

X+2 SYSTEM 5.0

IMAGERS

AP_PMIC

BLK_WTR3925

RFFE_CA+DSDA

ANTENNAS

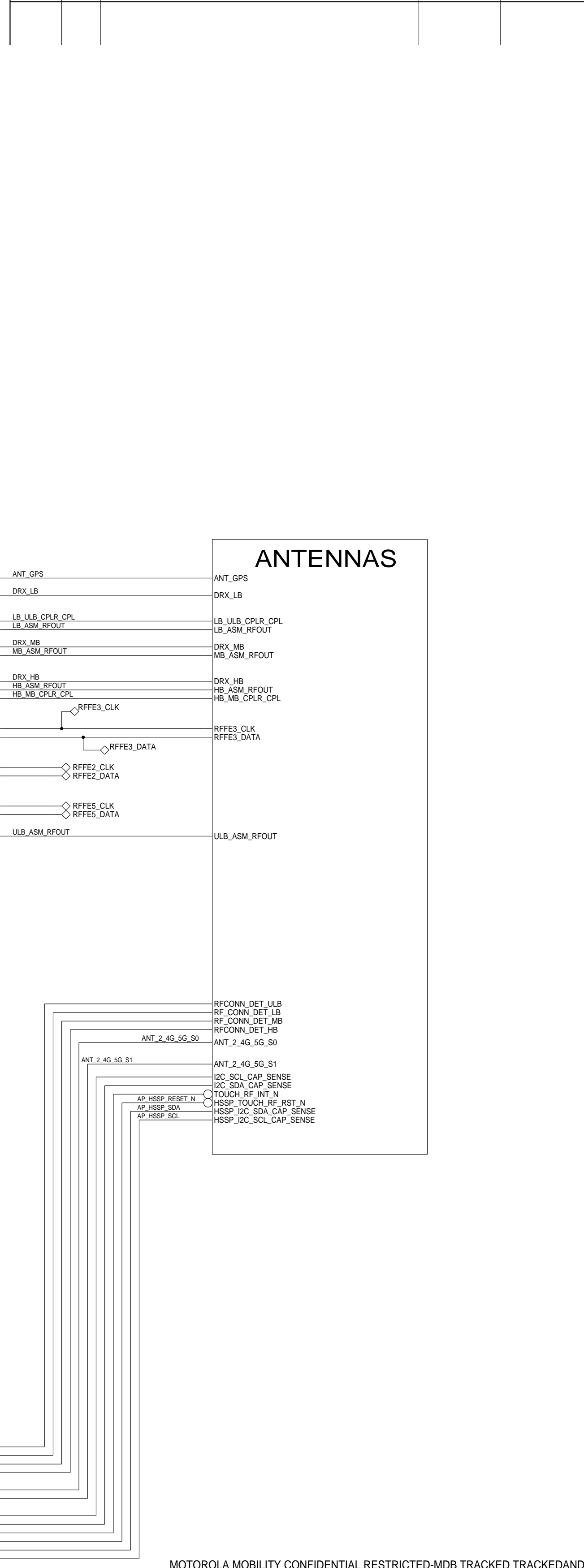
CONNECTIVITY

SLICE_IF

USER_INPUT

POWER

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



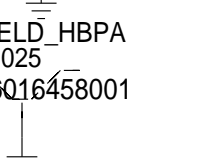
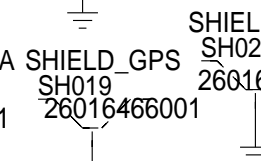
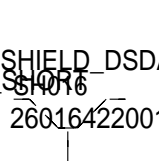
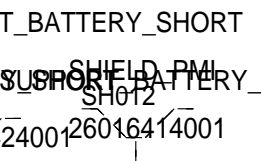
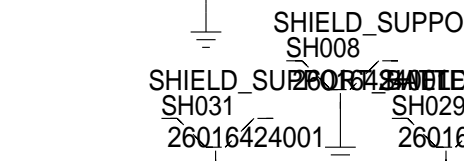
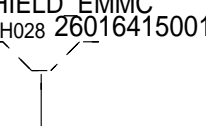
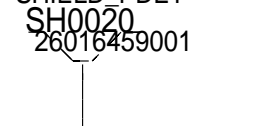
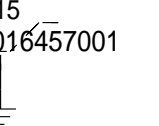
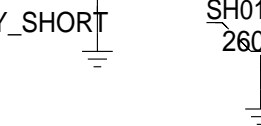
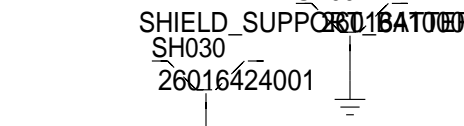
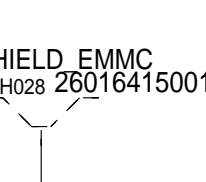
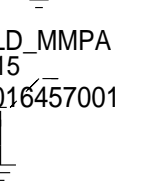
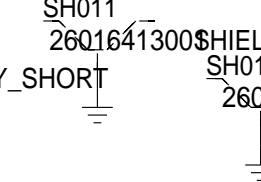
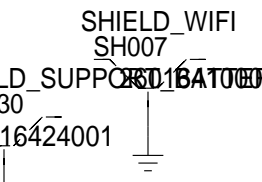
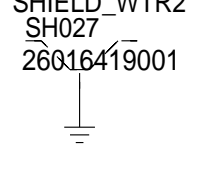
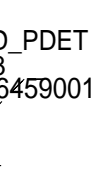
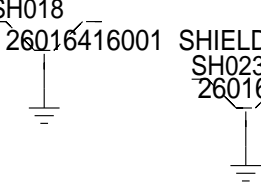
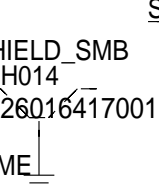
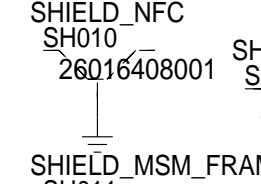
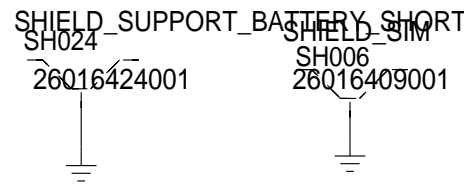
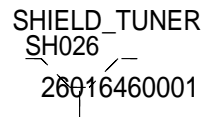
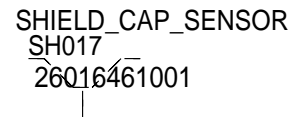
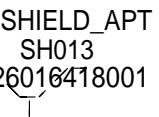
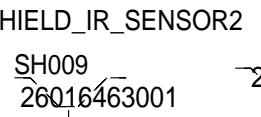
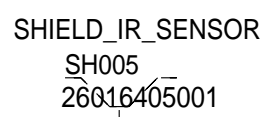
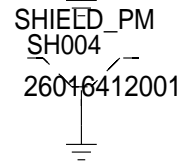
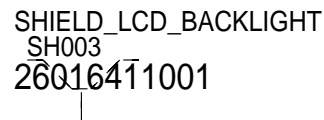
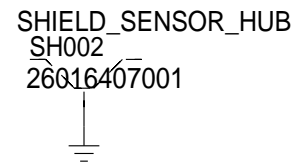
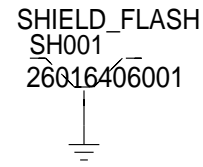
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:	MOTOROLA MOBILITY	BLOCK TITLE:	84016440001_c
LAST MODIFIED BY:	NATE CONNELL	PROJECT NAME:	84016440001_c.cpm
Wed Apr 08 11:47:13 2015		REV:	01
MOTOROLA CONFIDENTIAL RESTRICTED		CAD FILE NAME:	
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X+2 ME/SHIELDS

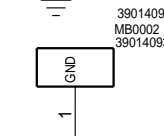
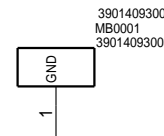
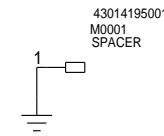
BUNKER HILL REFERENCE DESIGNATOR RANGES BY BLOCK

- 000 - 499: ANTENNA
- 500 - 599: USER INPUT
- 600 - 799: POWER
- 1000-2999: MSM8994+PM8994+PMI8994
- 3000-3199: WTR39X5

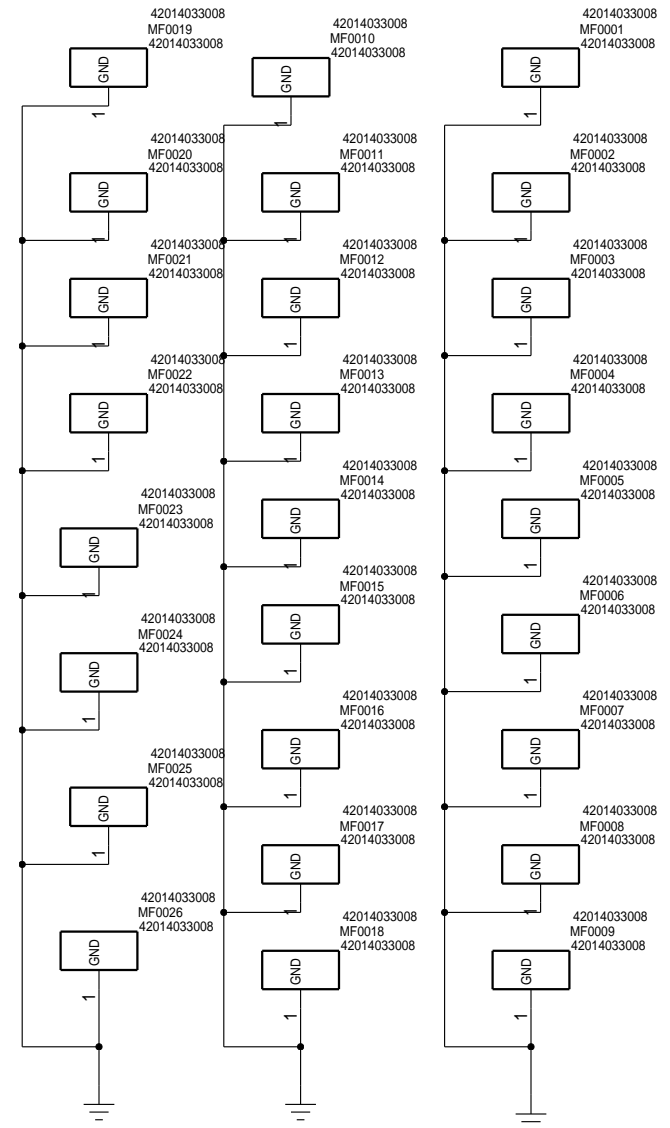
- 4000-4499: CONNECTIVITY
- 4500-4999: AUDIO FE
- 5000-5499: DISPLAY
- 5500-5999: CAMERA
- 6000-6999: XMCS
- 7000-8999: RFFE
- 9000-9999: PRODUCT-SPECIFIC (FILTERING, 100PF CAPS)



SMT NUT



GROUND BETWEEN PCB AND ENDO



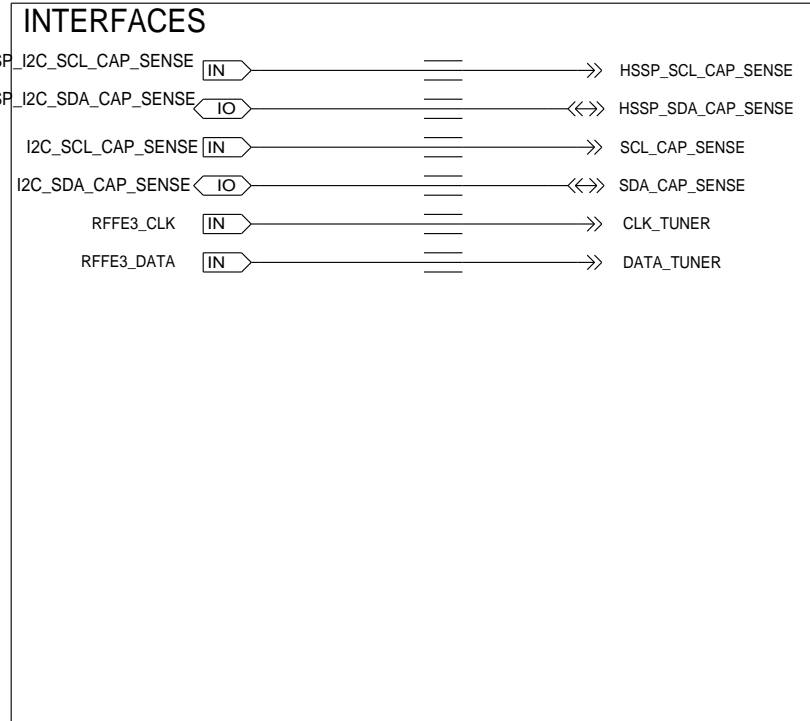
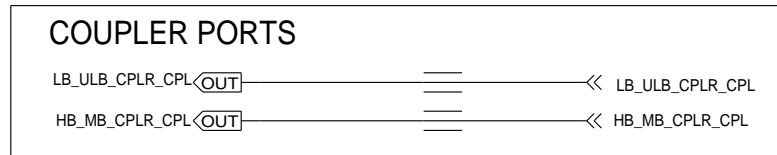
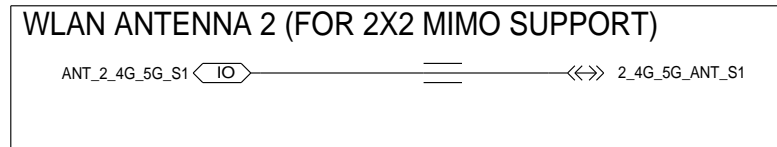
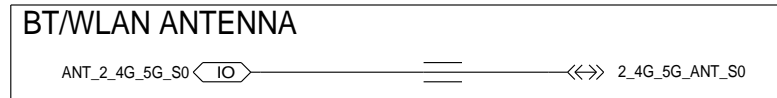
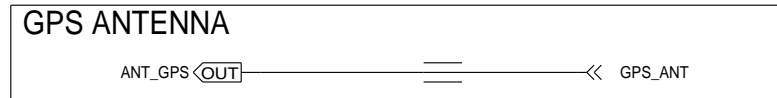
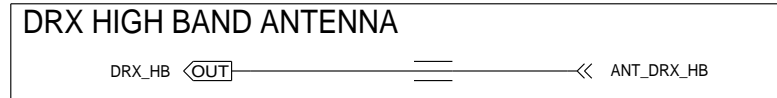
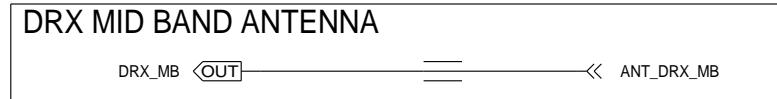
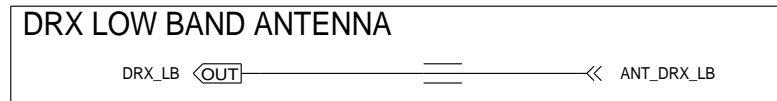
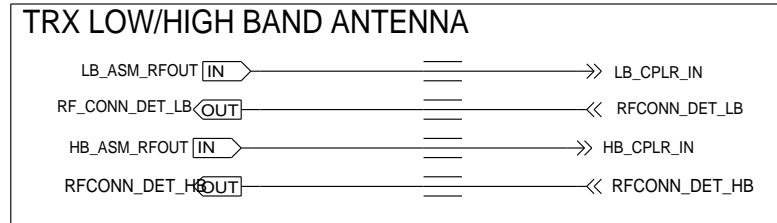
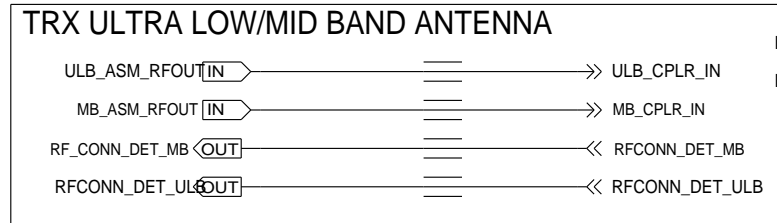
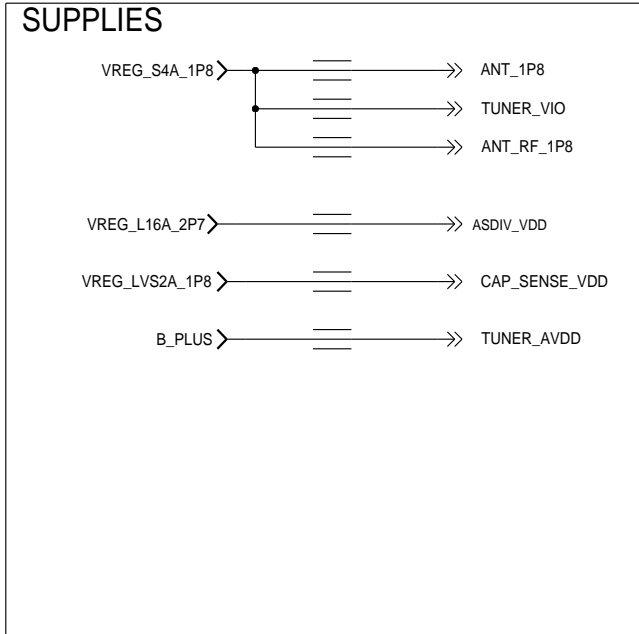
GROUND BETWEEN PCB AND METAL FLOOR

