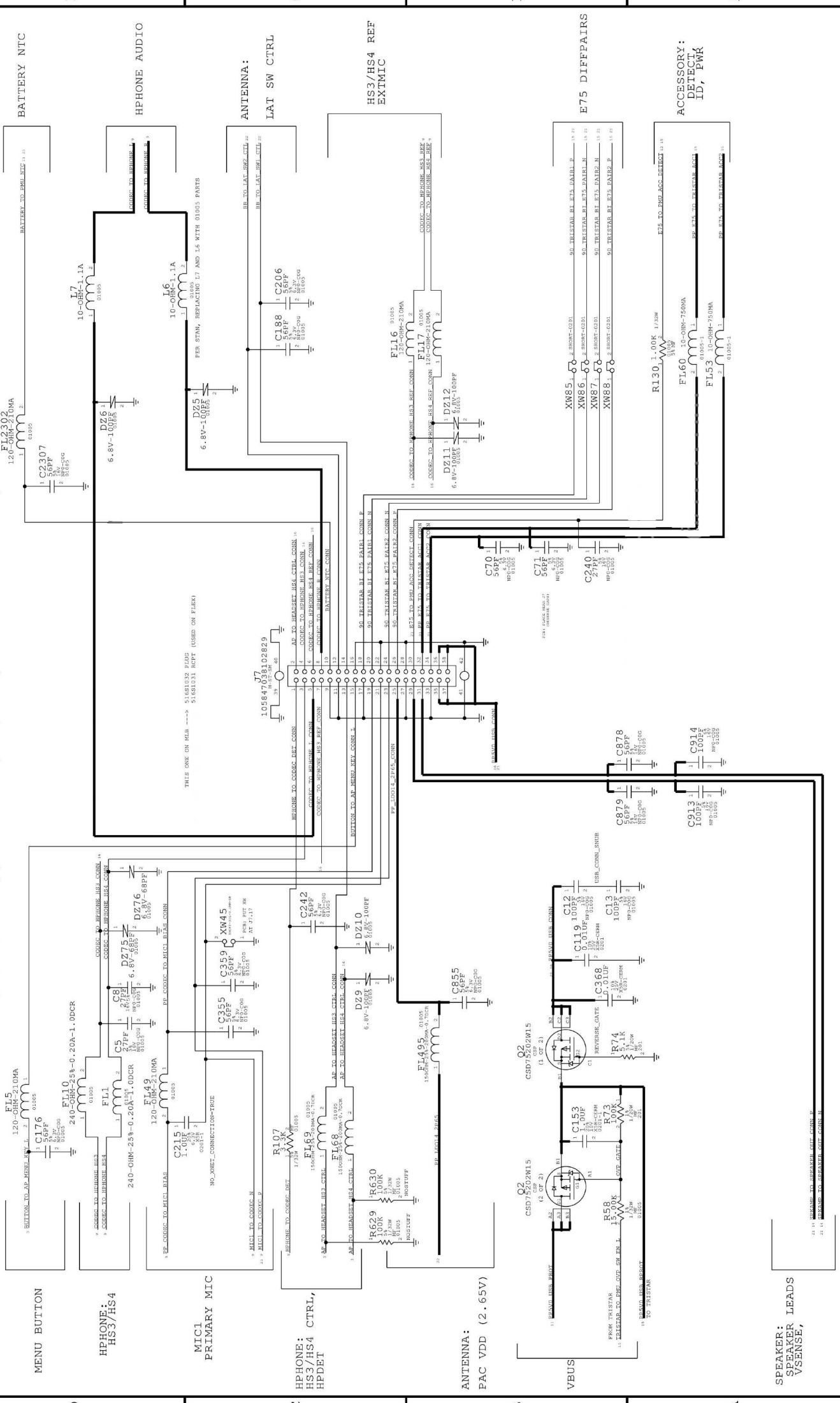
TRISTAR

12C ADDRESS: 0011010X



TO DO: ADD PPS TO SOC-SIDE USB

DOCKFLEX B2B (USB VBUS, MENU BTN, SPEAKER, HP, HP EXTMIC, ANTENNA PAC/LAT SW CTRL, MIC1 (VOICE MIC), ACC DET/ID/PWR, E75 DIFFPAIRS)



SAGE2 C0

SAGE2 C0



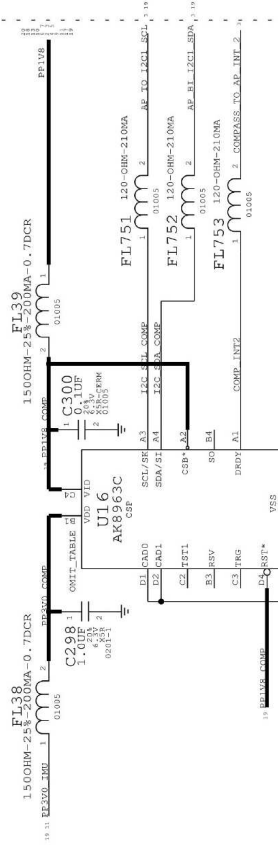
SENSORS

THIS PART OUTSIDE OF SHIELD

COMPASS

COMPASS DEVICE: 33861014

COMPASS INTERPOSER: 998-5120

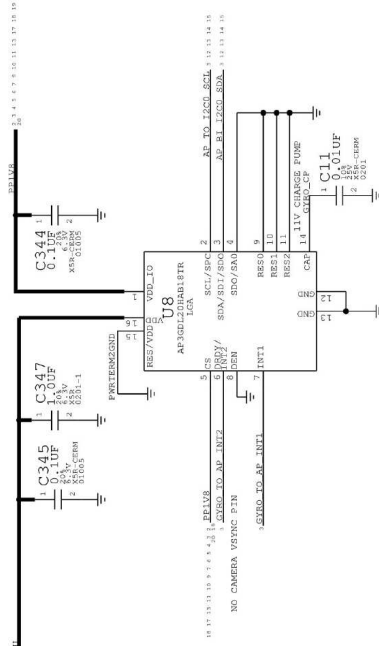


TO DO:
ADD ALTERNATE ATCHI
COMPASS (APN 33861133)

THESE PARTS INSIDE OF SHIELD

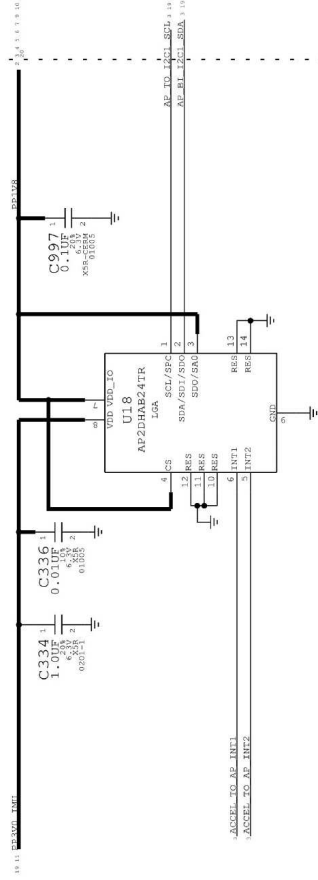
GYRO

AP3GDL20HAB, APN 338S1192



ACCELEROMETER

AP2DHAB, APN 338S1191



TO DO: VERIFY CONNECTIONS ON ACCEL (CS, SDO PINS)



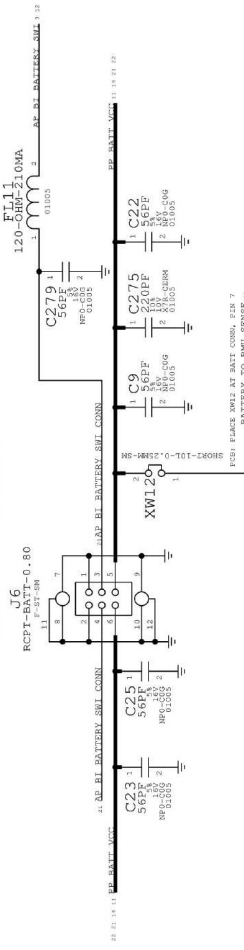
CAMO: 4-LANF: MTPT



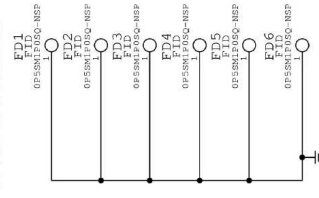
BATT CONN, TPS, STANDOFFS/SHIELDS/FIDUCIALS

BATTERY CONN

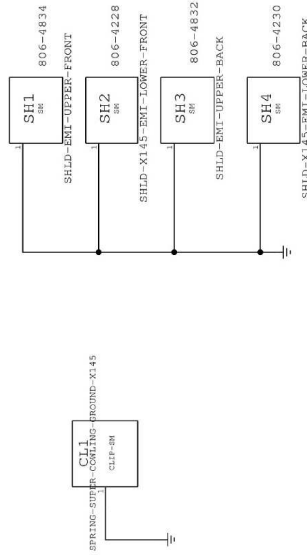
THIS ONE ON M.L.B. ---> 51681068 RCPT
51681076 PLUG (USED ON BATTERY PCM)



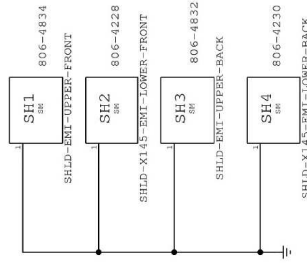
ETDUCTA.S



COWLING UPPER LEFT



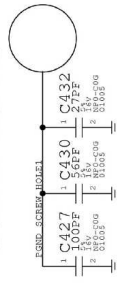
SHIELDS



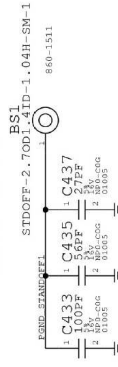
AC COUPLED SCREW HOLES + STANDOFFS (ON NORTH END OF SINGLE BRD. TO MITIGATE COMPASS RETURN CURRENTS)

(ON NORTH END OF SINGLE-BRD. TO MITIGATE COMPASS RETURN CURRENTS)

SCREW HOLES

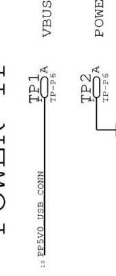


STANDOFFS

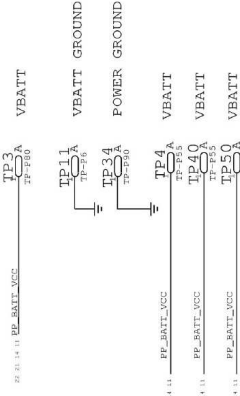


TESTPOINTS
SPKAMP OUTPUT TP

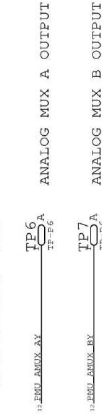
POWER TP



E75 – USB/UART/ID/POWER



SUPER TP-16



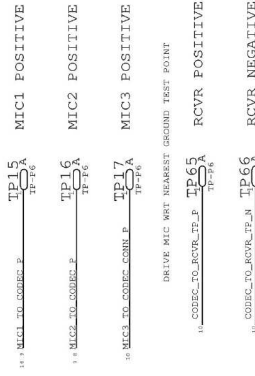
RESET



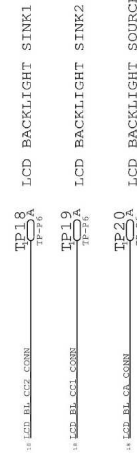
DEF



MIC AUDIO



LCM BACKLIGHT



PDF PAGE	CSA PAGE	CONTENTS
2	2	AP INTERFACE & DEBUG CONNECTORS
3	3	PMU (1 OF 2)
4	4	PMU (2 OF 2)
5	5	BASEBAND (1 OF 2)
6	6	BASEBAND (2 OF 2)
7	7	RF TRANSCEIVER (1 OF 2)
8	8	RF TRANSCEIVER (2 OF 2)
9	9	RX MATCHING
10	10	TX INTERSTAGE FILTERS
11	11	BAND 1/34/39/38/40 TX
12	12	BAND 2/3 PAD
13	13	BAND 7/20 PAD
14	14	BAND 5/8 PAD
15	15	2G PA
16	16	PA DCDC CONVERTER
17	17	PRIMARY ASM
18	18	RX DIVERSITY
19	19	GPS
20	20	ANTENNA FEEDS
21	21	SWITCH LOGIC
22	22	BLANK
23	23	WIFI/BT