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		84016440001_c	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016440001_c.cpm	01
		CAD FILE NAME:	
		PAGE 2 OF 78	

ANT: PORTS

REFDES: 000 - 499



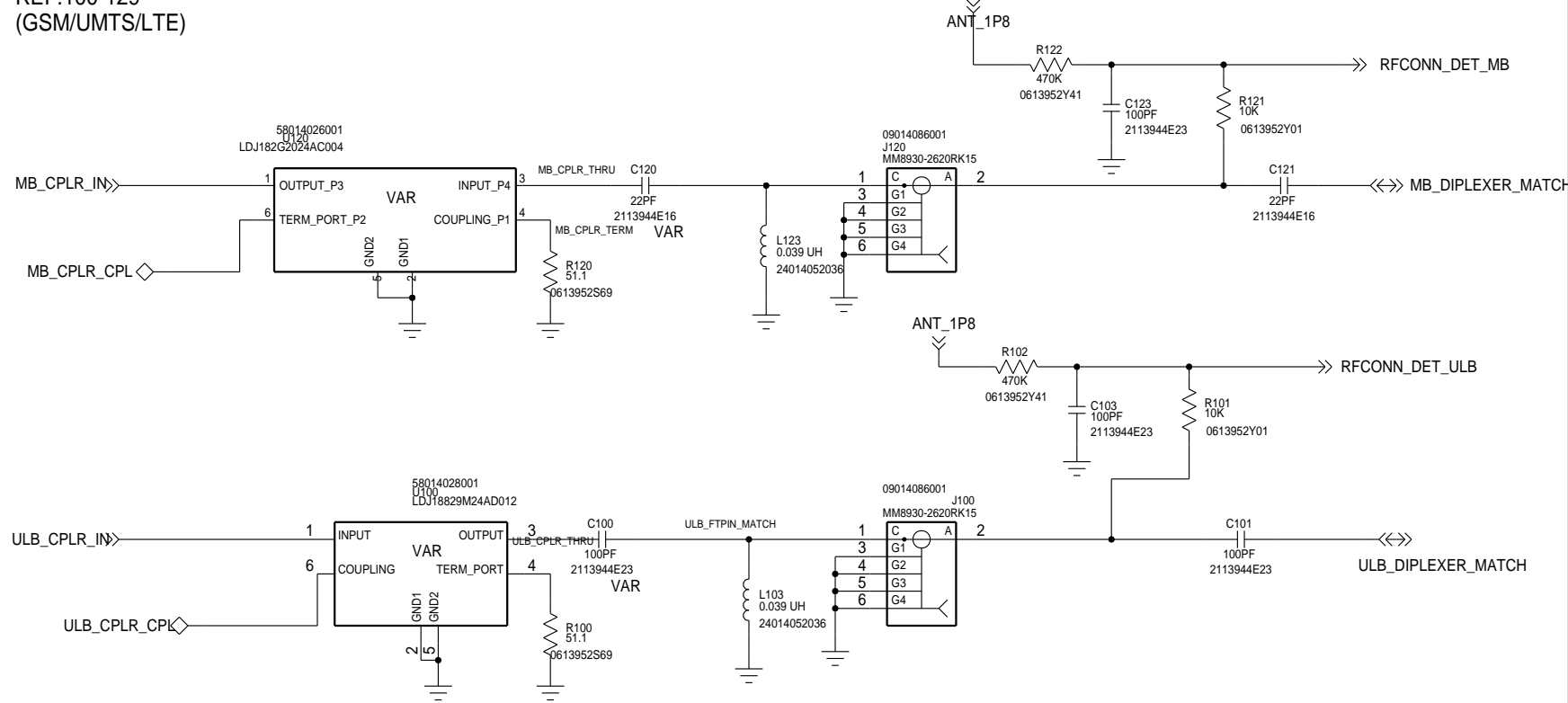
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:47 2015		antennas	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016440001_c.cpm	REV 01
		CAD FILE NAME:	
		PAGE 3 OF 78	

ANT: ANTENNAS

REFDES: 100 - 199

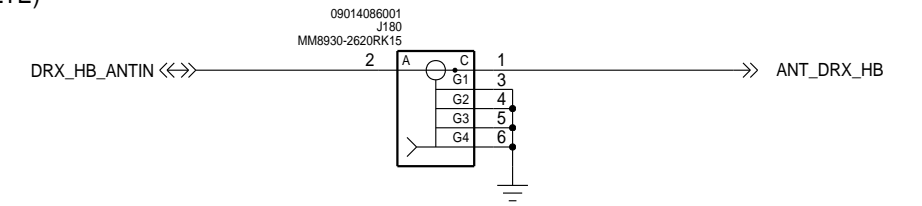
TRX ULTRA LOW/ MID BAND ANTENNA - ASM2

REF:100-129
(GSM/UMTS/LTE)



DRX HIGH BAND ANTENNA

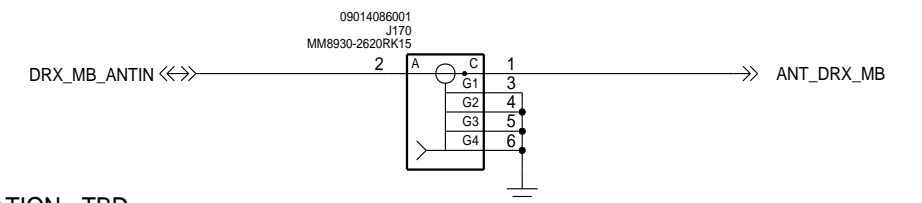
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(GSM/UMTS/LTE)



DEVICE LOCATION - TBD

DRX MID BAND ANTENNA

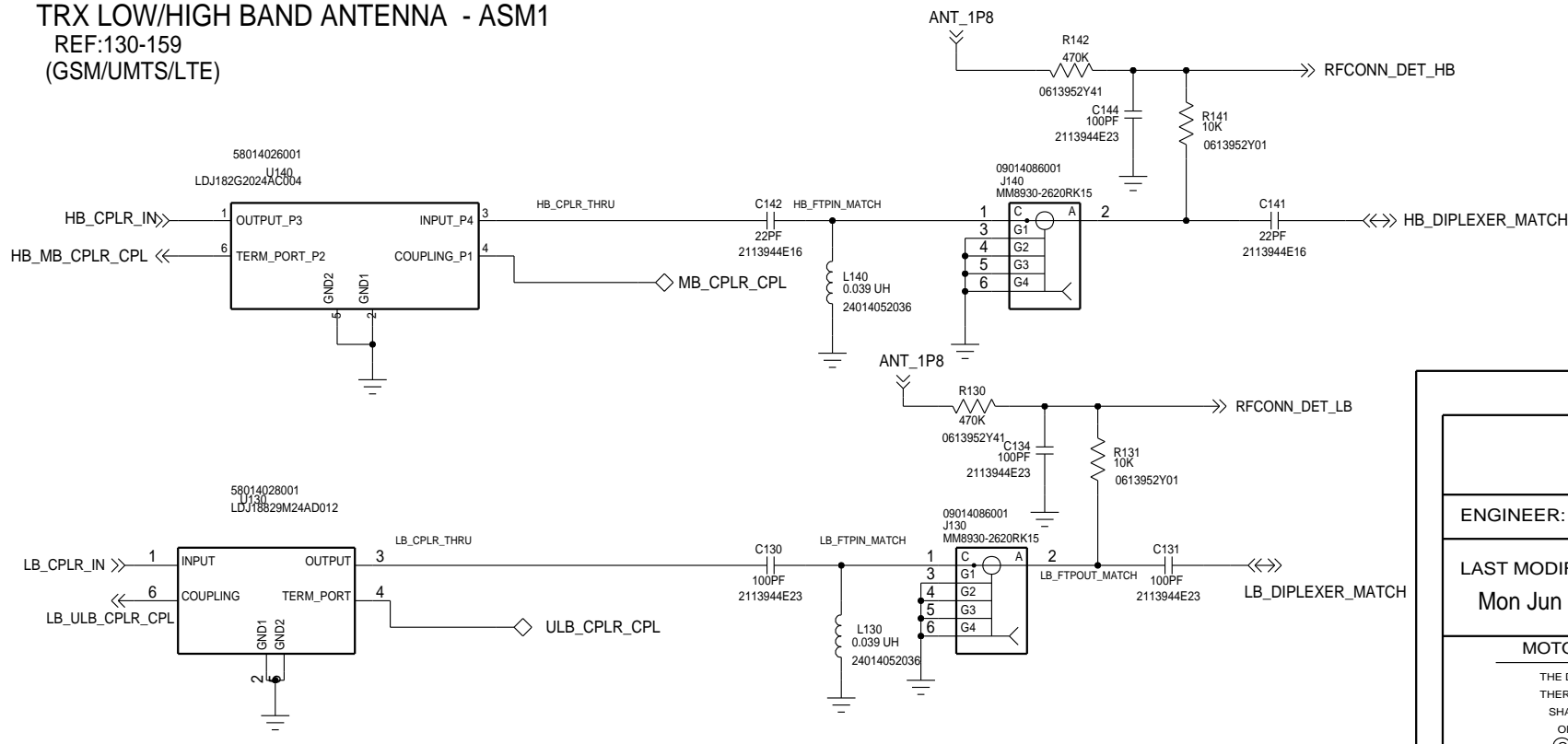
REF:170-179
(GSM/UMTS/LTE)



DEVICE LOCATION - TBD

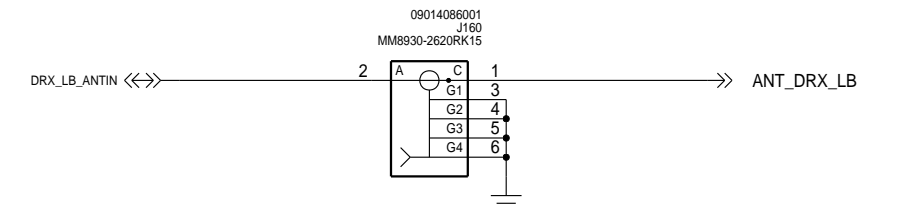
TRX LOW/HIGH BAND ANTENNA - ASM1

REF:130-159
(GSM/UMTS/LTE)



DRX LOW BAND ANTENNA

REF:160-169
(GSM/UMTS/LTE)



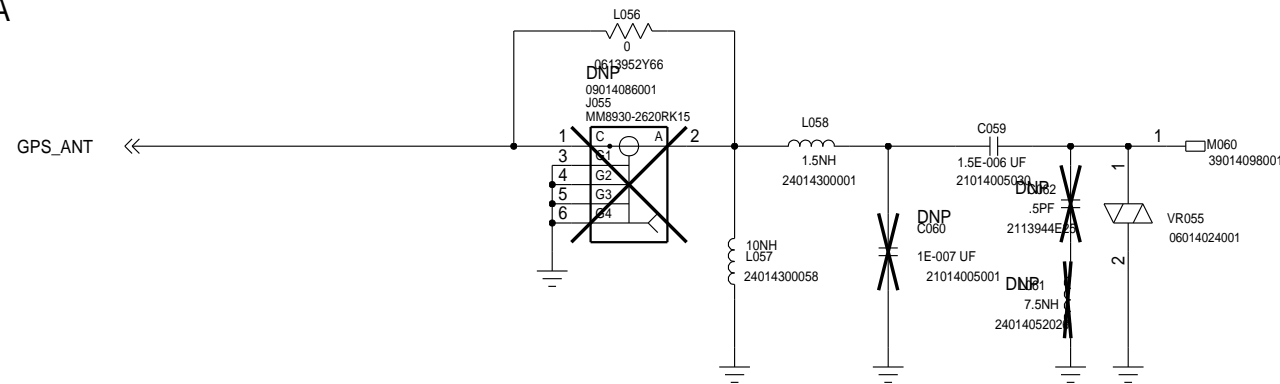
DEVICE LOCATION - TBD

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: antennas	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:48 2015		PROJECT NAME 84016440001_c.cpm	
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		CAD FILE NAME: PAGE 4 OF 78	

ANT: GPS/WLAN ANTENNAS

GPS ANTENNA REF: 055-069

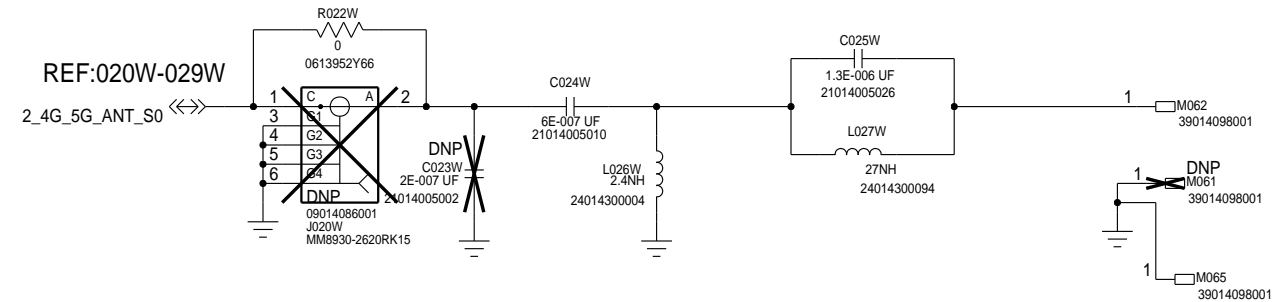


LOCATION - TBD

WLAN CHAIN1 ANTENNA

REF: 060-85

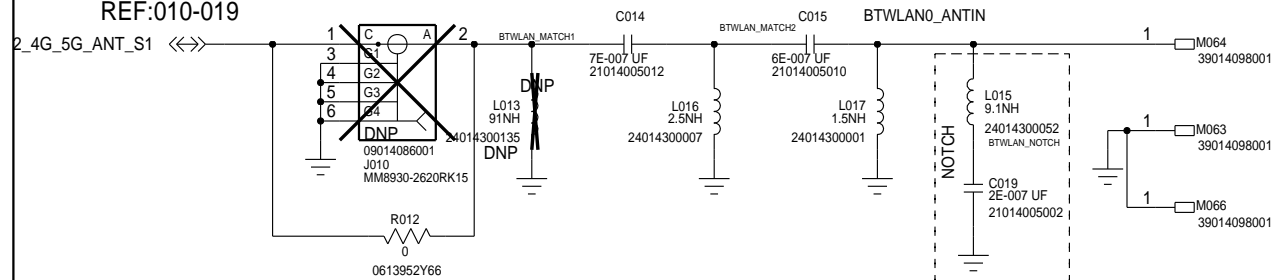
MIMO AND MAIN PATHS ARE SWAPPED BEFORE THE RF CONNECTORS J010 AND J020W



DEVICE LOCATION - TBD, APPLIES ONLY IF QCA6174 IS USED
ALL CHAIN1 ANTENNA COMPONENTS HAVE W SUFFIX FOR NOW.

BT/WLAN CHAIN0 ANTENNA REF:010-019

MIMO AND MAIN PATHS ARE SWAPPED BEFORE THE RF CONNECTORS J010 AND J020W



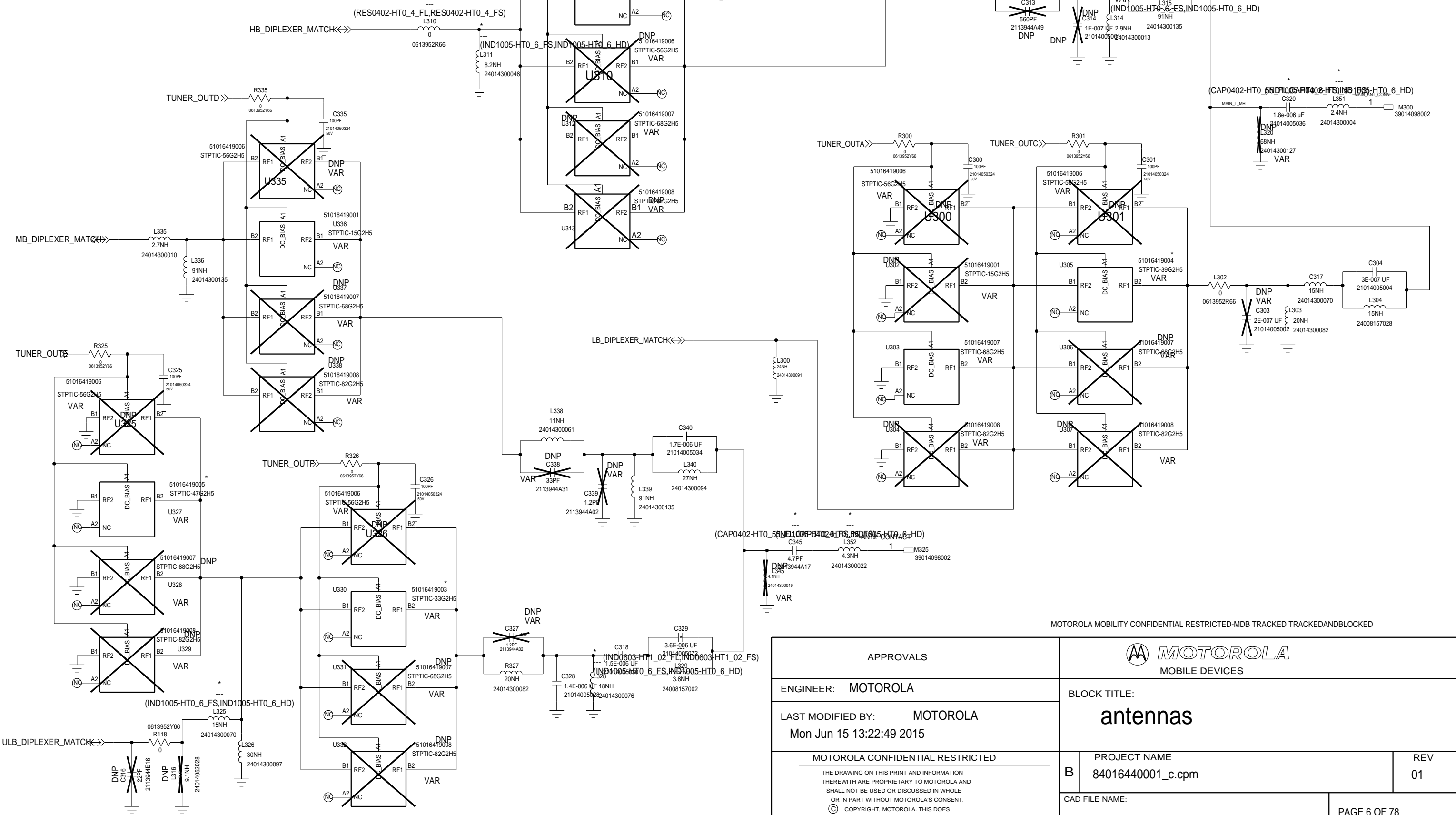
SIDE ANTENNA (ABOVE SIM CARD)

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:48:57 2015		antennas	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	PAGE 5 OF 78

ANT: MAIN DIPLEX MATCH

REFDES: 300-359



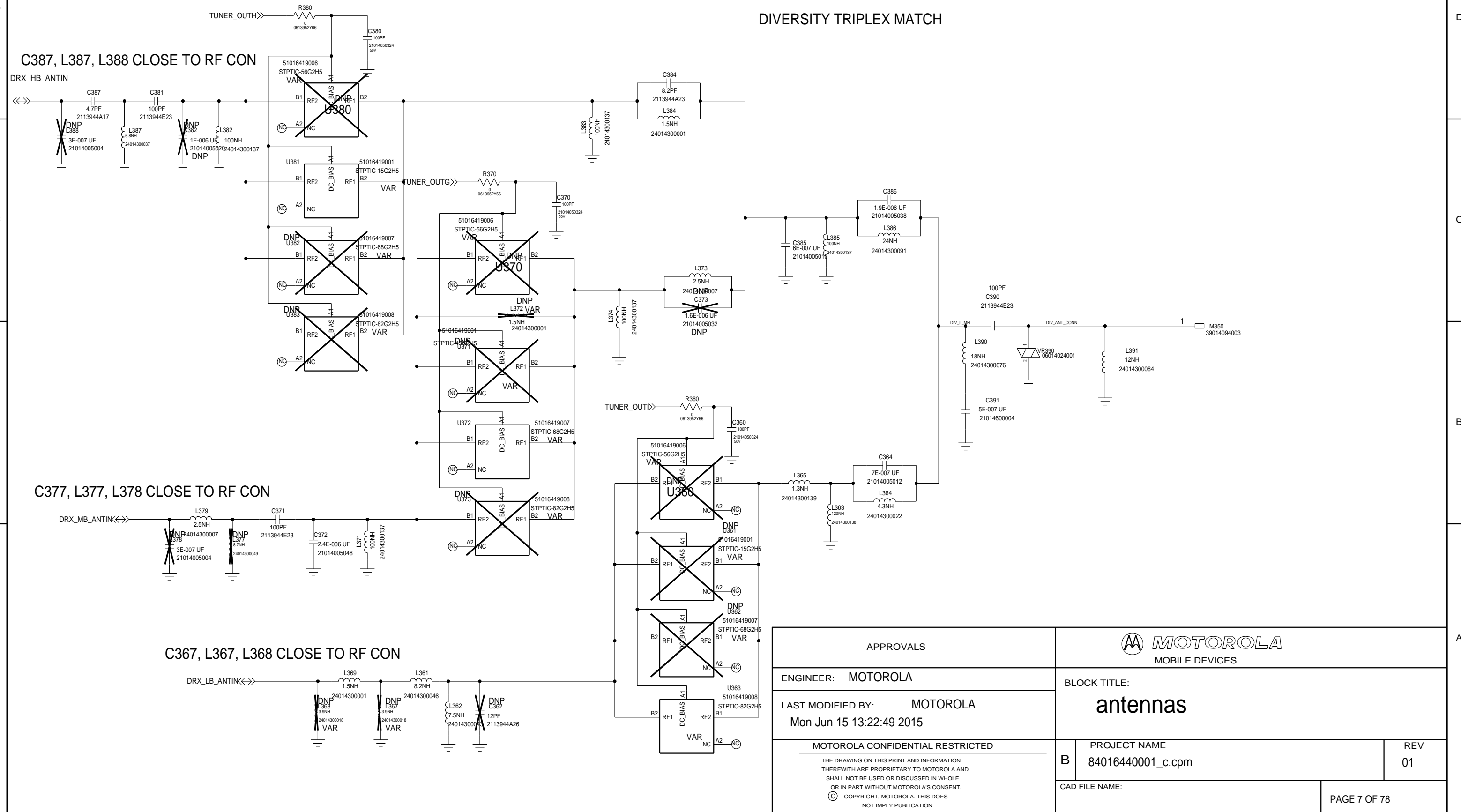
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:49 2015		antennas	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 6 OF 78	

ANT: DIV TRI MATCH

REFDES: 360-399

DIVERSITY TRIPLEX MATCH



C387, L387, L388 CLOSE TO RF CON

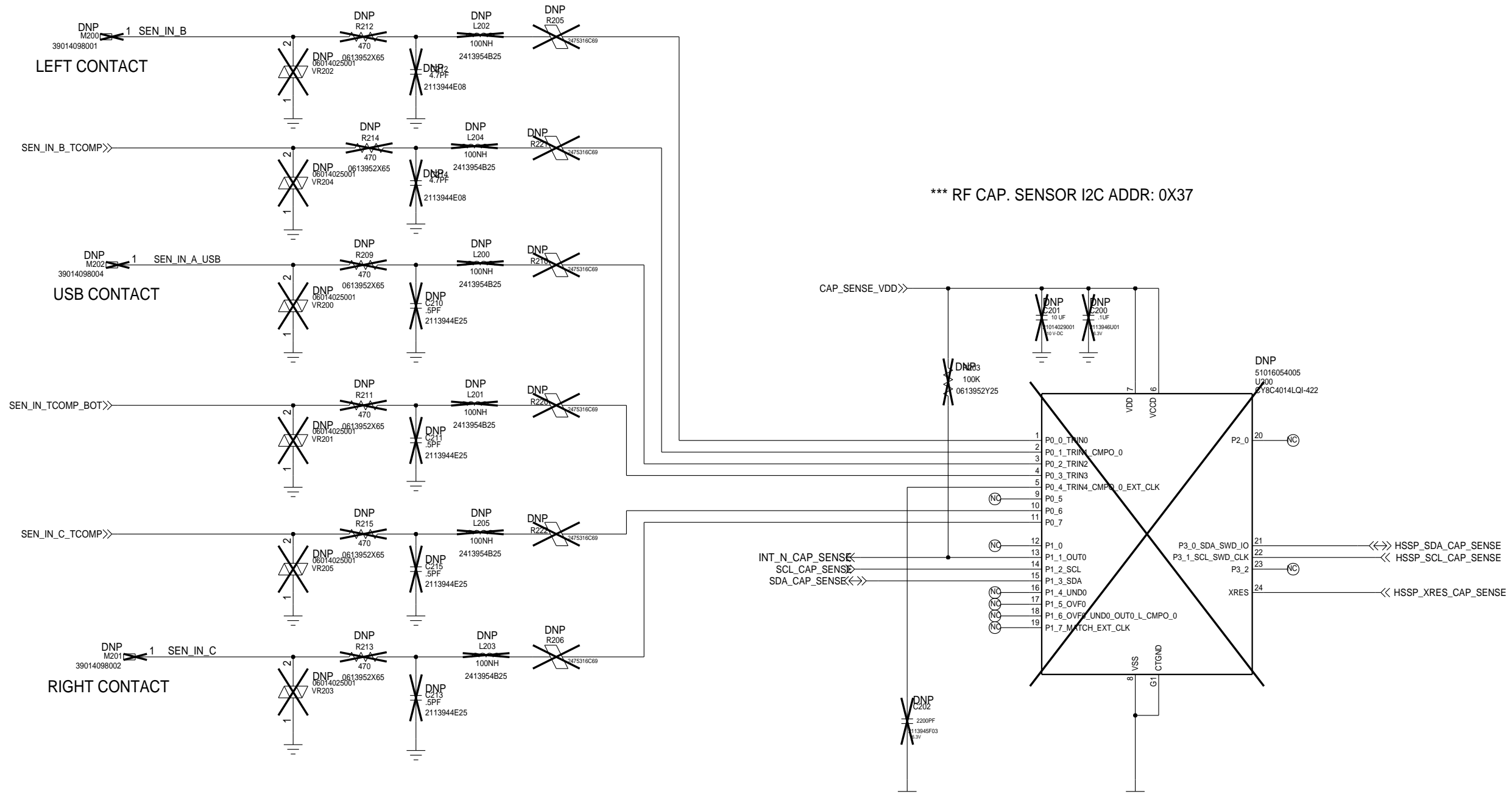
C377, L377, L378 CLOSE TO RF CON

C367, L367, L368 CLOSE TO RF CON

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: antennas	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:49 2015		PROJECT NAME 84016440001_c.cpm	
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		PAGE 7 OF 78	

ANT: CAP SENSE

REFDES: 200-299

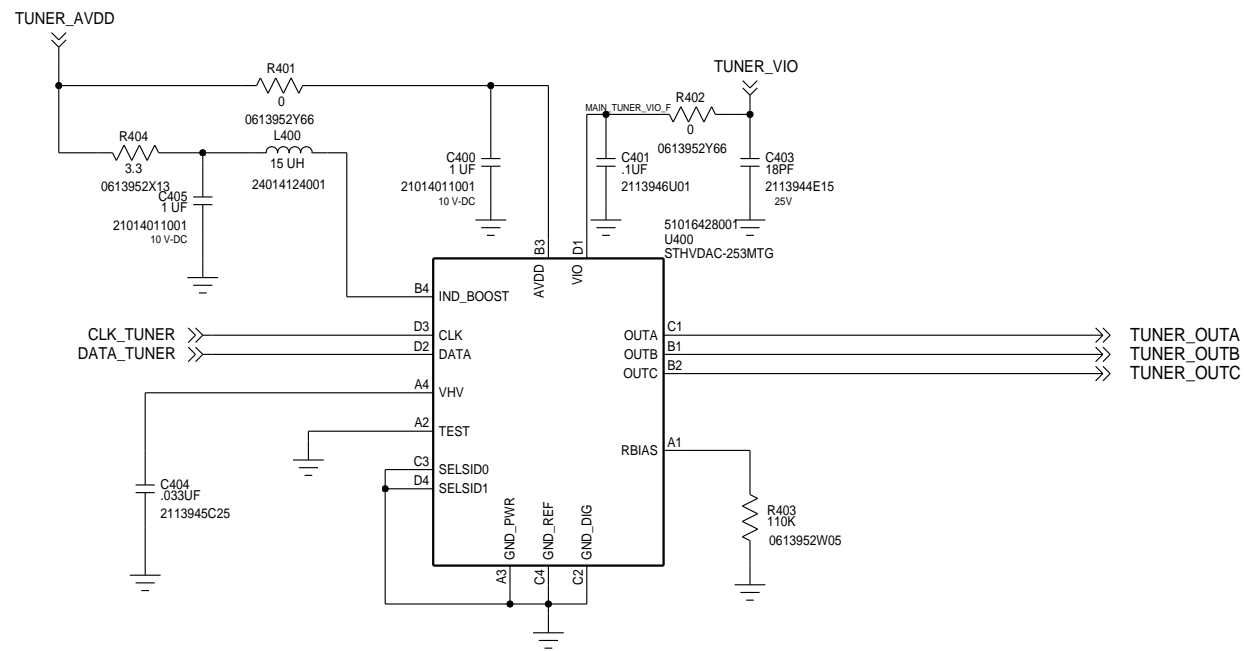


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:50 2015		antennas	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 8 OF 78	