SCH : 951-3301

BOM : 639-4501

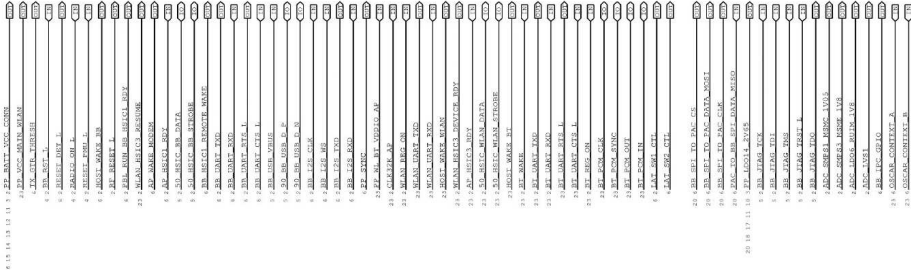
BOARD : 820-3581

AP INTERFACE & DEBUG CONNECTORS

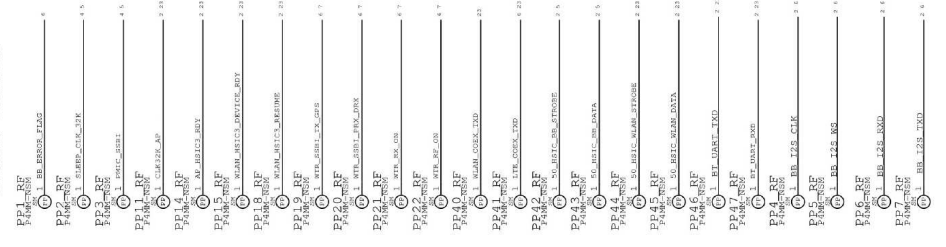
AP CONNECTIONS

IN = FROM AP

TO AP



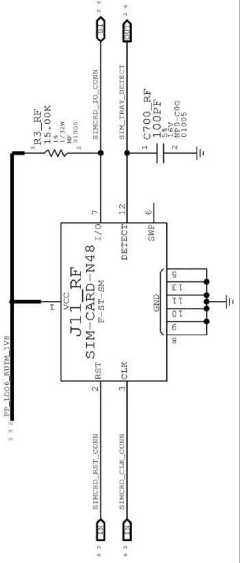
PROBE POINTS



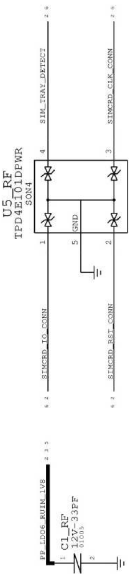
PROBE POINTS NEAR AP



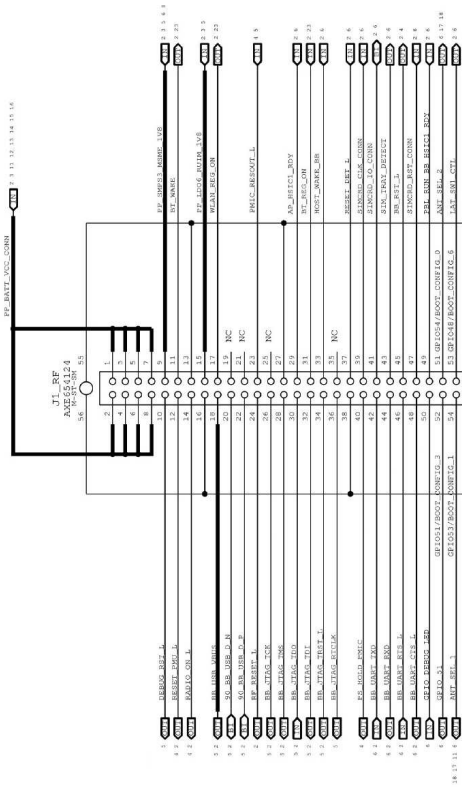
SIM CARD CONNECTOR



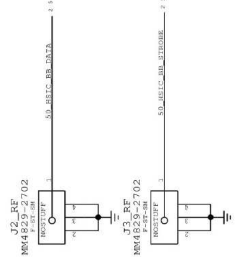
SIM CARD ESD PROTECTION



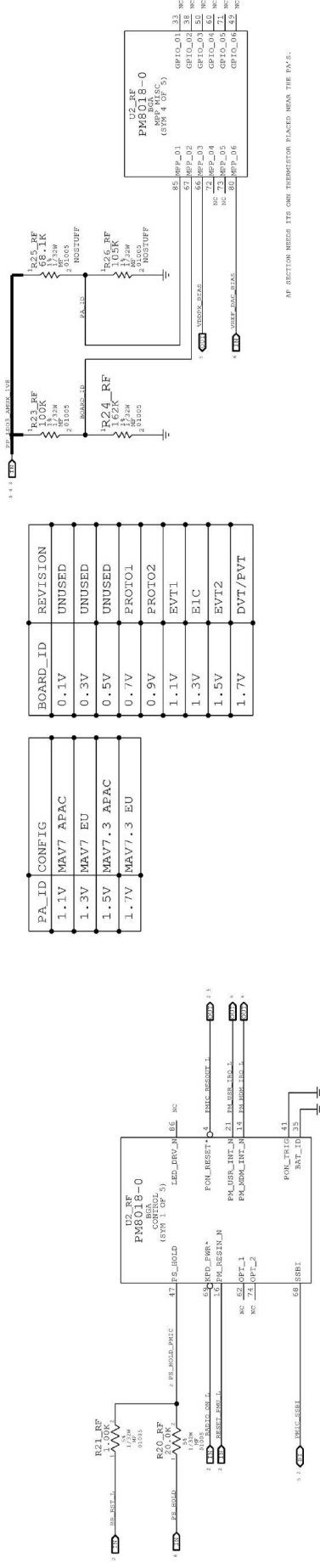
DEBUG CONNECTOR



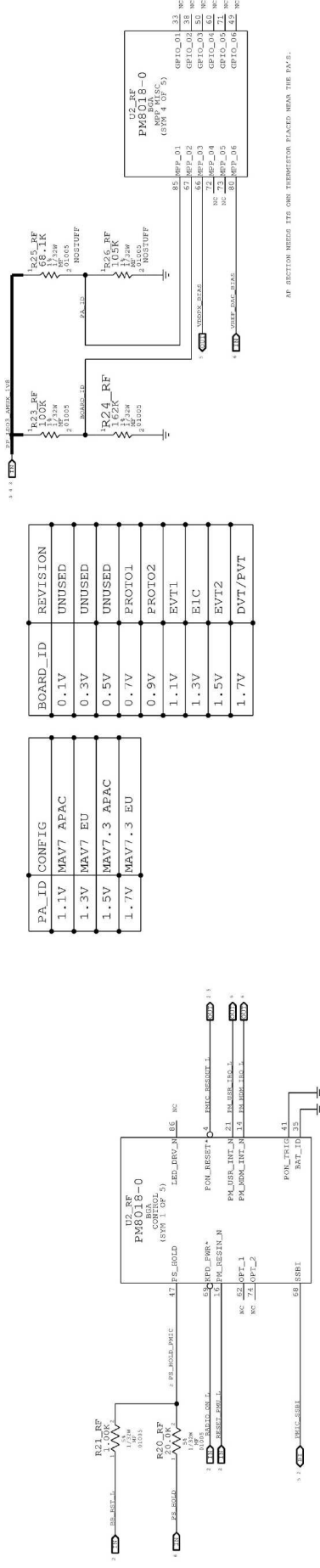
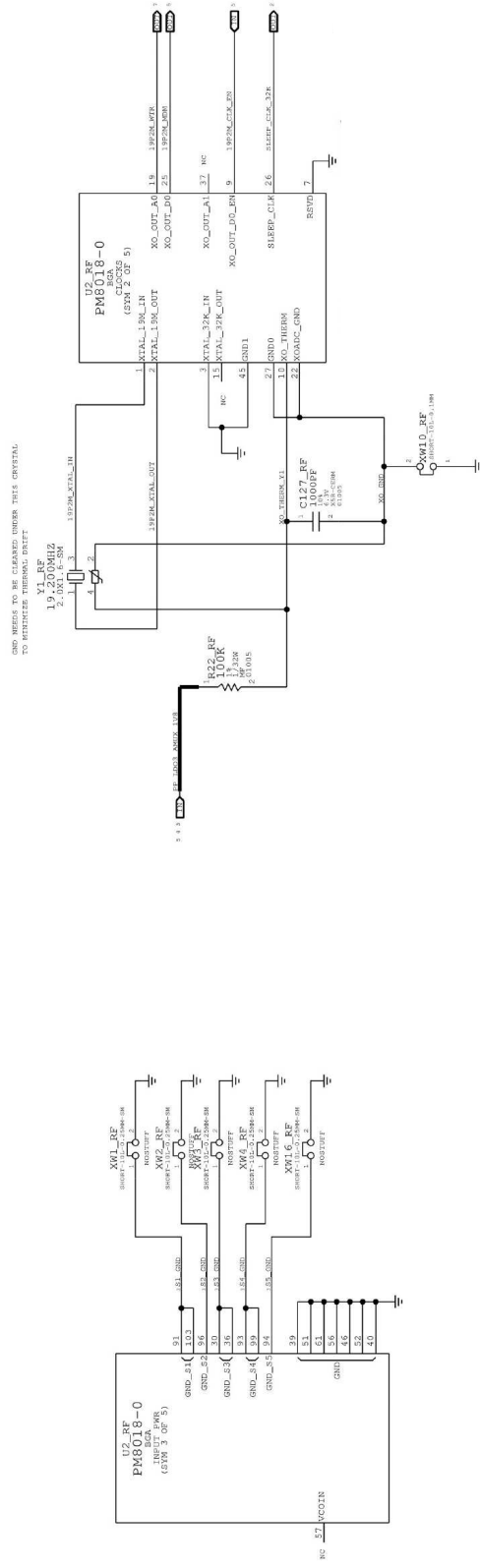
BOOT_OPTIONS	BOOT_COUNTER	BOOT_COUNTER_INCREMENT
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100	100	100