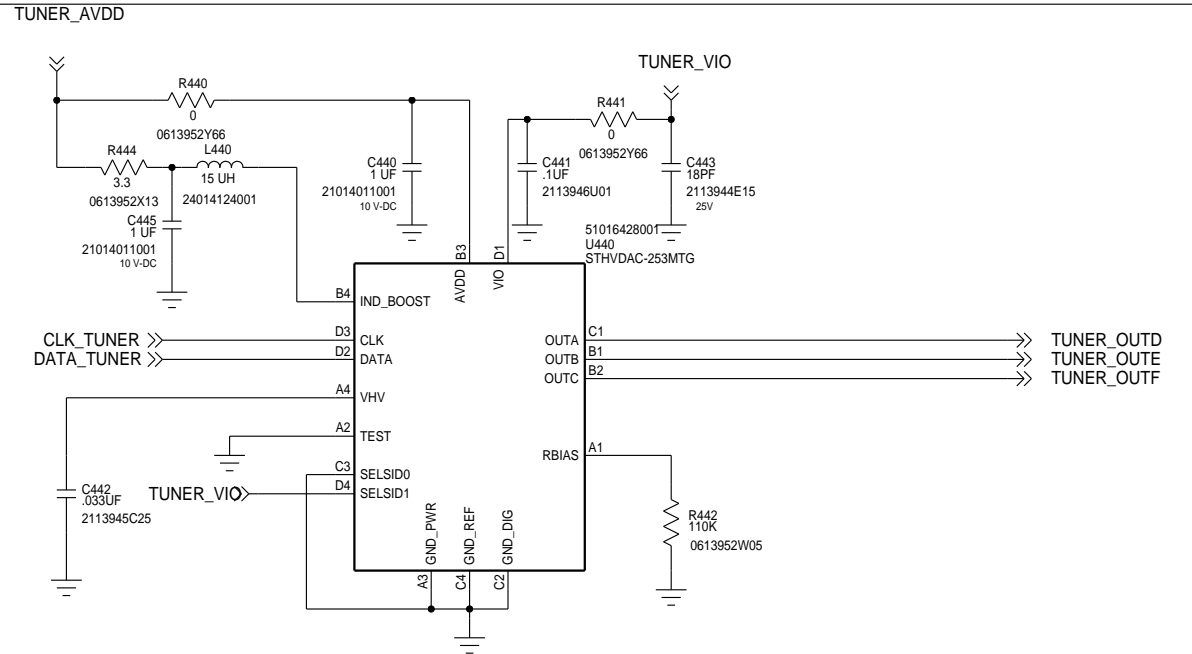
ANT: TUNERS

REFDES: 400-499

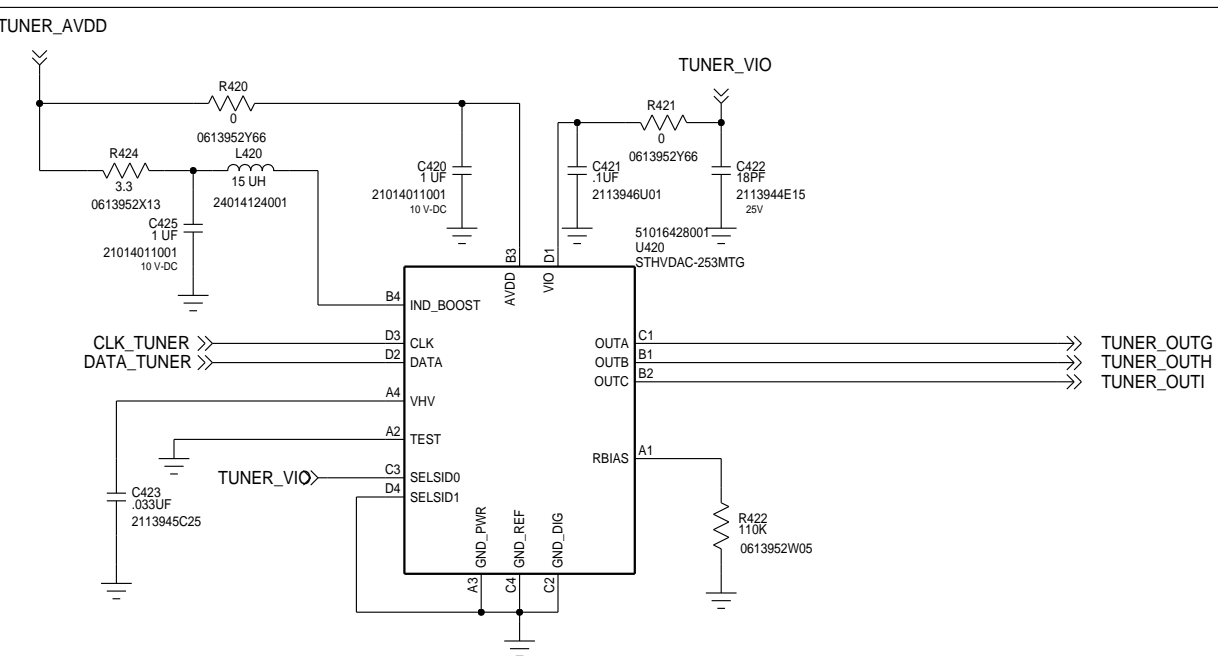
MAIN 1



MAIN 2



DIV

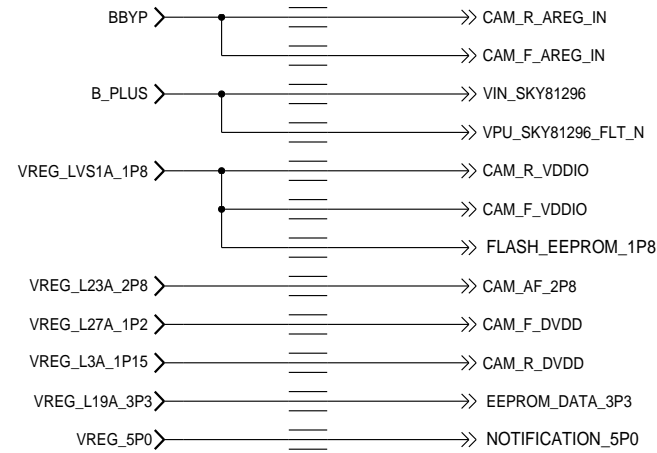


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:51 2015		antennas	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 9 OF 78	

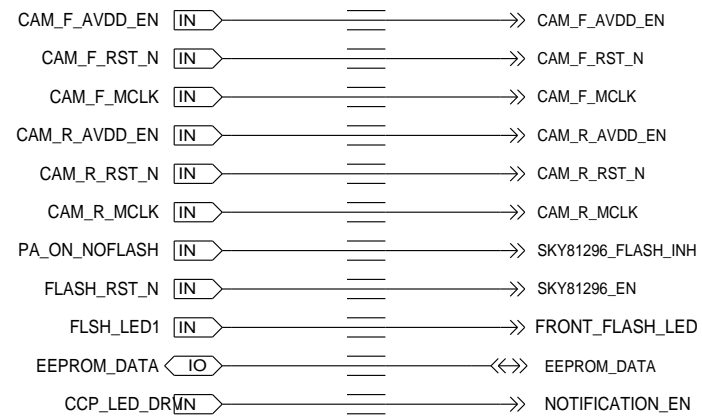
CAM: PORTS

REF 5500-5999

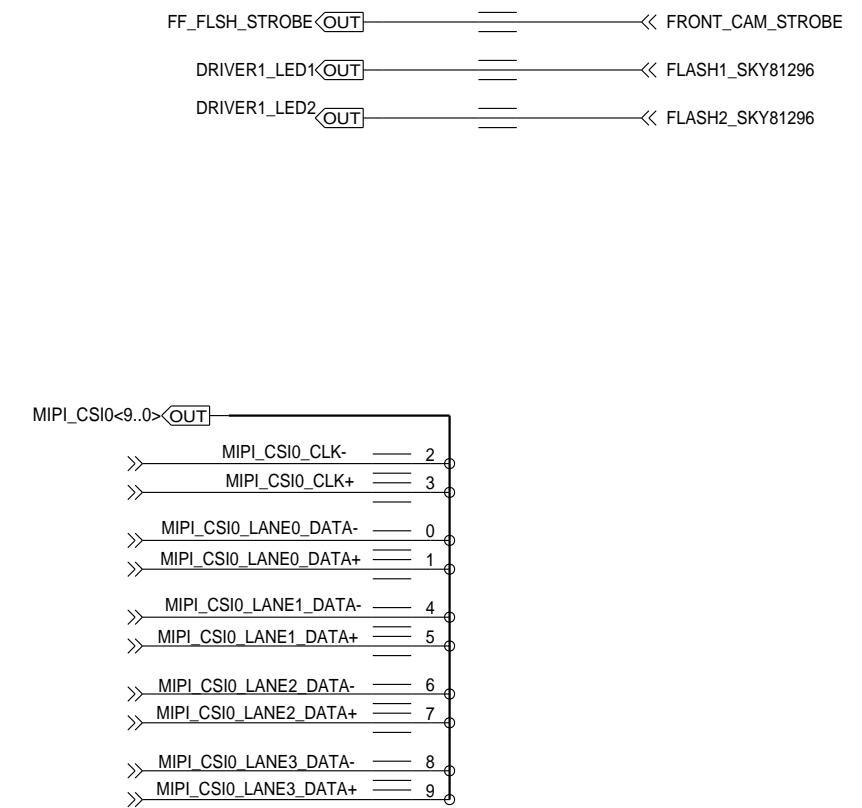
SUPPLIES



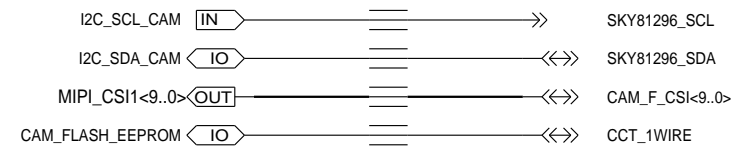
INPUTS



OUTPUTS



INTERFACES



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
Mon Jun 15 13:22:44 2015

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BLOCK TITLE:

imagers

PROJECT NAME
B 84016440001_c.cpm

REV
01

CAD FILE NAME:

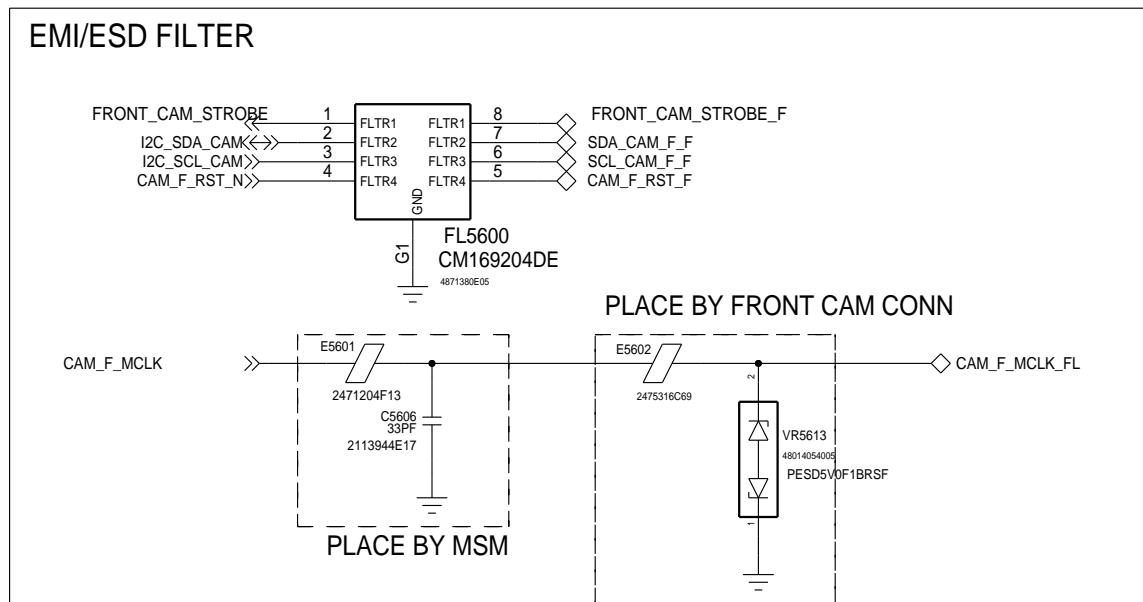
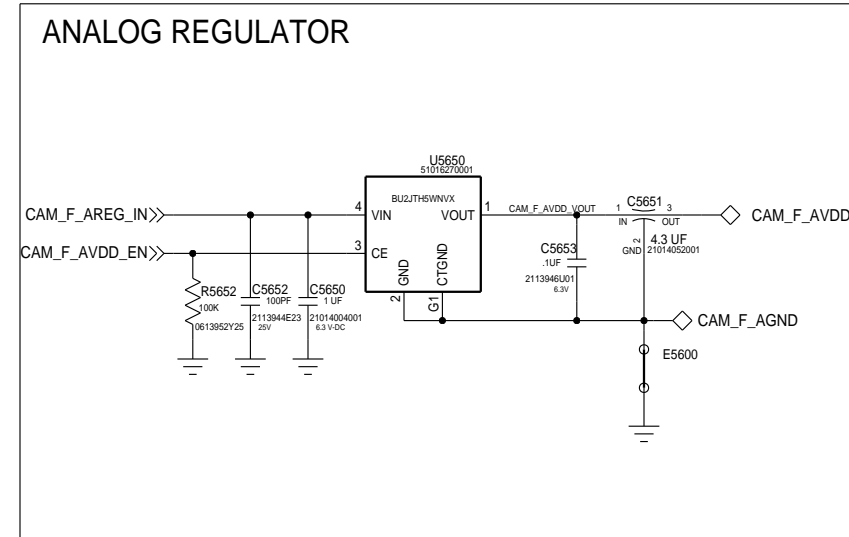
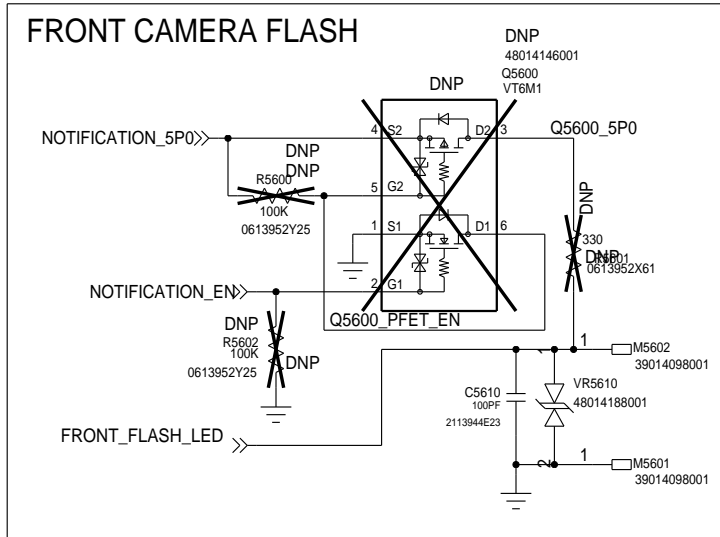
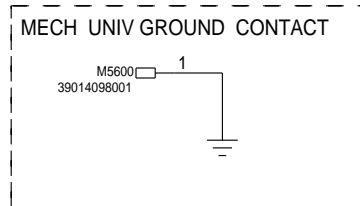
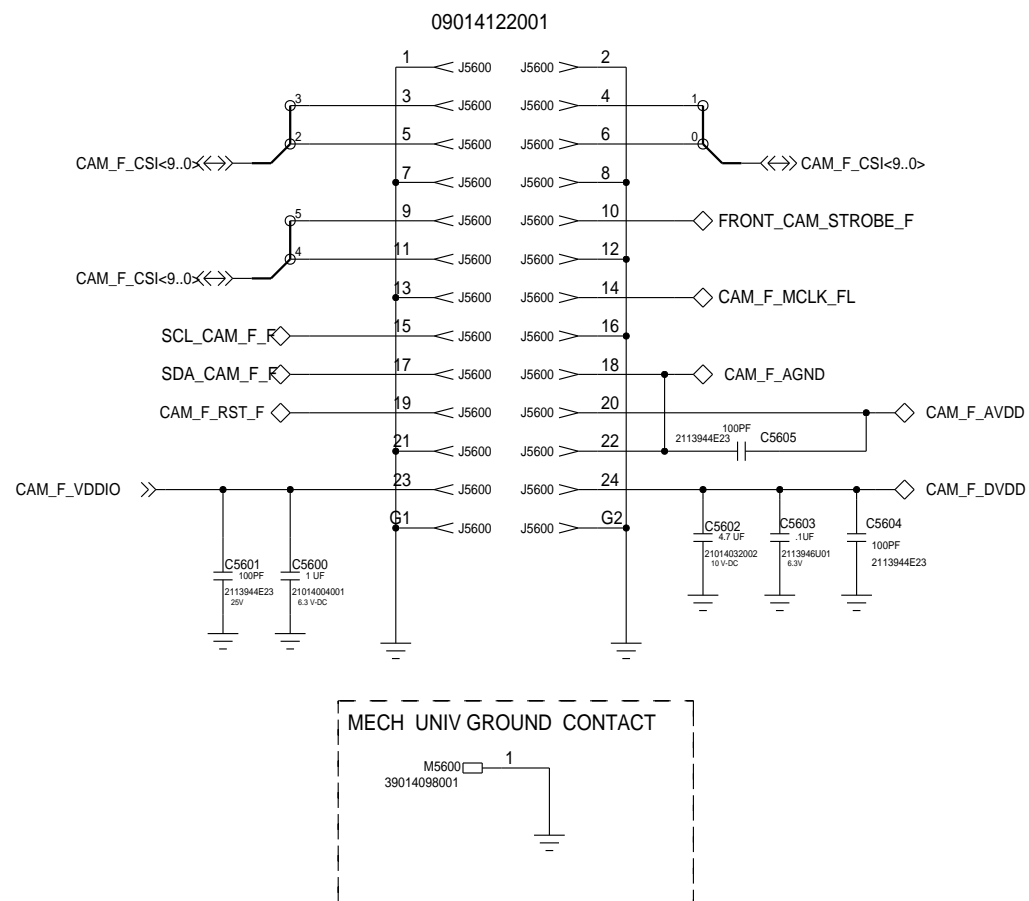
PAGE 10 OF 78

CAM: FRONT

REF 5600-5699

*** IMAGE SENSOR I2C ADD. 0X6C

MATES WITH 2871491E05



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: JOHN KRAMER		BLOCK TITLE:	
LAST MODIFIED BY: UID ELRAN Mon Jun 15 13:22:45 2015		imagers	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 11 OF 78	

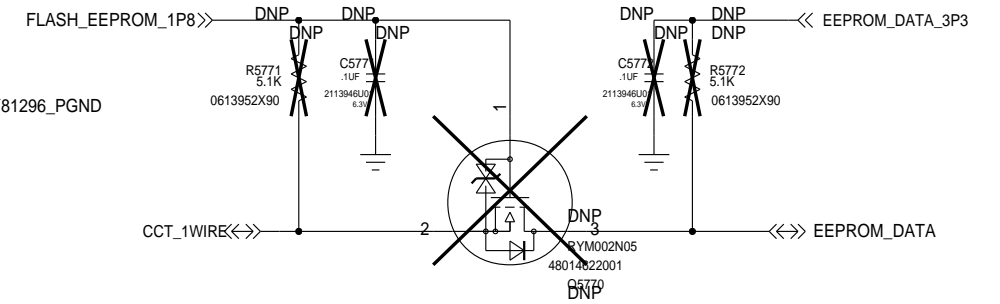
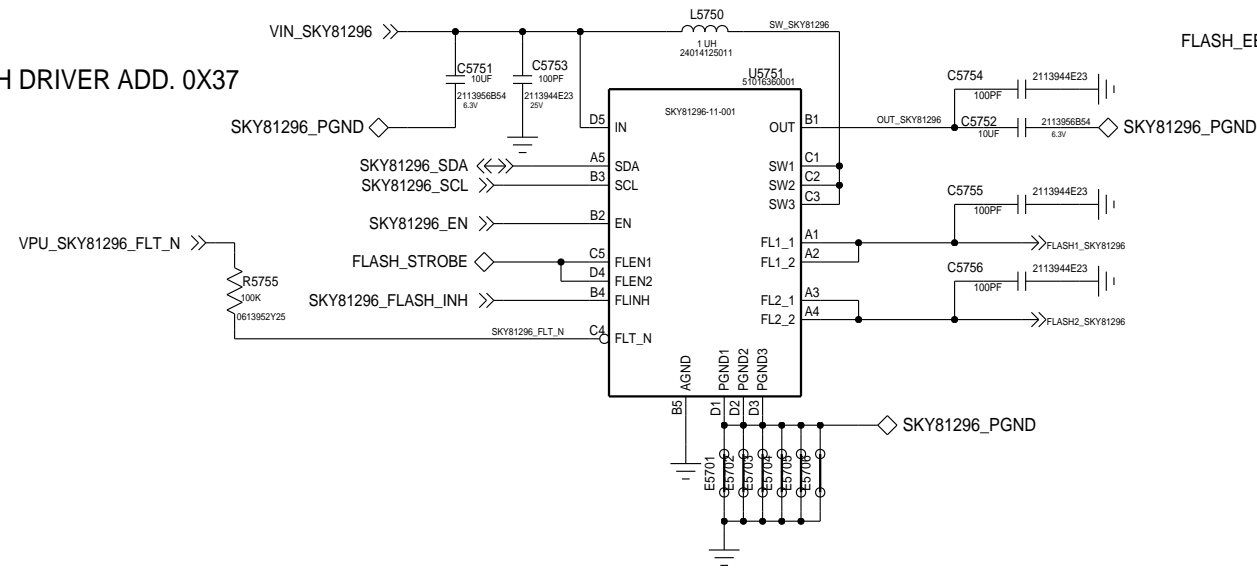
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REF:5500-5599

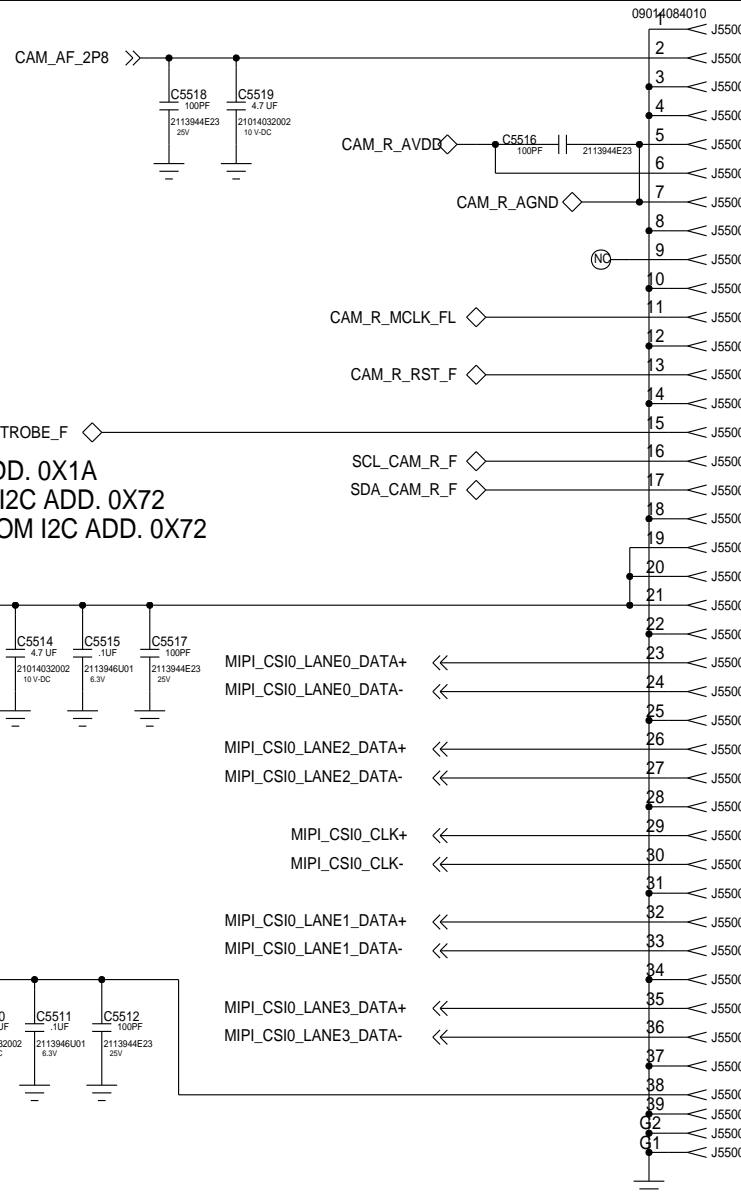
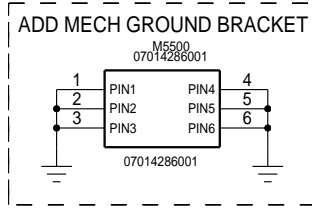
LED FLASH DRIVER

REF:5750-5799

*** FLASH DRIVER ADD. 0X37

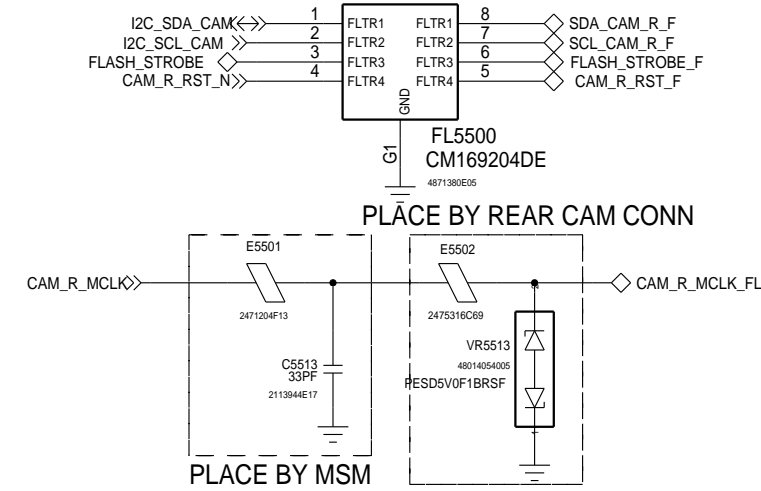


IMAGER FLEX CONNECTOR

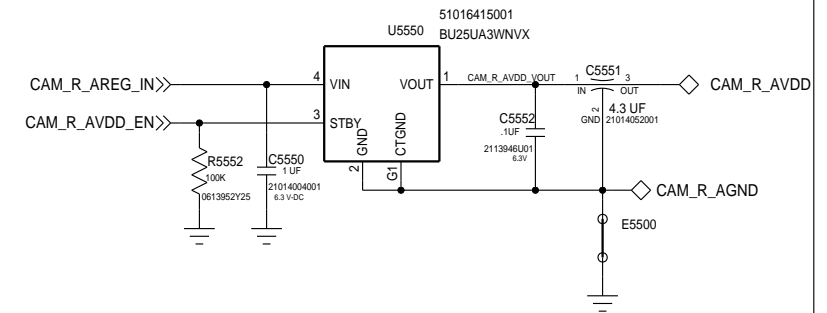


*** IMAGE SENSOR I2C ADD. 0X1A
 *** AUTO FOCUS DRIVER I2C ADD. 0X72
 *** IMAGE SENSOR EEPROM I2C ADD. 0X72

EMI/ESD FILTER



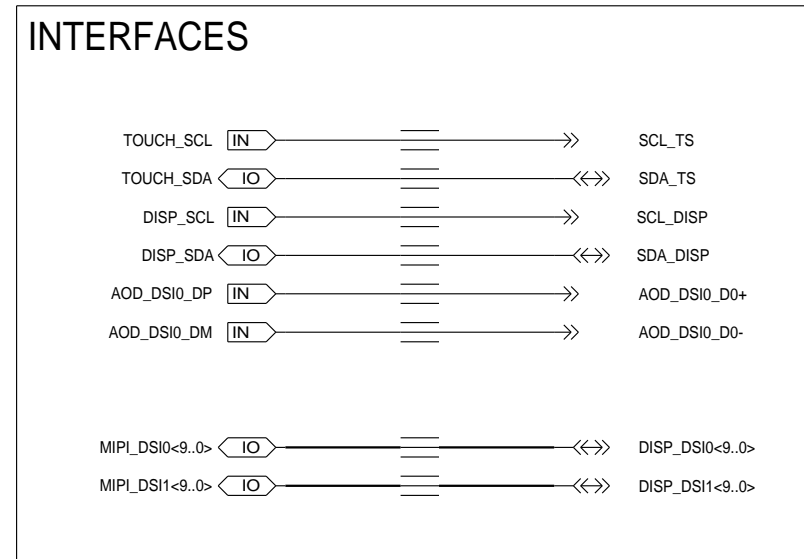
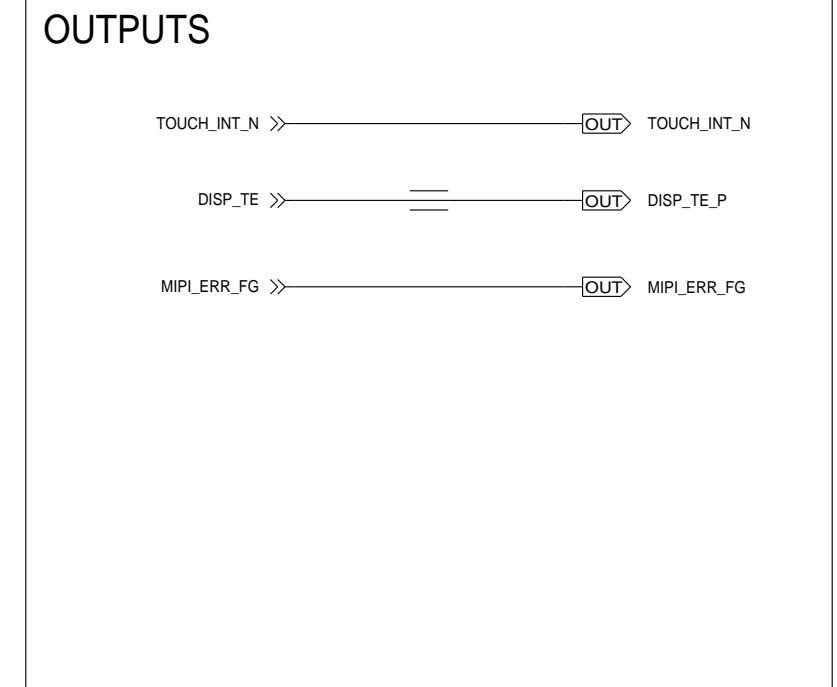
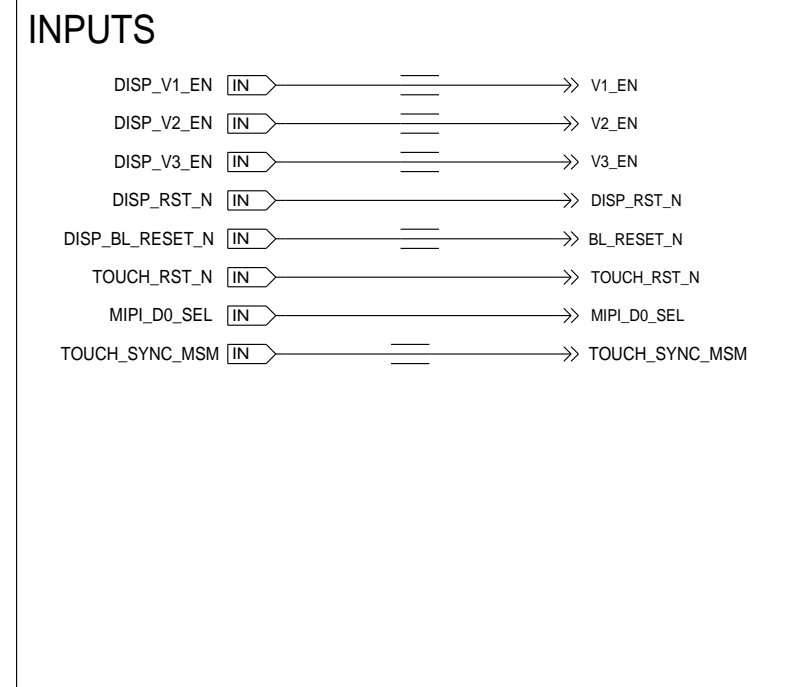
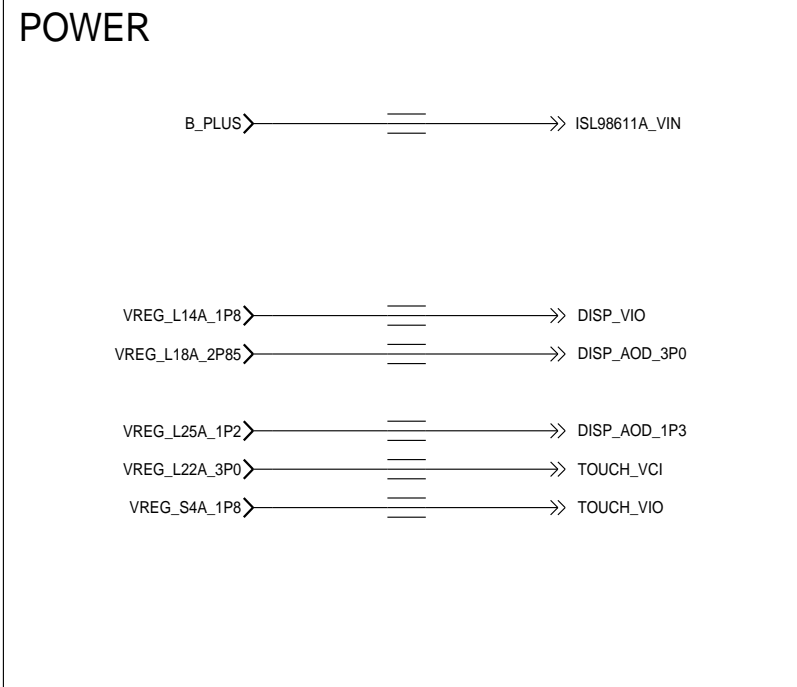
ANALOG REGULATOR