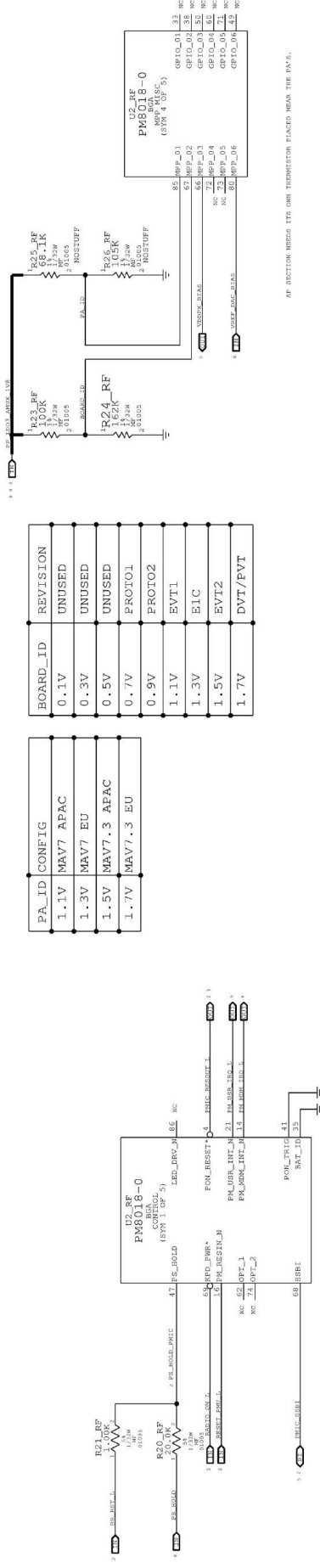
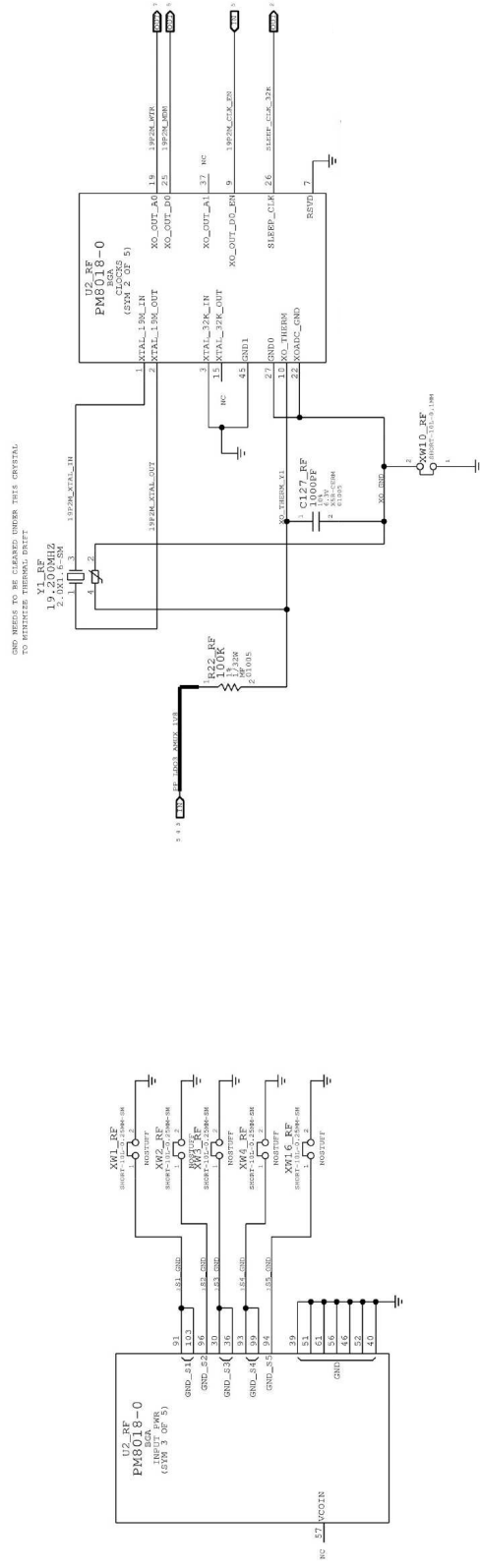




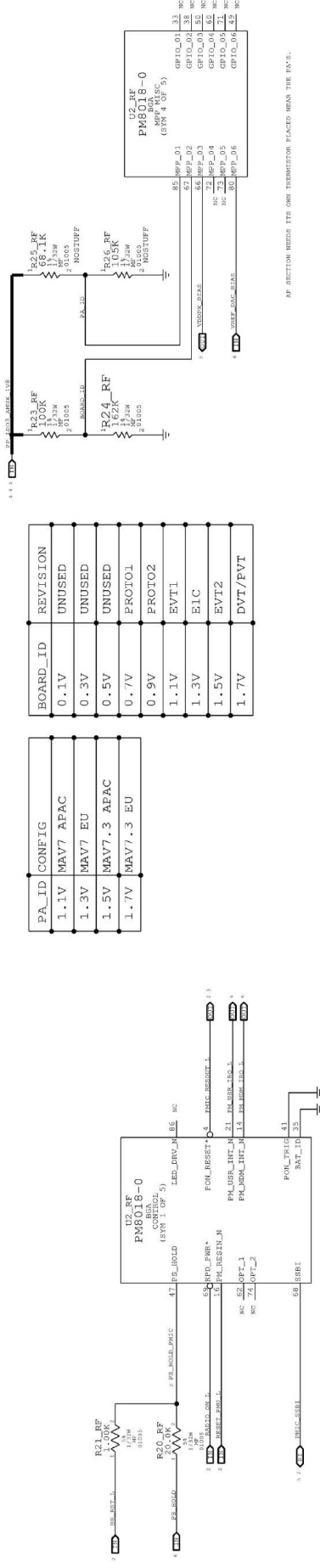
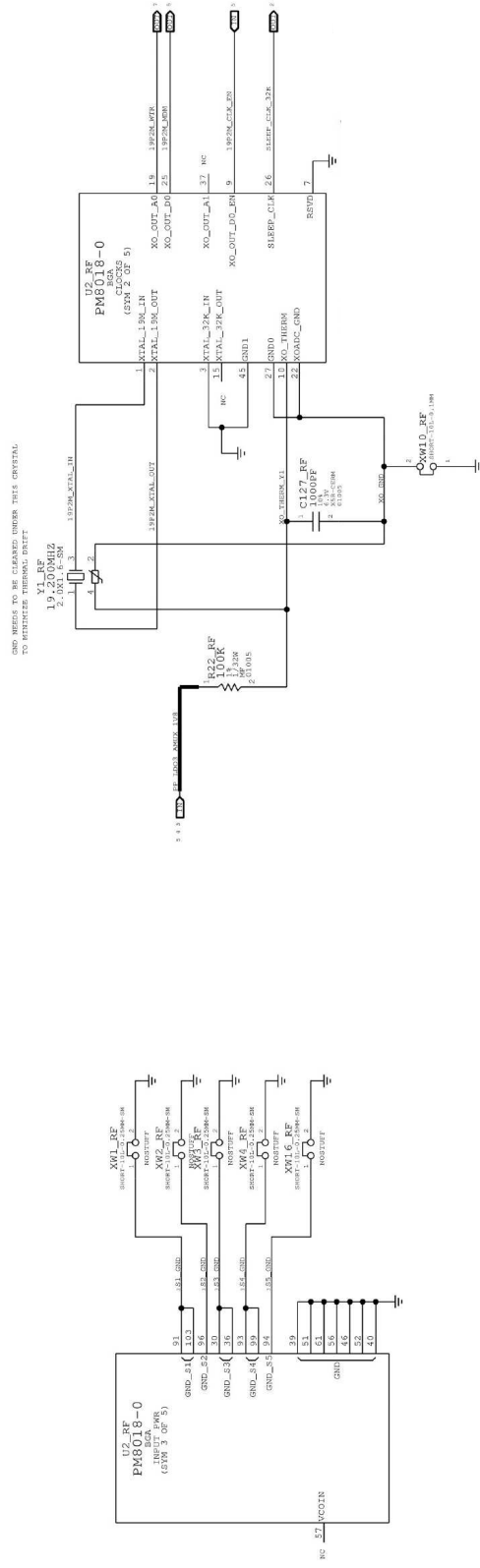
AP SECTION NEEDS ITS OWN THERMISTOR PLACED NEAR THE PA'S



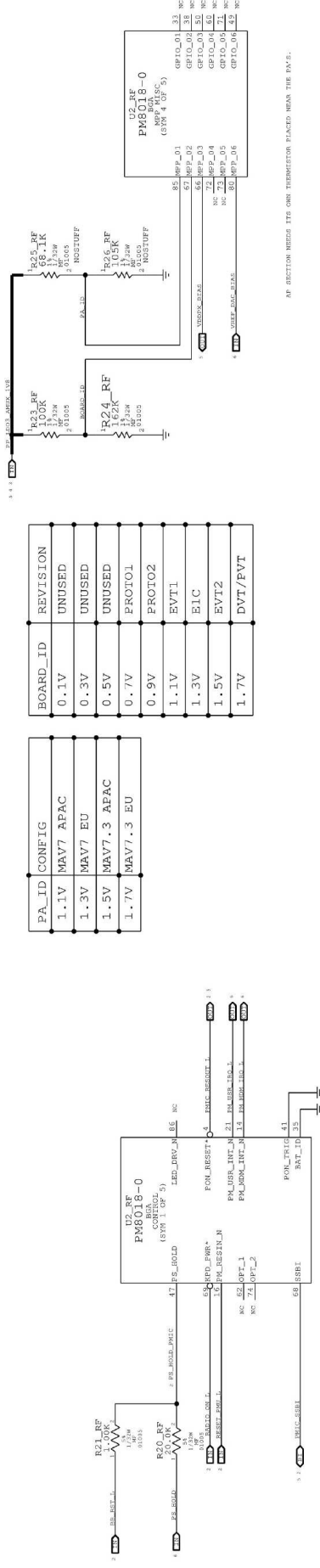
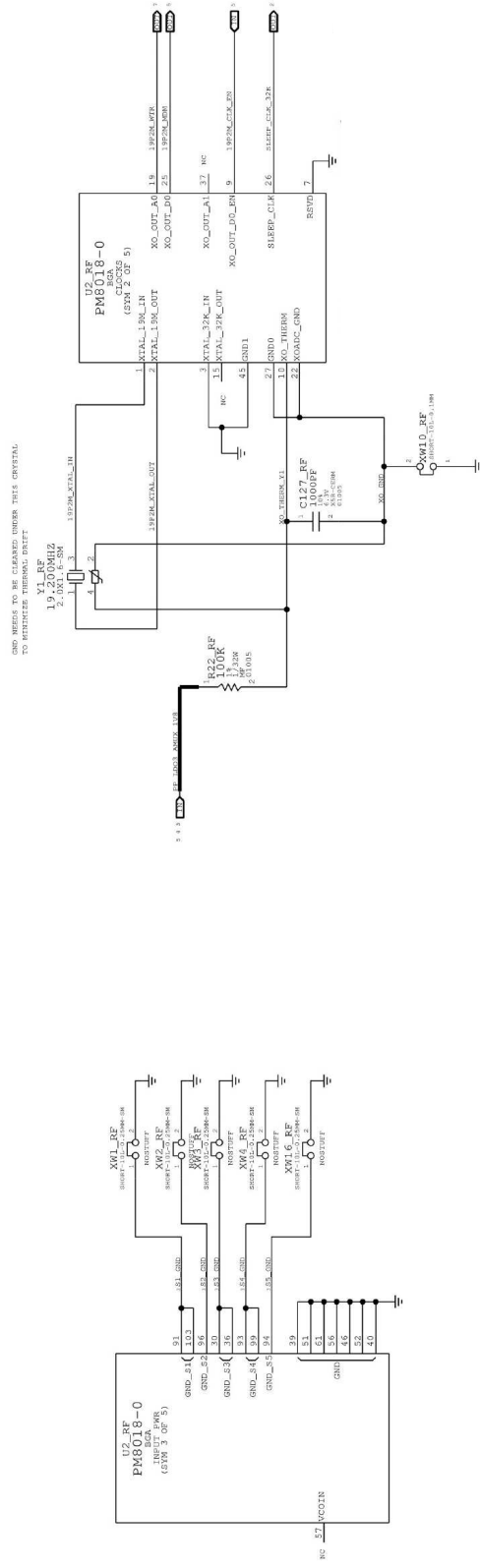
AP SECTION NEEDS ITS OWN THERMISTOR PLACED NEAR THE PA'S



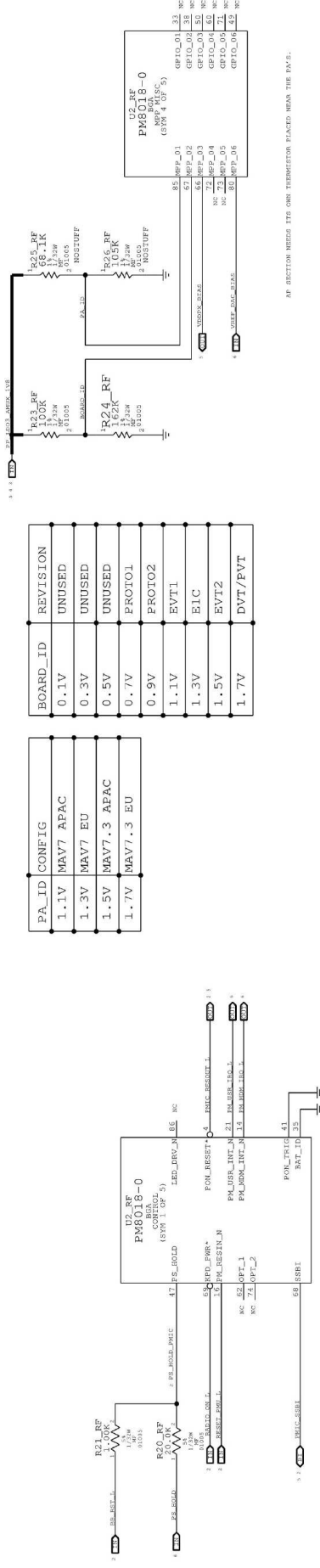
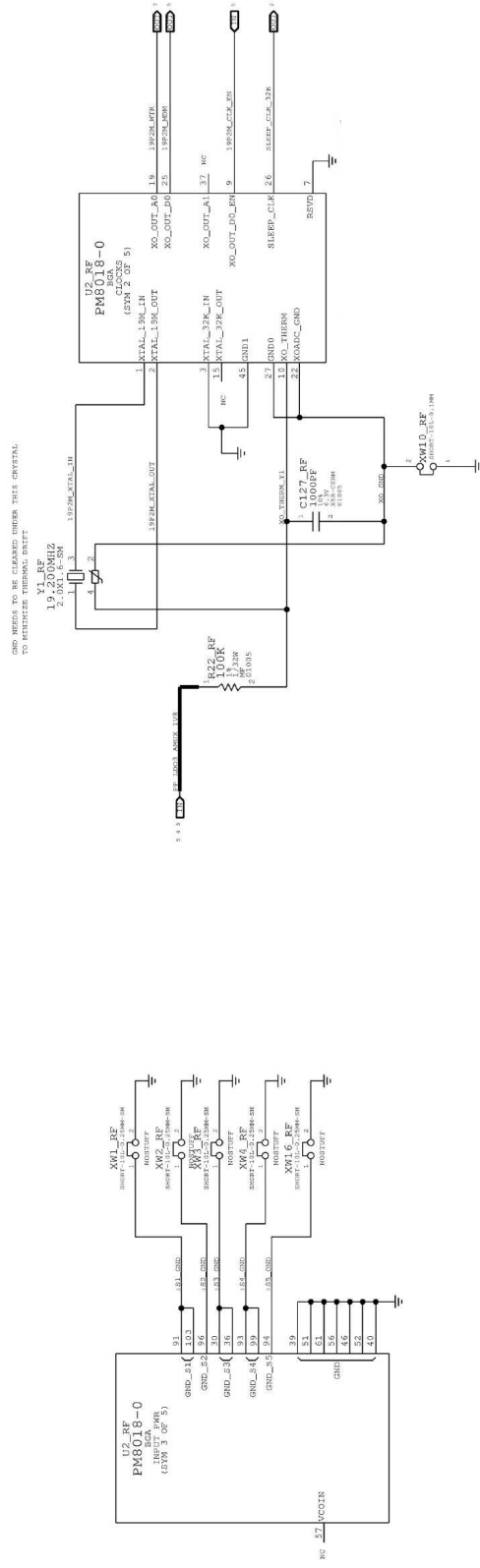
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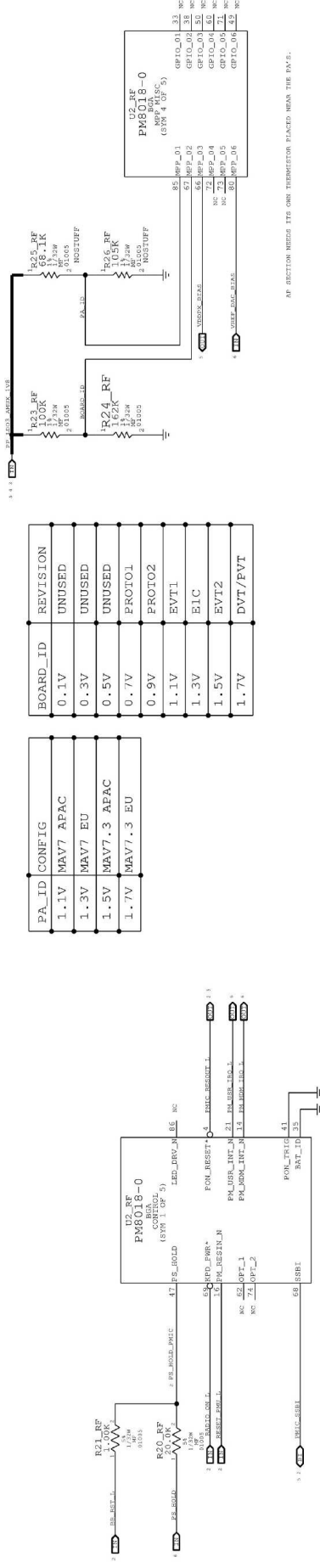
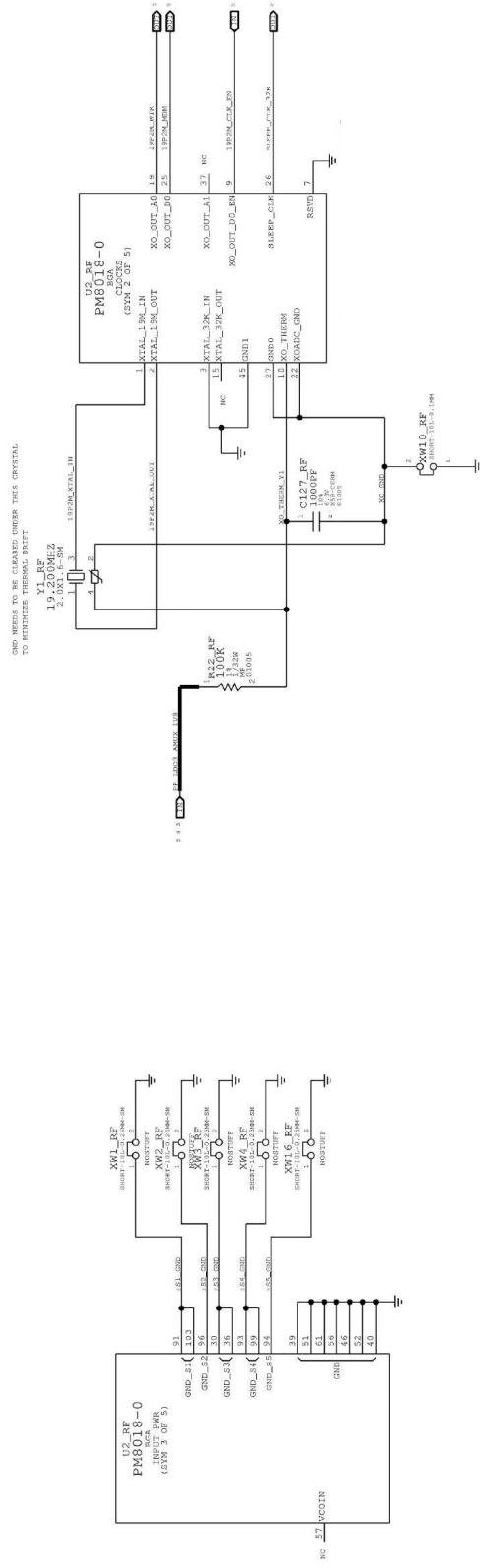
AP SECTION NEEDS ITS OWN THERMISTOR PLACED NEAR THE PA'S



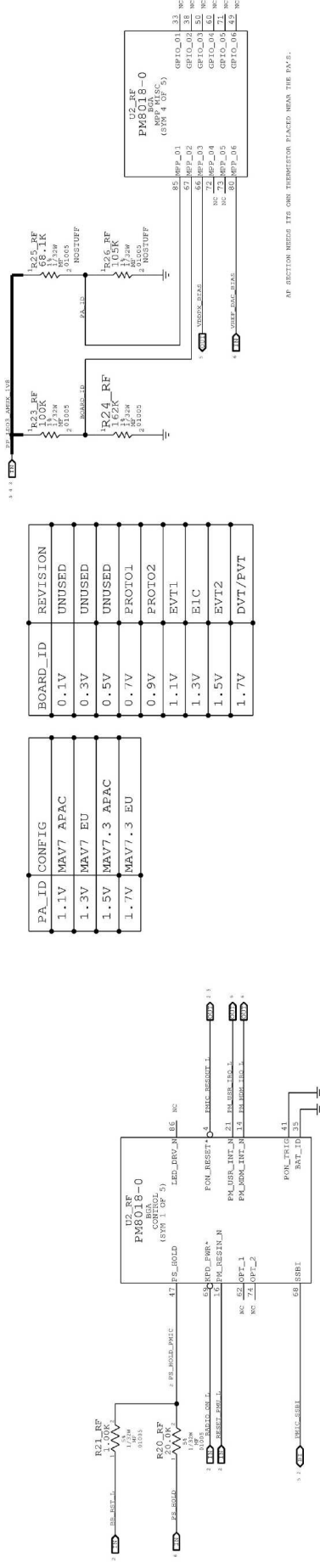
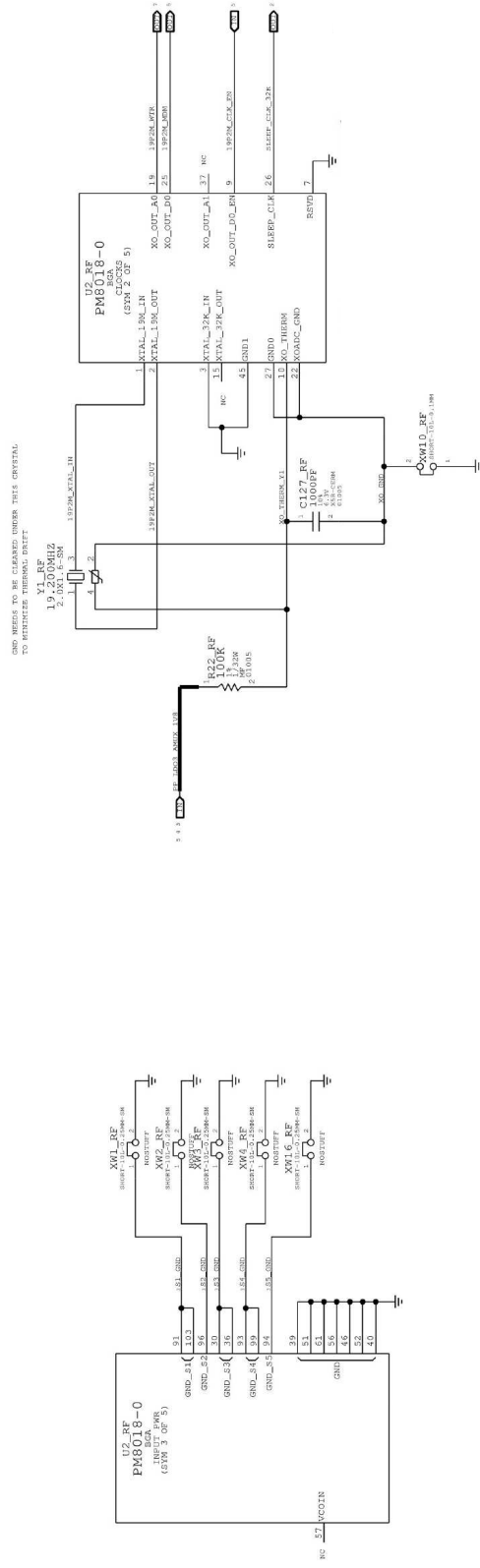
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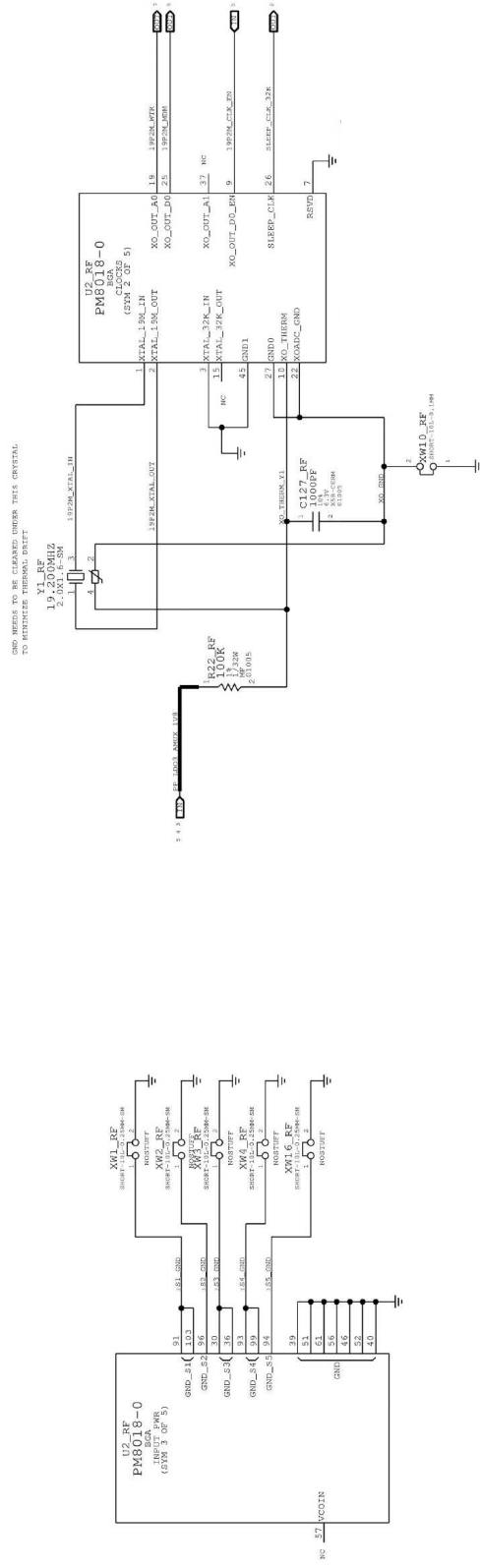
AP SECTION NEEDS ITS OWN THERMISTOR PLACED NEAR THE PA'S