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:46 2015		imagers	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 12 OF 78	

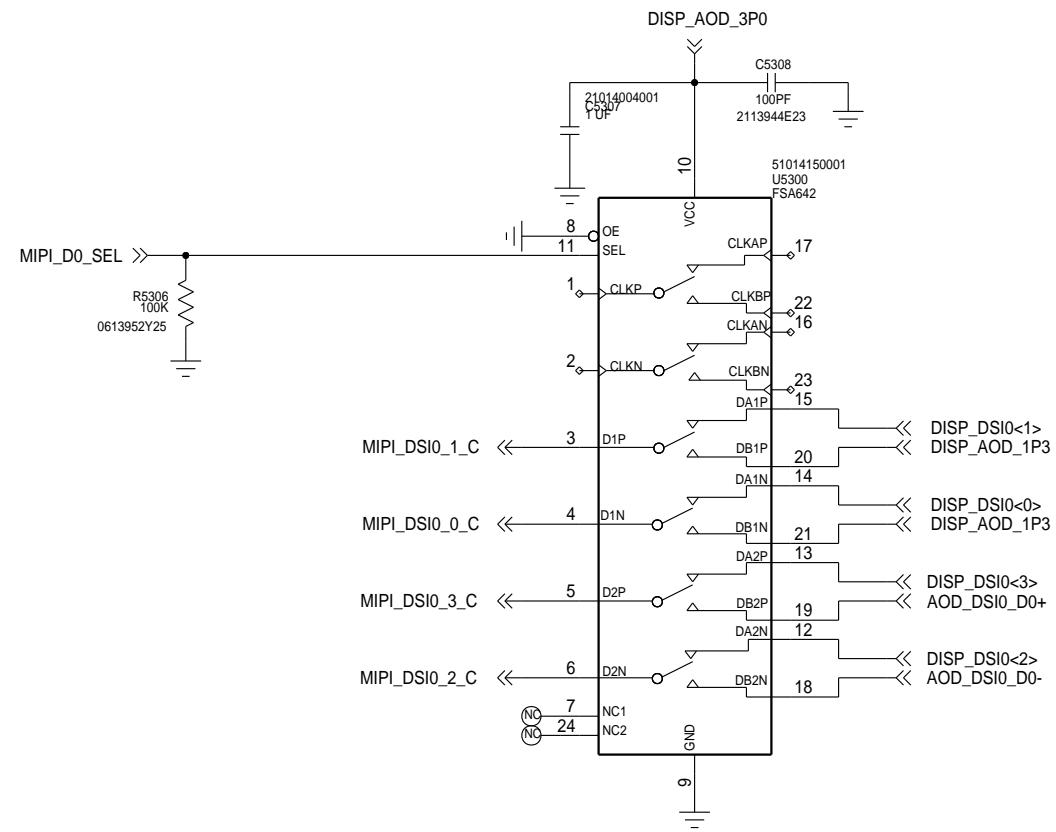
DISP: PORTS

REF 5000-5499



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:41 2015		display	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016440001_c.cpm	01
		CAD FILE NAME:	
		PAGE 13 OF 78	

DISP: AOD

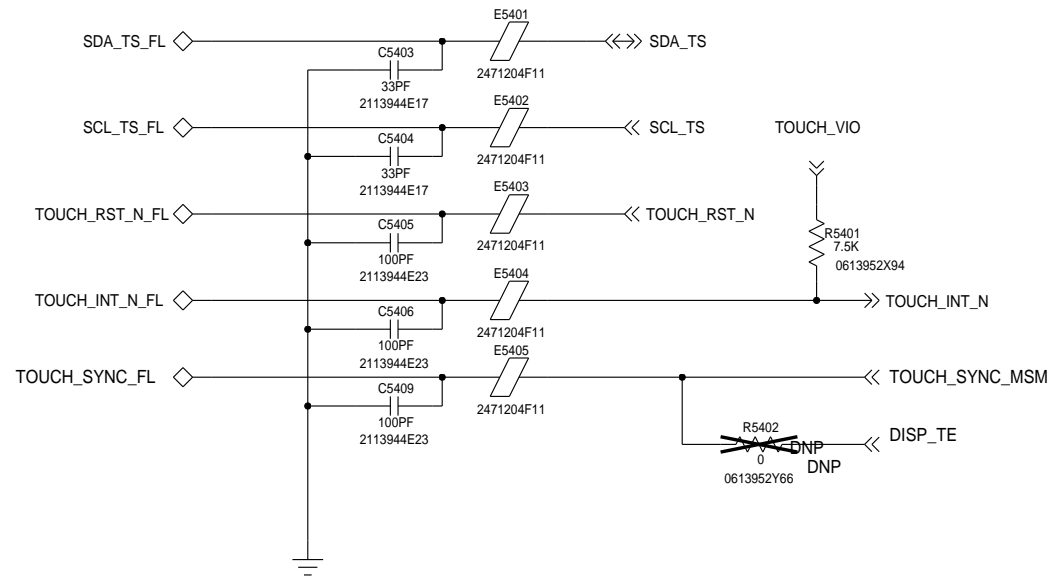
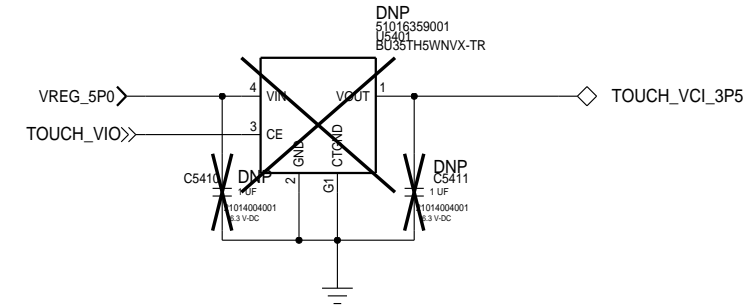
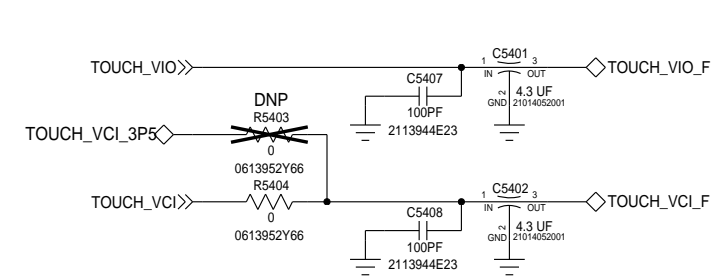
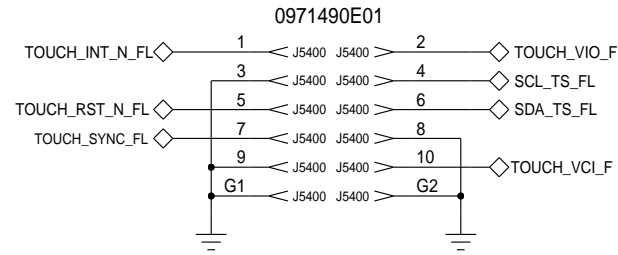


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:42 2015		display	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016440001_c.cpm	REV 01
		CAD FILE NAME:	
		PAGE 15 OF 78	

TOUCH: CONNECTOR

REF 5400-5439

*** TOUCH SENSOR I2C ADD. 0X20

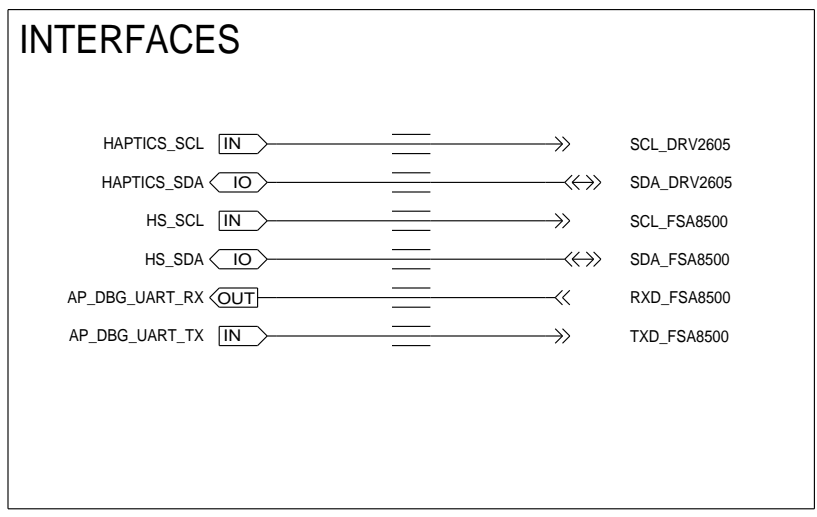
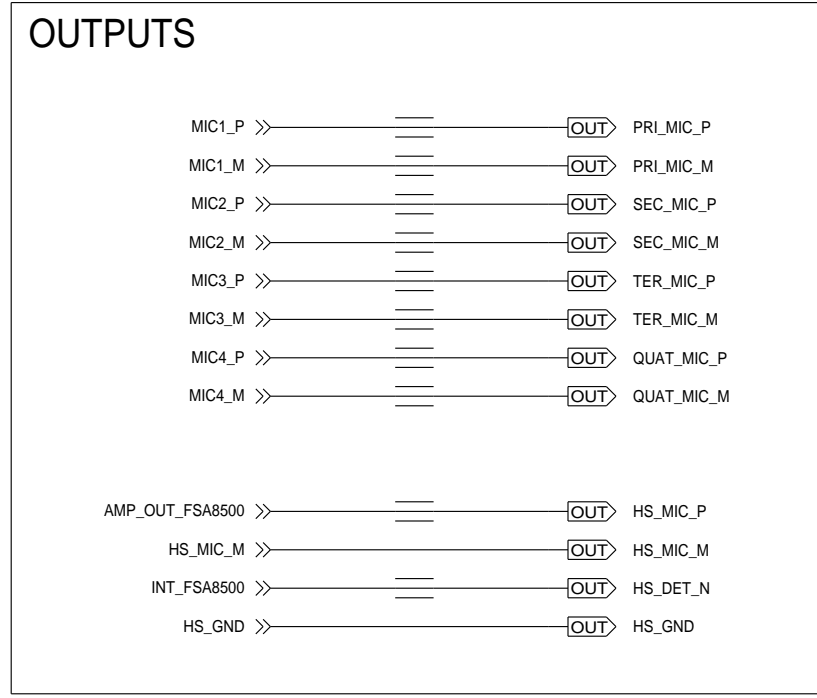
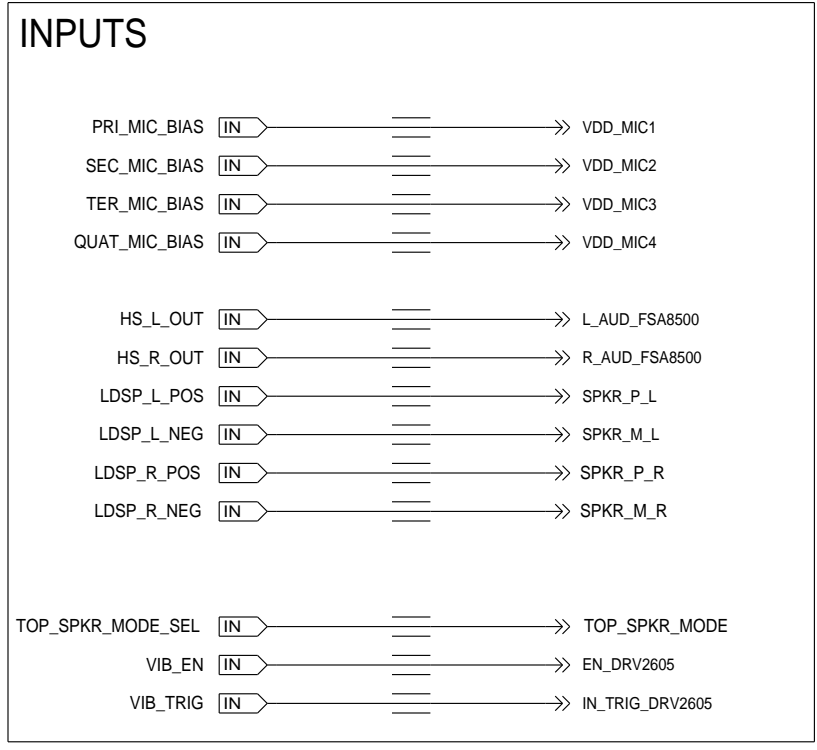
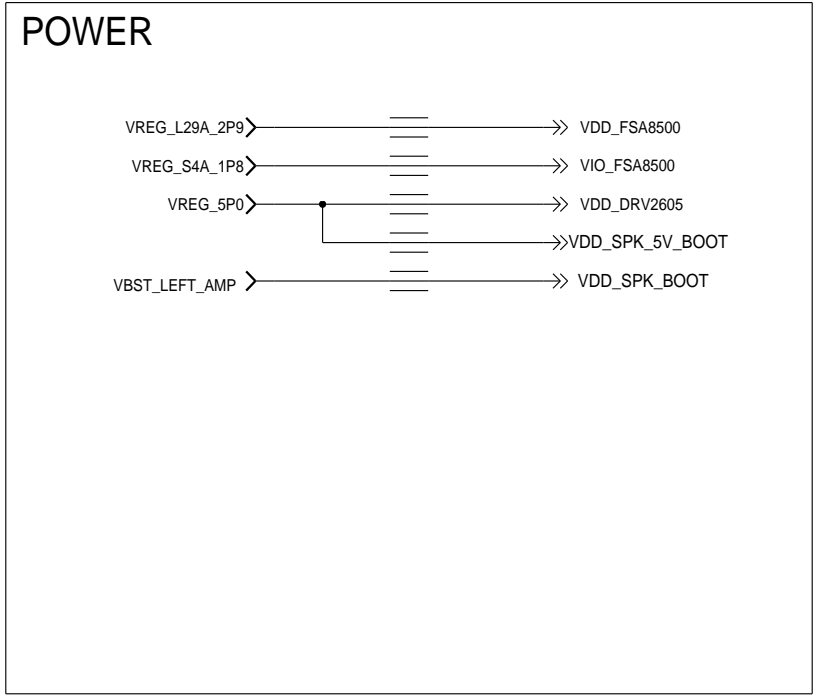


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:43 2015		display	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 16 OF 78	