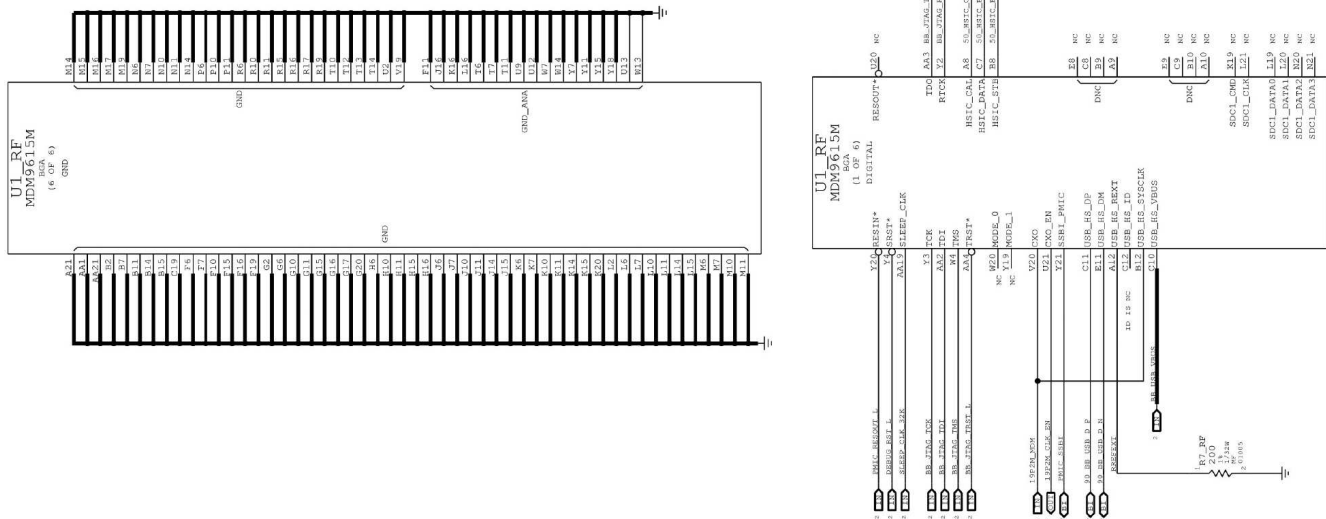
AP SECTION NEEDS ITS OWN THERMISTOR PLACED NEAR THE PA'S



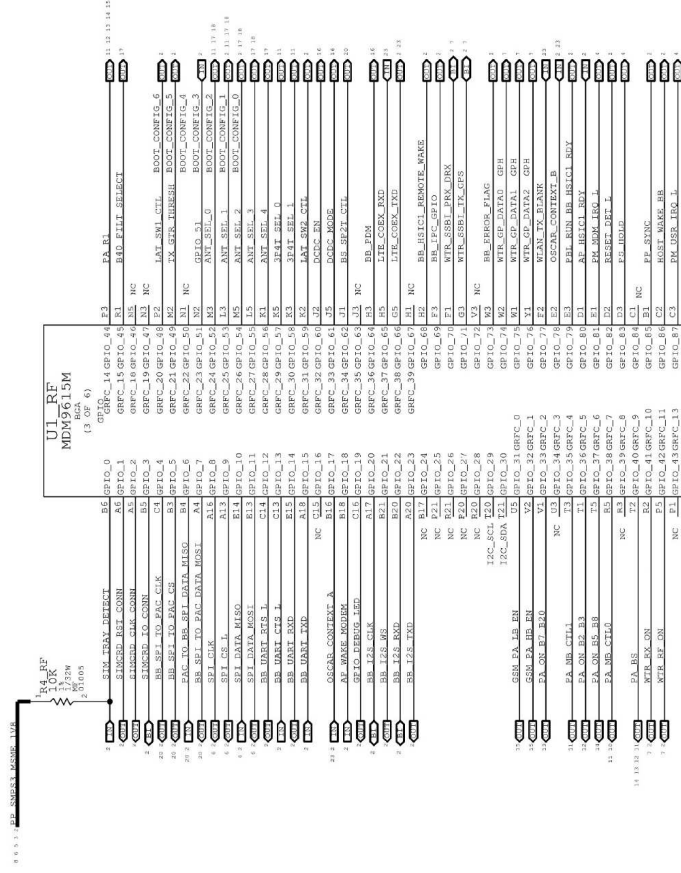
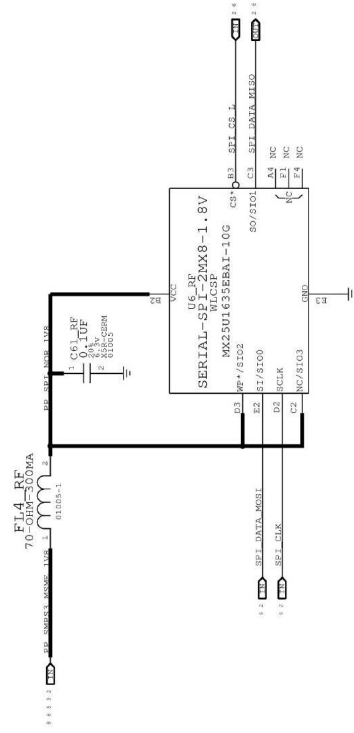
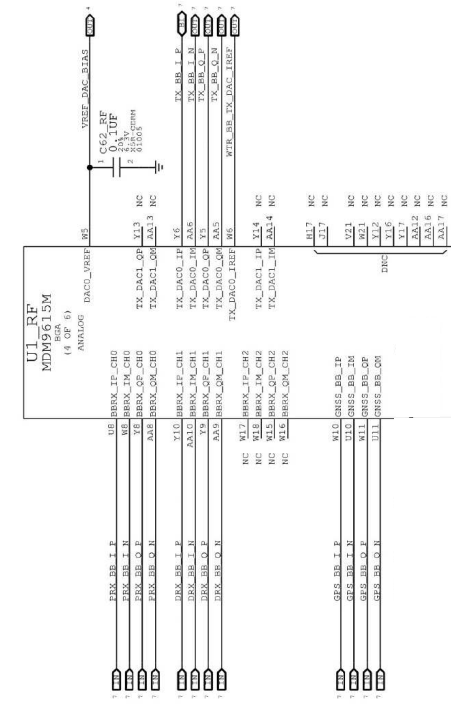
AP SECTION NEEDS ITS OWN THERMISTOR PLACED NEAR THE PA'S



1						
2						
3						
4						
5						
6						
7						
8						

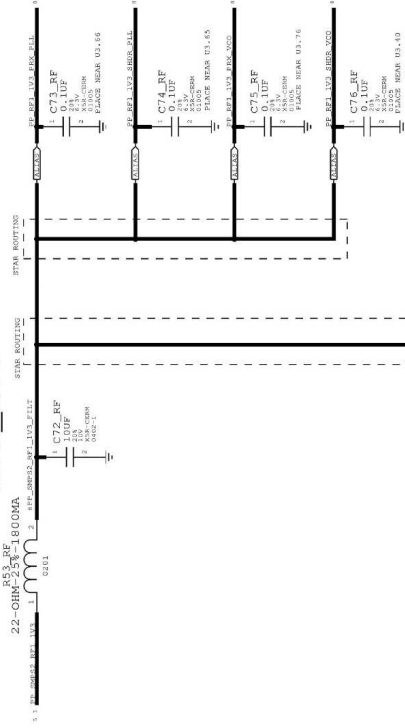


BASEBAND (2 OF 2)

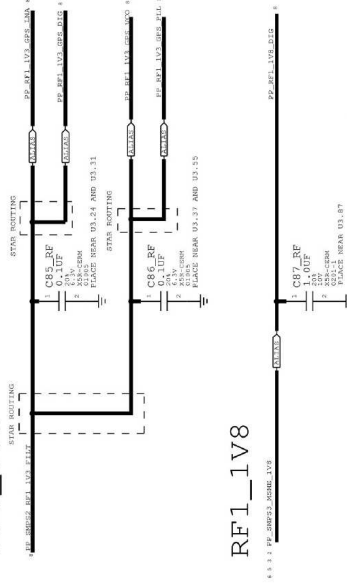


RF TRANSCEIVER (2 OF 2)

RF1_1V3



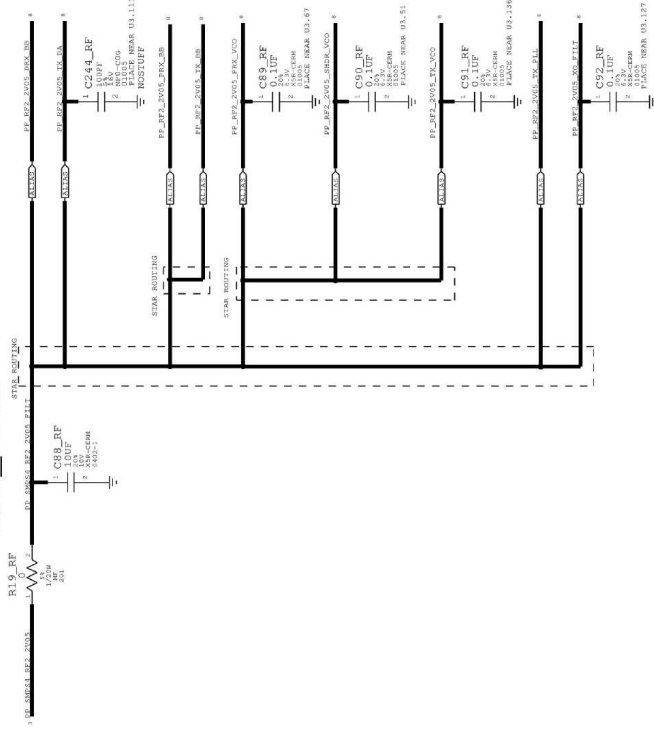
RF1_1V3



RF1_1V8



RF2_2V05



TRANSCEIVER POWER CONNECTIONS

U3_RF

WTR1605

DR

DR

DR

DR

DR

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DR

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DR

RX MATCHING

The diagram illustrates a complex PCB layout for an RX MATCHING circuit. The layout is organized into several functional blocks, each with its own set of components and labels.

Top Section (Left to Right):

- Block 1:** Features a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 2:** Includes a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 3:** Contains a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 4:** Shows a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.

Bottom Section (Left to Right):

- Block 5:** Features a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 6:** Includes a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 7:** Contains a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 8:** Shows a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.

Central Section (Left to Right):

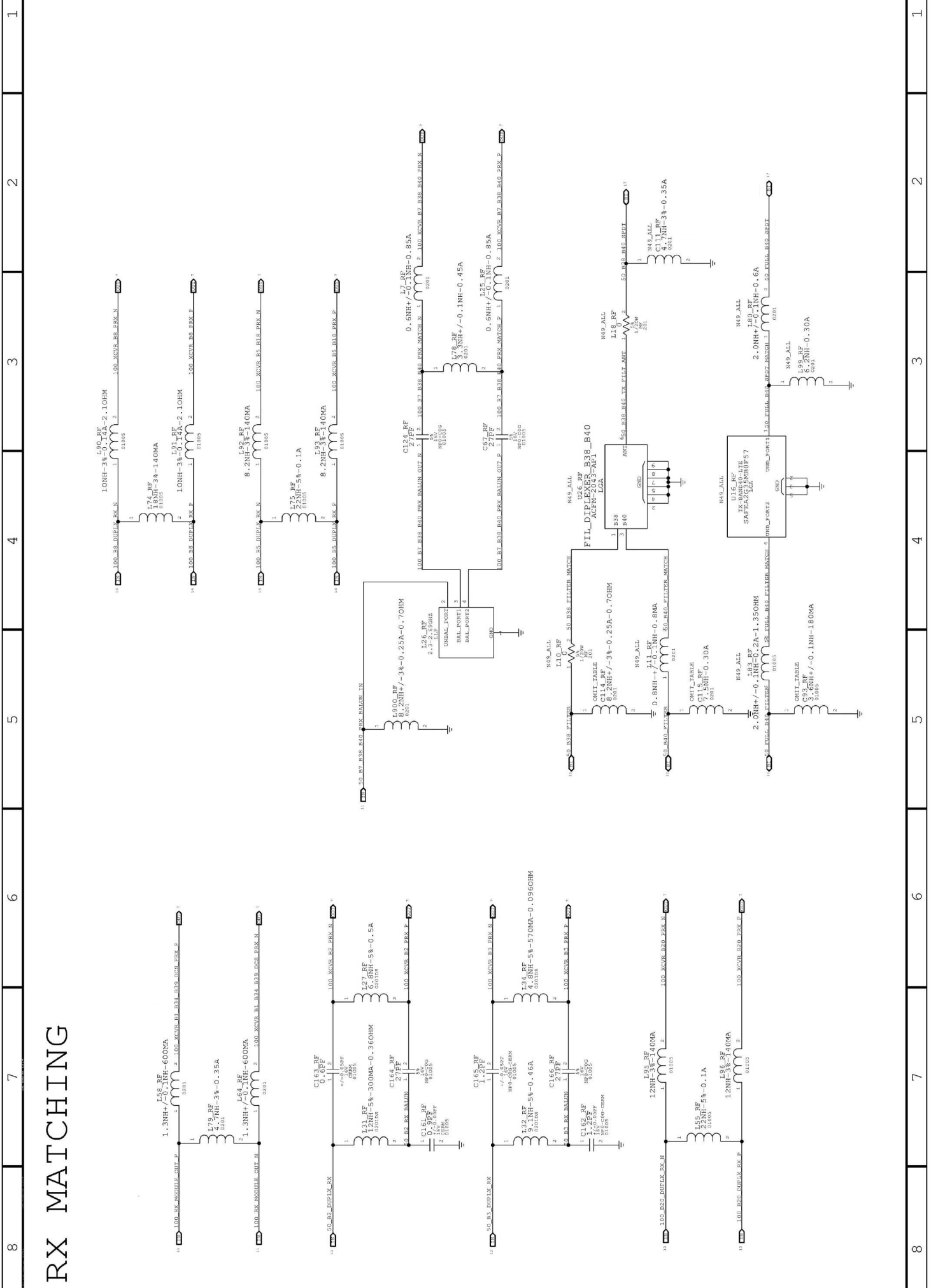
- Block 9:** Features a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 10:** Includes a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 11:** Contains a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 12:** Shows a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.

Right Section (Left to Right):

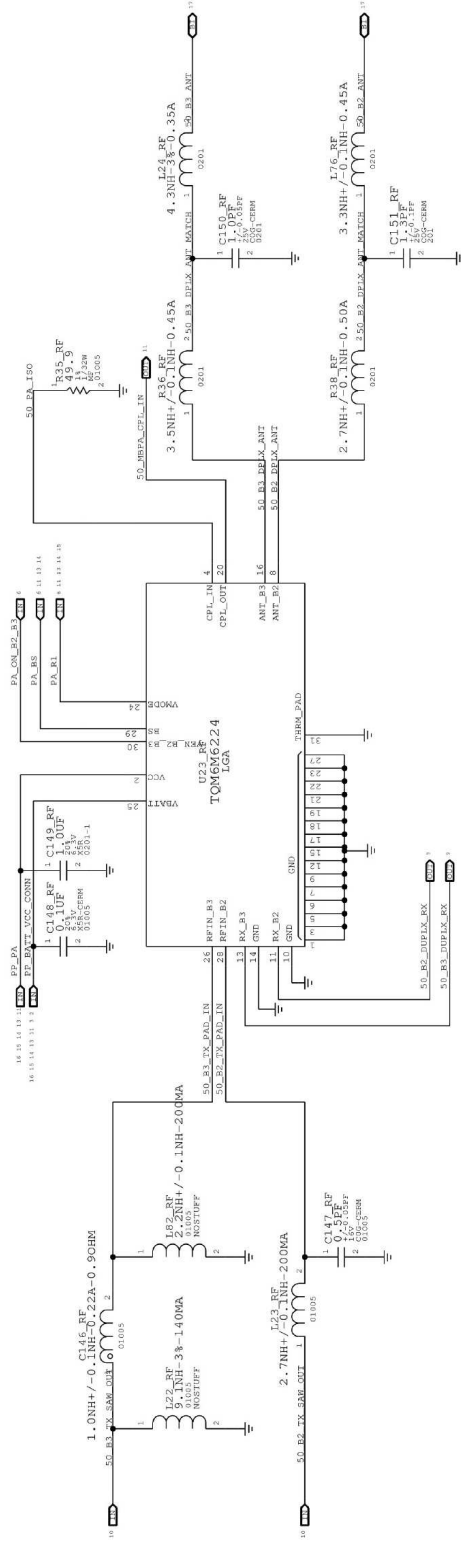
- Block 13:** Features a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 14:** Includes a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 15:** Contains a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 16:** Shows a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.

Bottom Right Section (Left to Right):

- Block 17:** Features a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 18:** Includes a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 19:** Contains a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.
- Block 20:** Shows a 1.5NHF-0.1NH-600MA component, a 100KXVR B2 PFX N connector, and a 100KXVR B2 PFX N connector.