AFE: PORTS

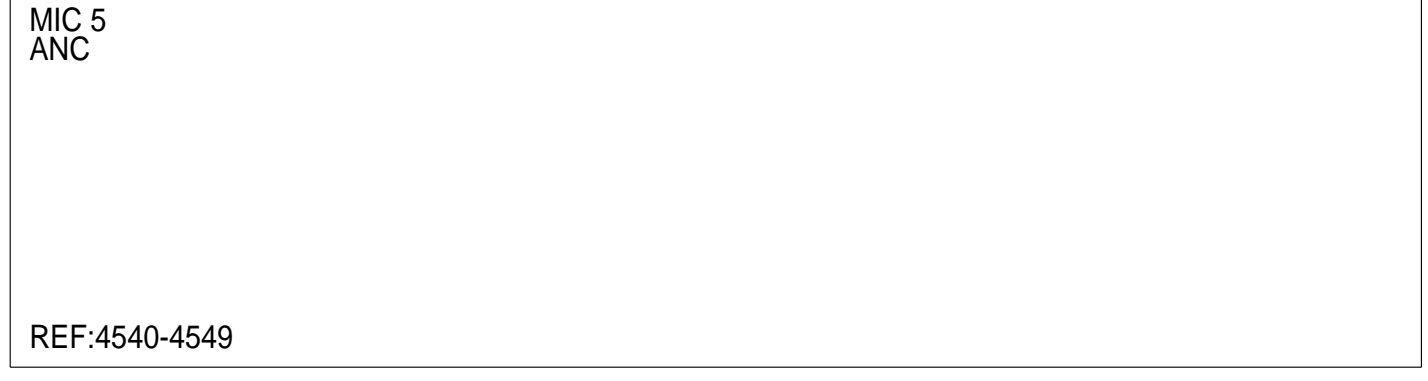
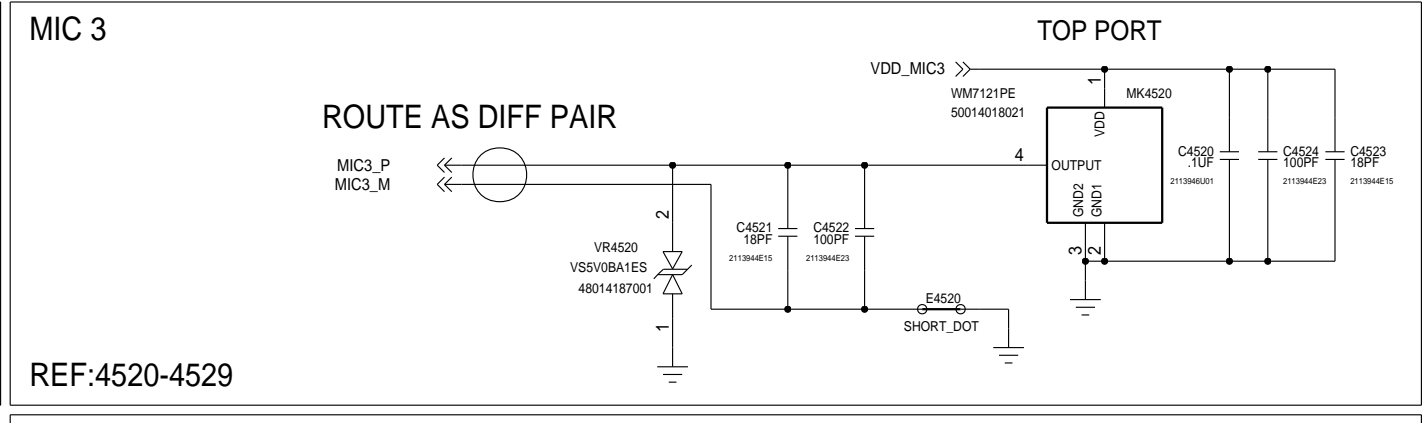
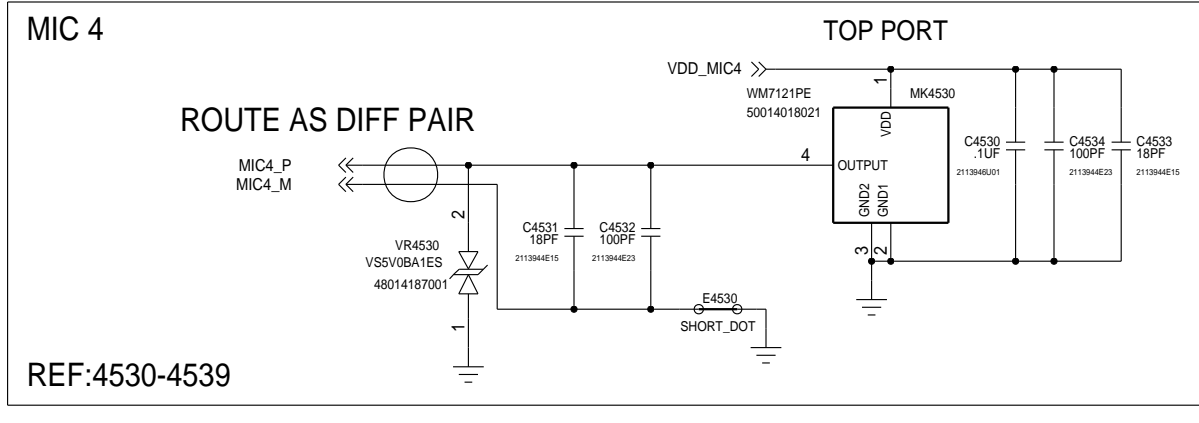
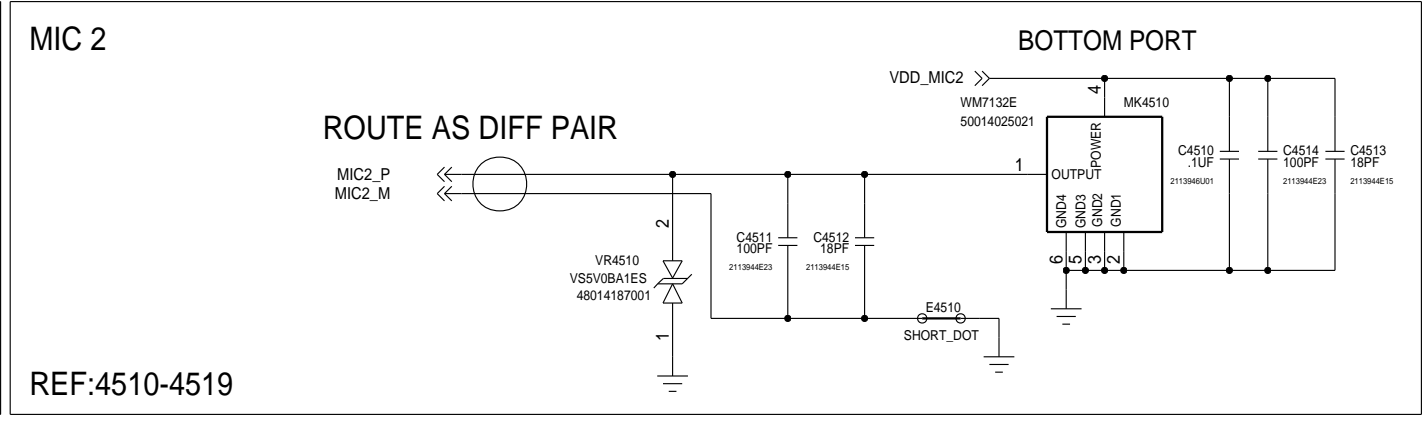
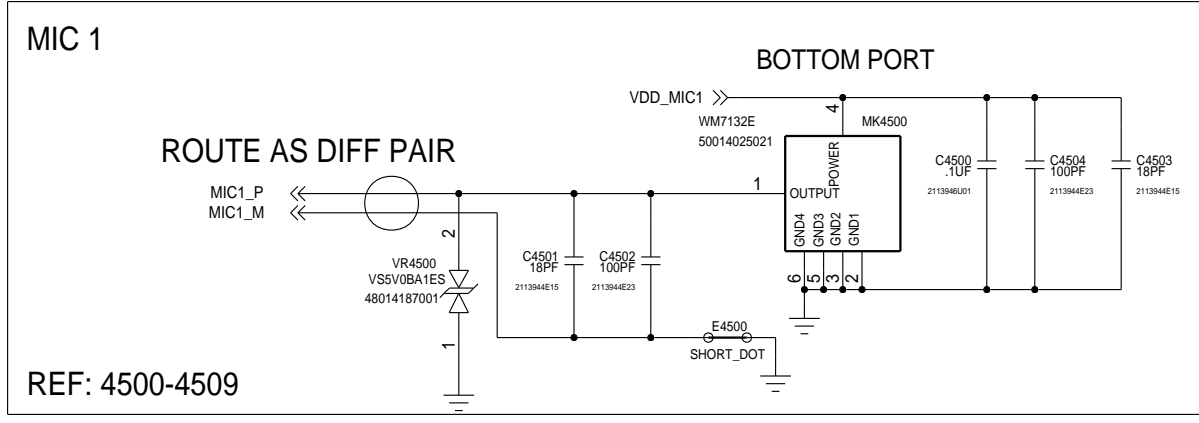
REF 4500-4999



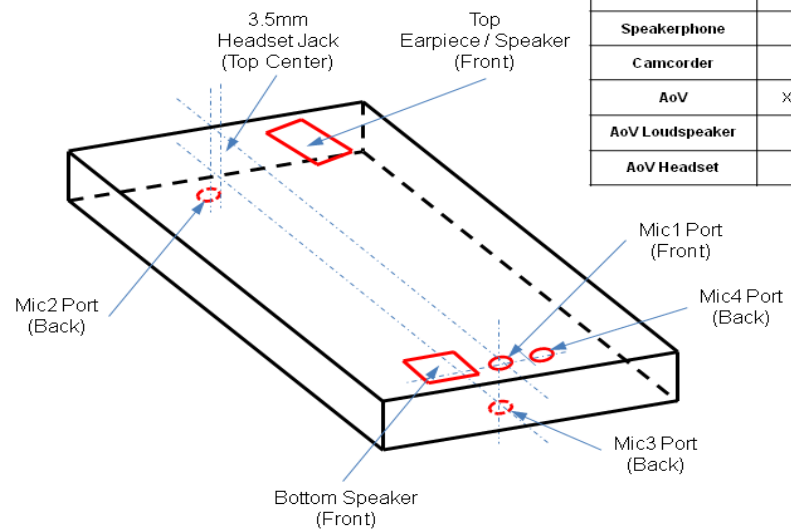
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ENGINEER: NATE CONNELL		BLOCK TITLE: audio_fe	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:37 2015			
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016440001_c.cpm	REV 01
		CAD FILE NAME:	
		PAGE 17 OF 78	

AFE: MICS

REF: 4500-4599



Clark (Front View)

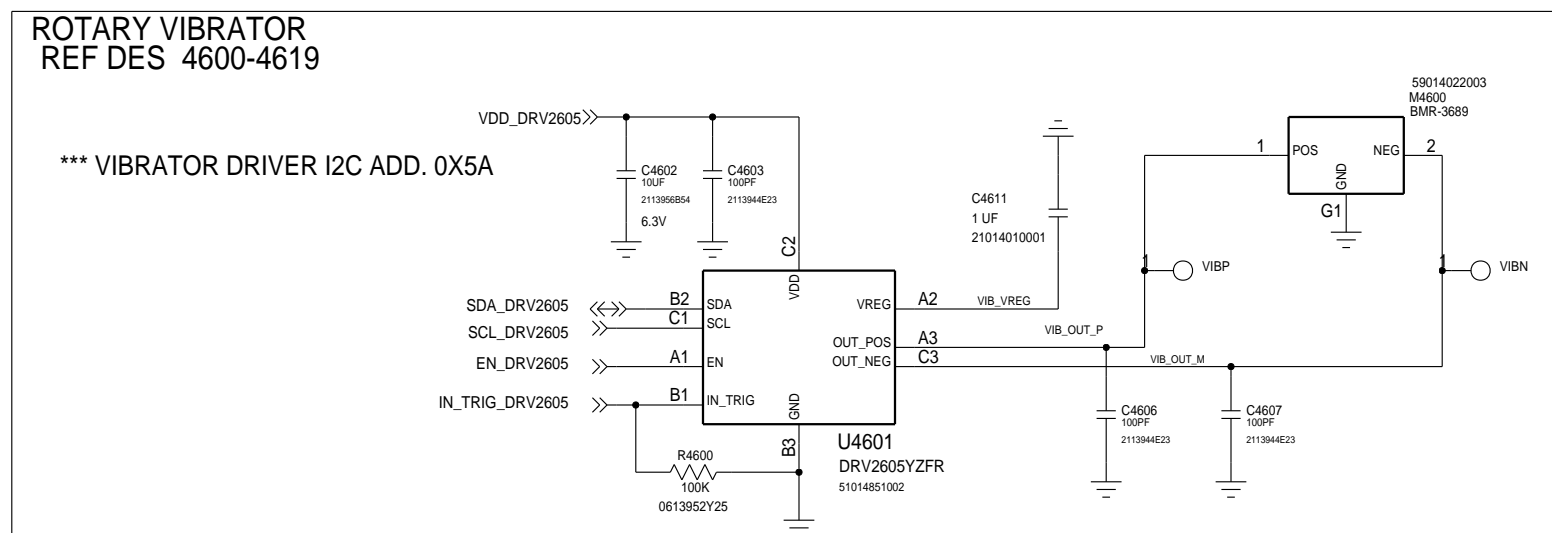
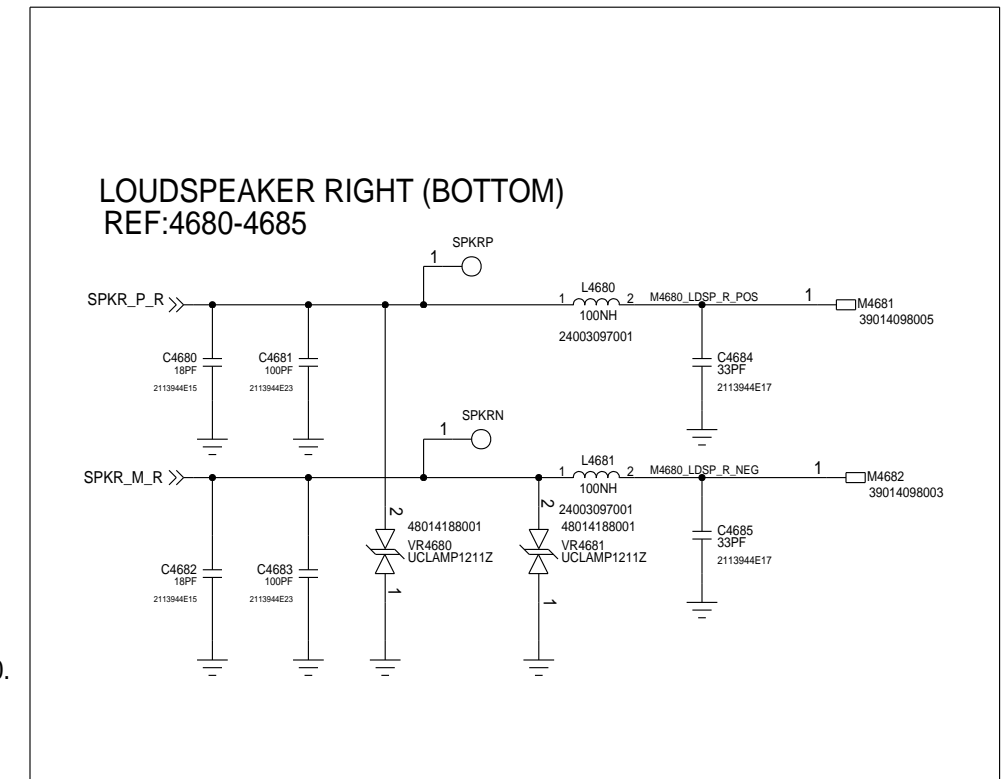
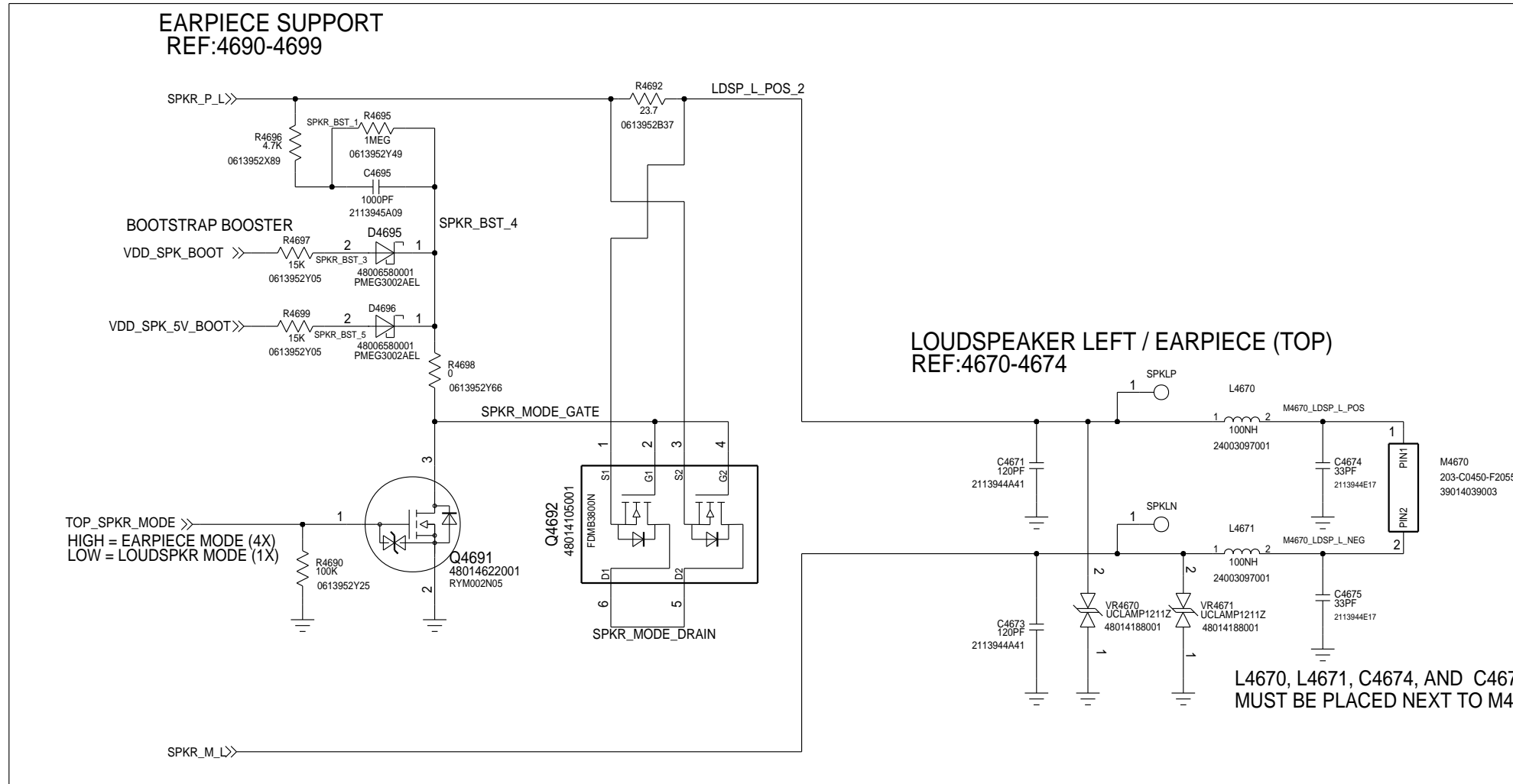