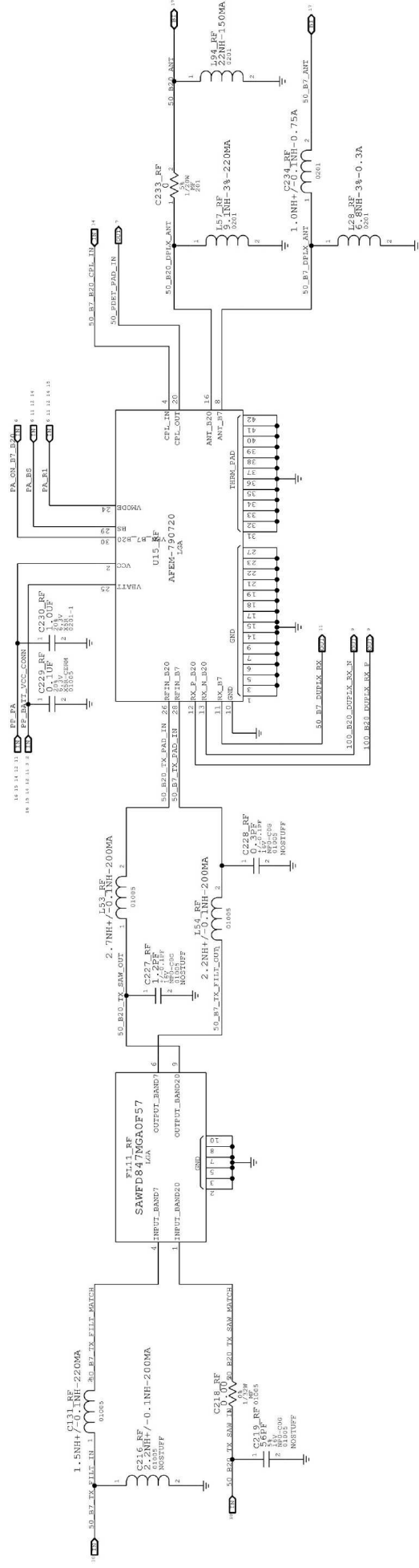


BAND 2/3 PAD



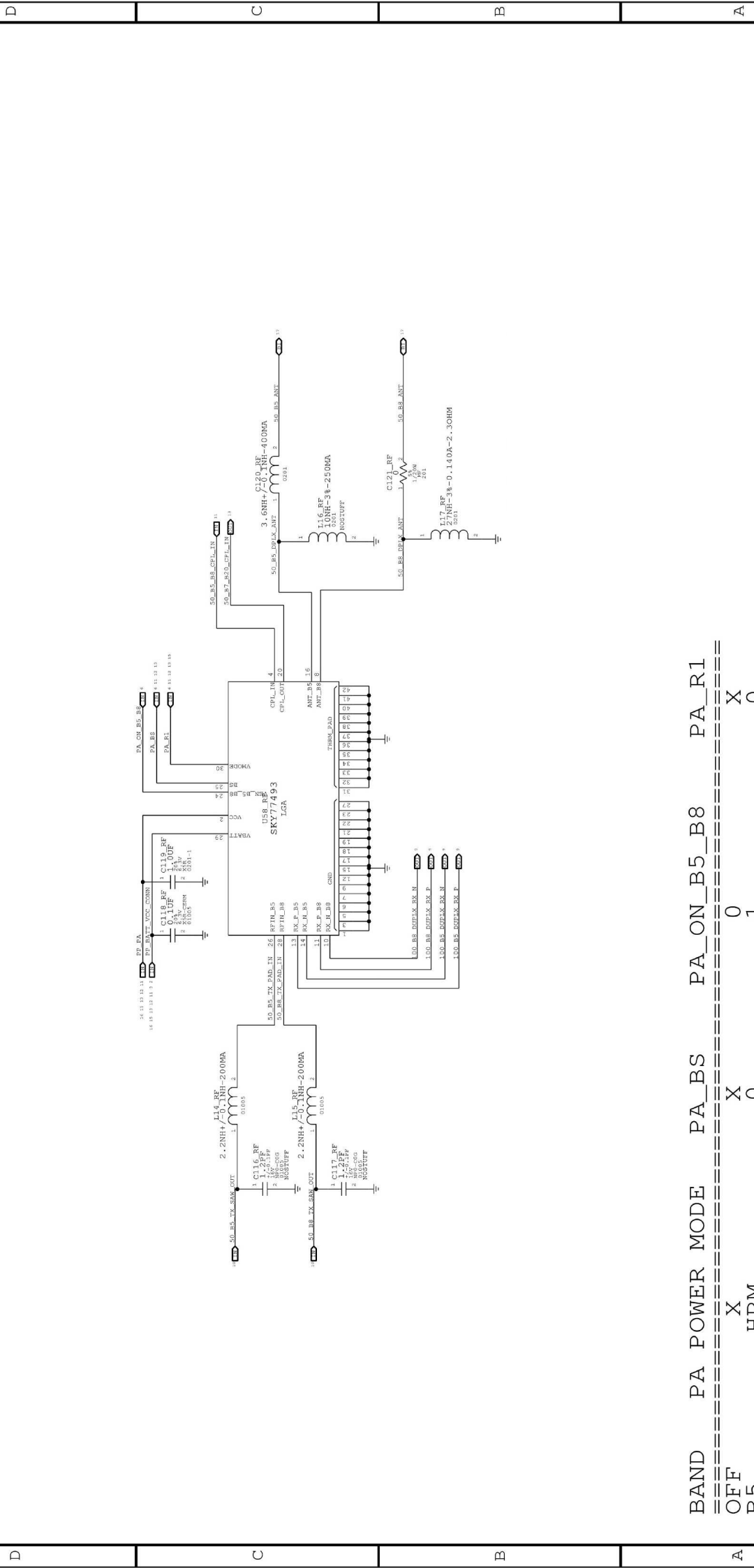
BAND	PA POWER MODE	PA_BS	PA_ON_B2_B3	PA_R1
OFF	X	X	0	X
B3	HPM	0	1	0
B3	LPM	0	1	1
B2	HPM	1	1	0
B2	LPM	1	1	1

BAND 20/7 PAD



BAND	PA POWER MODE	PA_BS	PA_ON_B20_B7	PA_R1
OFF	X	X	0	X
B20	HPM	0	1	0
B20	LPM	0	1	1
B7	HPM	1	0	0
B7	LPM	1	1	1

8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---



8		7		6		5		4		3		2		1
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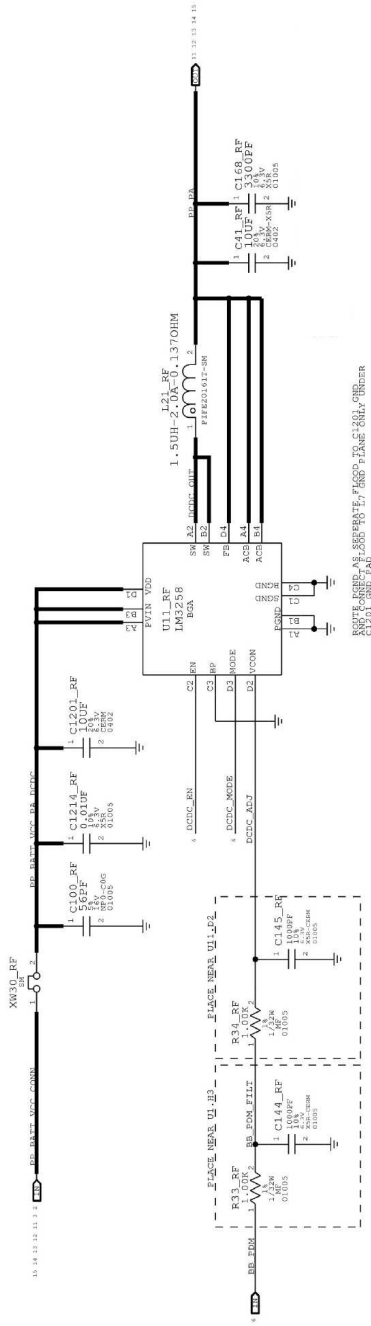
1						
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1						
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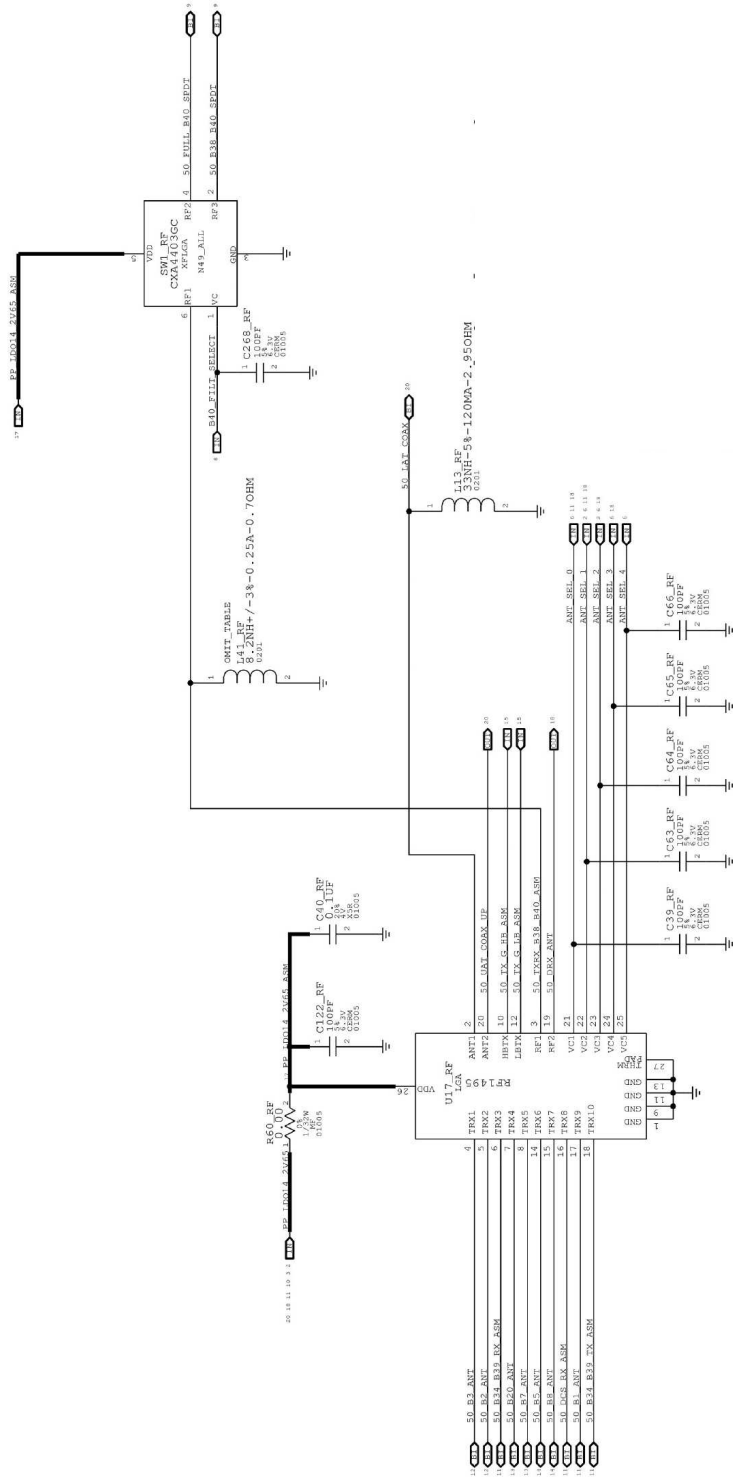
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PA DC/DC CONVERTER



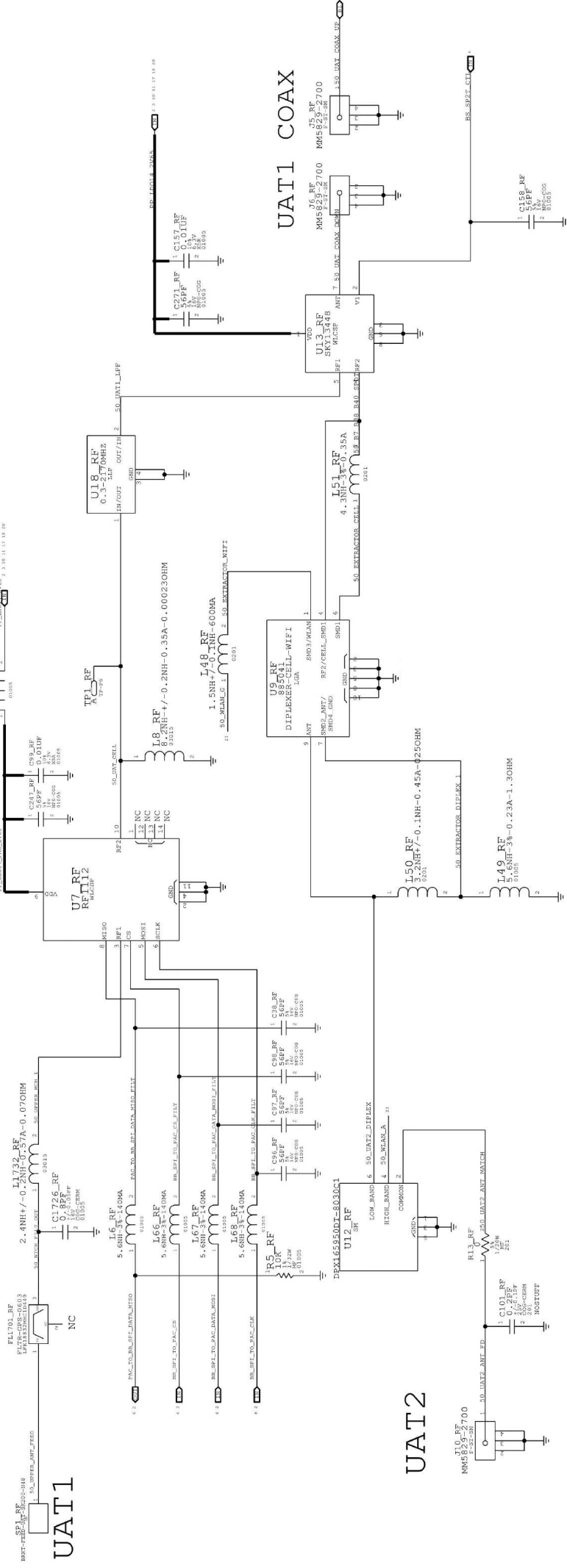
PRIMARY ASM



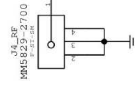
1						
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ANTENNA FEEDS



IAT



UAT2

UAT1 COAX

UAT1

9

5

4

3

2

1

ANTENNA FEEDS (2 OF 2)

9

Д

U

U

A

A

7

6

5

4

3

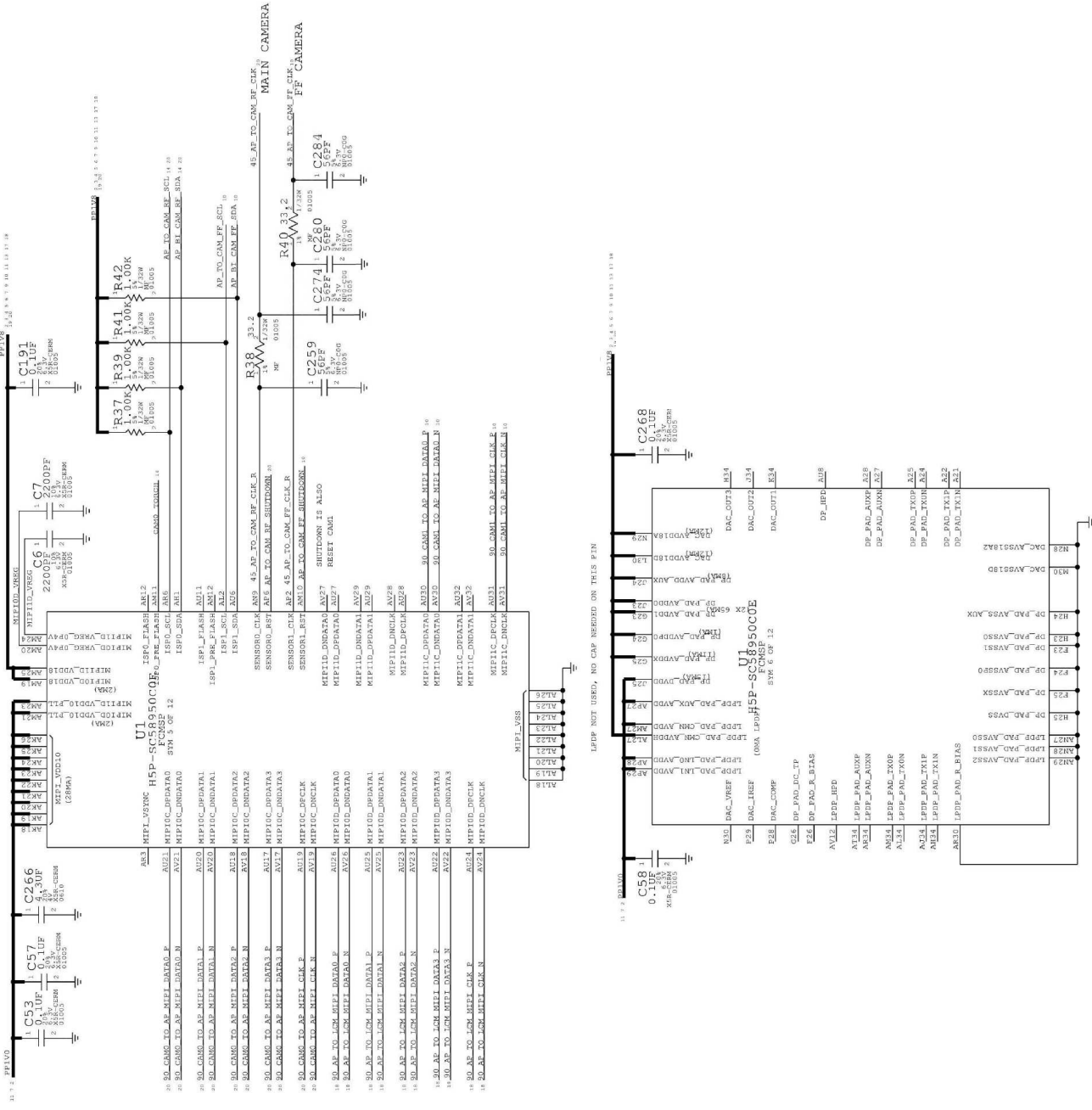
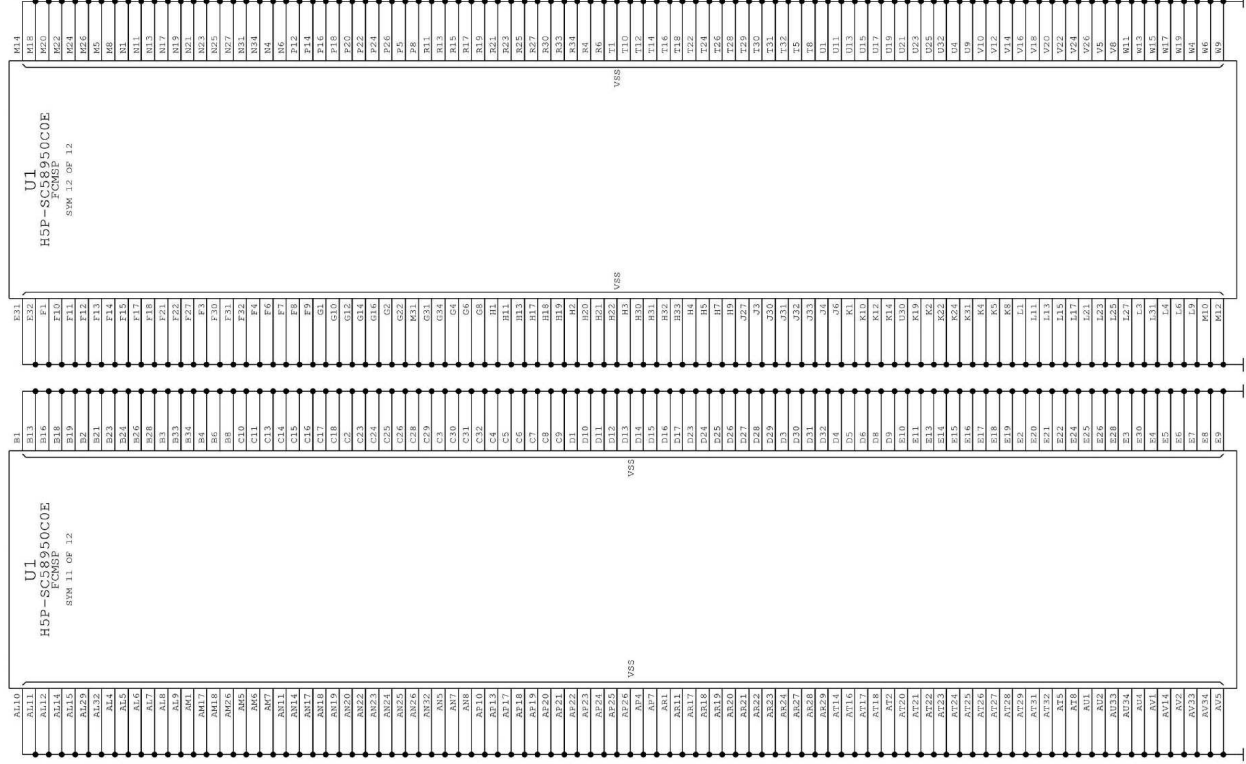
2

1

FRONT END LOGIC TABLE

BAND		ANT_SEL_0	ANT_SEL_1	ANT_SEL_2	ANT_SEL_3	ANT_SEL_4	PRX PATH	DRX PATH
GSM LB TX	LOW	HIGH	LOW	LOW	LOW	LOW	LAT	TERMINATED
GSM LB TX	LOW	HIGH	LOW	LOW	LOW	HIGH	UAT	TERMINATED
GSM HB TX	HIGH	HIGH	LOW	LOW	HIGH	LOW	LAT	TERMINATED
GSM HB TX	HIGH	HIGH	LOW	LOW	HIGH	HIGH	UAT	TERMINATED
B1	HIGH	HIGH	HIGH	HIGH	HIGH	LOW	LAT	UAT
B1	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	UAT	LAT
B2/B25, 1900RX	HIGH	LOW	LOW	LOW	HIGH	LOW	LAT	UAT
B2/B25, 1900RX	HIGH	LOW	LOW	LOW	HIGH	HIGH	UAT	LAT
B3	HIGH	HIGH	LOW	LOW	LOW	LOW	LAT	UAT
B3	HIGH	HIGH	LOW	LOW	LOW	HIGH	UAT	LAT
B5/B6/B18, 850RX	HIGH	LOW	LOW	LOW	LOW	LOW	LAT	UAT
B5/B6/B18, 850RX	HIGH	LOW	LOW	LOW	LOW	HIGH	UAT	LAT
B20	HIGH	LOW	HIGH	HIGH	HIGH	LOW	LAT	UAT
B20	HIGH	LOW	HIGH	HIGH	HIGH	HIGH	UAT	LAT
B34/B39 TX	LOW	LOW	HIGH	HIGH	HIGH	LOW	LAT	TERMINATED
B34/B39 TX	LOW	LOW	HIGH	HIGH	HIGH	HIGH	UAT	TERMINATED
B34 RX	LOW	LOW	LOW	LOW	HIGH	LOW	LAT	UAT
B34 RX	LOW	LOW	LOW	LOW	HIGH	HIGH	UAT	LAT
B39 RX	LOW	LOW	HIGH	HIGH	LOW	LOW	LAT	UAT
B39 RX	LOW	LOW	HIGH	HIGH	LOW	HIGH	UAT	LAT
B38/B40 TX	LOW	HIGH	HIGH	HIGH	LOW	LOW	LAT	TERMINATED
B38/B40 TX	LOW	HIGH	HIGH	HIGH	LOW	HIGH	UAT	TERMINATED
B38 RX	HIGH	LOW	HIGH	HIGH	LOW	LOW	LAT	UAT
B38 RX	HIGH	LOW	HIGH	HIGH	LOW	HIGH	UAT	LAT
B40 RX	HIGH	HIGH	HIGH	HIGH	LOW	LOW	LAT	UAT
B40 RX	HIGH	HIGH	HIGH	HIGH	LOW	HIGH	UAT	LAT
B7	LOW	HIGH	HIGH	HIGH	HIGH	LOW	LAT	UAT
B7	LOW	HIGH	HIGH	HIGH	HIGH	HIGH	UAT	LAT
B8, GSM900 RX	LOW	HIGH	LOW	LOW	HIGH	LOW	LAT	UAT
B8, GSM900 RX	LOW	HIGH	LOW	LOW	HIGH	HIGH	UAT	LAT
GSM1800 RX	LOW	LOW	LOW	LOW	LOW	LOW	LAT	TERMINATED
GSM1800 RX	LOW	LOW	LOW	LOW	LOW	HIGH	UAT	TERMINATED

LAT = LOWER ANTENNA
UAT = UPPER ANTENNA



BUTTON FLEX

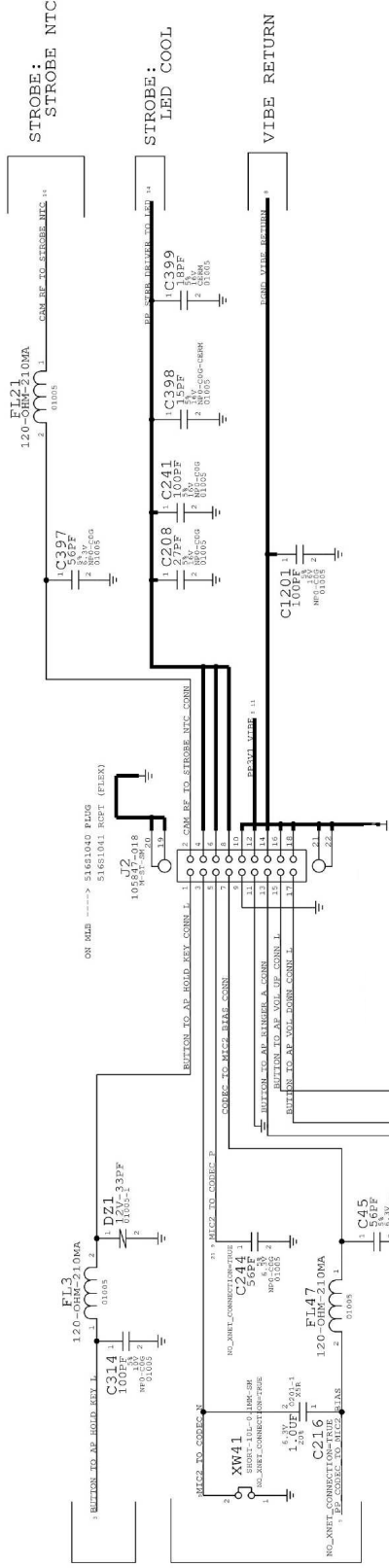
(VIBE DRIVER, BUTTONS, ANC REF MIC, STROBE, STROBE_NTC)

BUTTONS:
HOLD

MIC2 (ANC REF MIC):
MIC2/3 BIAS,
MIC2_P,_N

BUTTONS:
RINGER,
VOL_UP/DOWN

VIBE DRIVE



FOR TO REMOVE U70 AFTER EVT1 BUILD, TBD