	Mic1	Mic2	Mic3	Mic4	HS Mic
Voice Handset	X	X			
Speakerphone		X			
Camcorder		X	X		
AoV	X		X	X	
AoV Loudspeaker		X			
AoV Headset					X

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:38 2015		audio_fe	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016440001_c.cpm	REV 01
		CAD FILE NAME:	
		PAGE 18 OF 78	

AFE: SPEAKERS

REF: 4600-4699

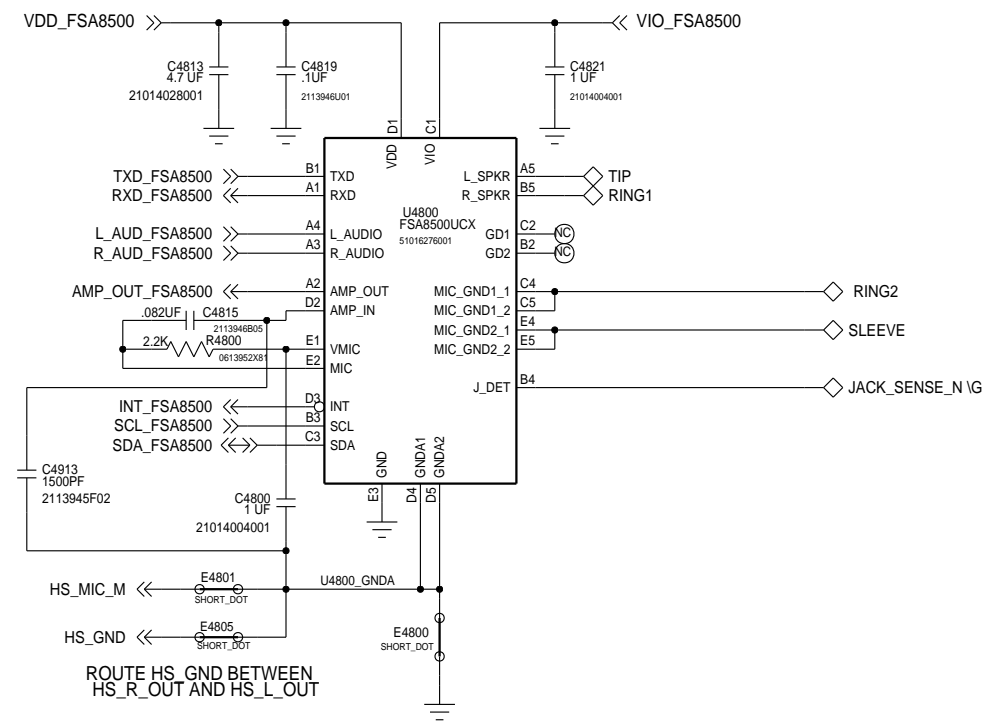


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CAD FILE NAME:		PAGE 19 OF 78	

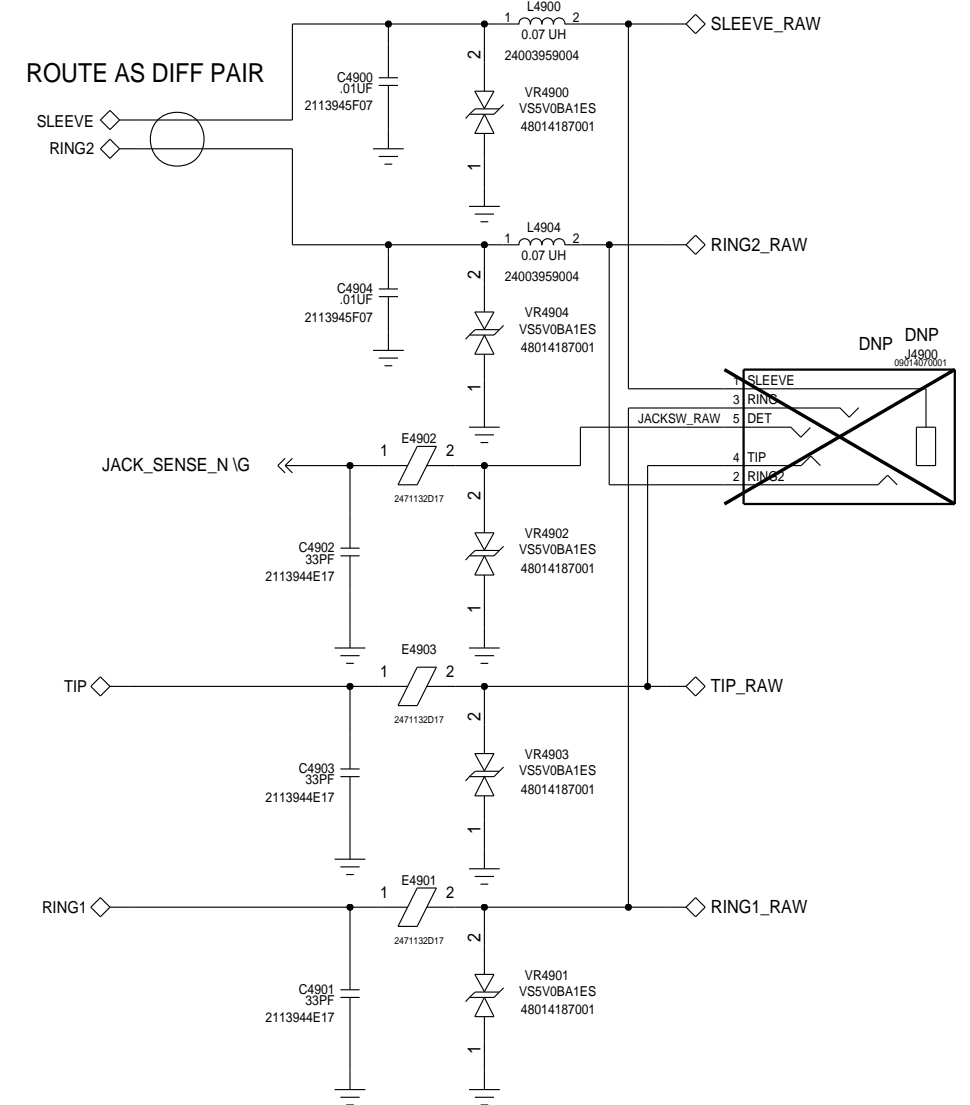
AFE: 3.5MM HEADSET

AUDIO JACK DETECTION REF:4800-4849

*** HEADSET IC I2C ADD. 0X23



3.5MM HSJ REF:4900-4949



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

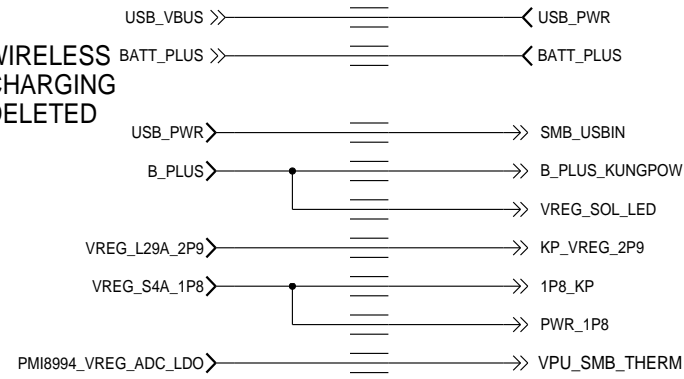
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ENGINEER: MATT MOTTIER		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:40 2015		<h1>audio_fe</h1>	
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CAD FILE NAME:		PAGE 20 OF 78	

PWR: PORTS

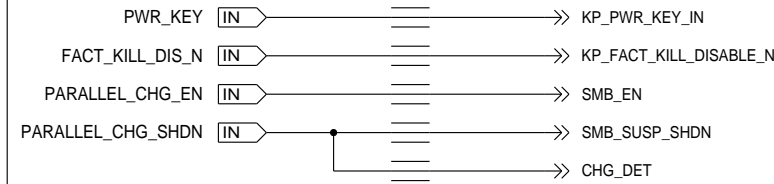
REF 500-799

POWER

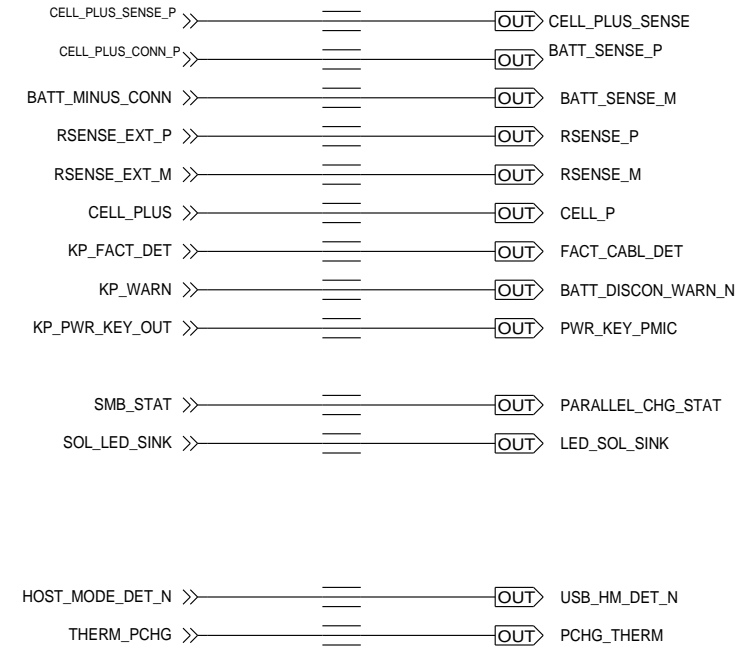
WIRELESS CHARGING DELETED



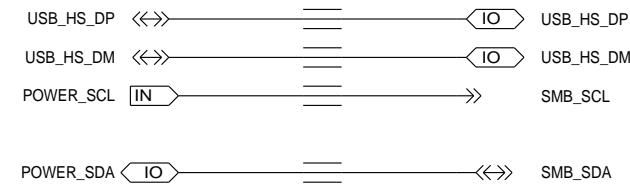
INPUTS



OUTPUTS



INTERFACES

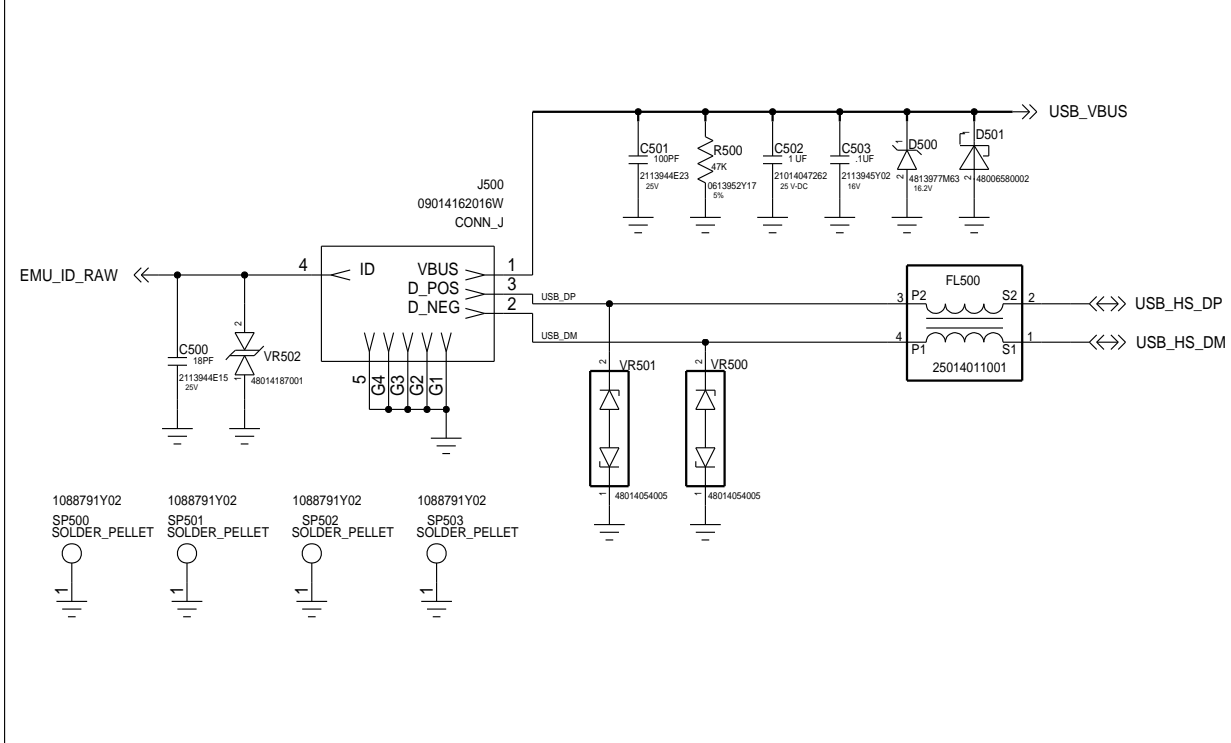


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:34 2015		power	
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		CAD FILE NAME:	PAGE 21 OF 78

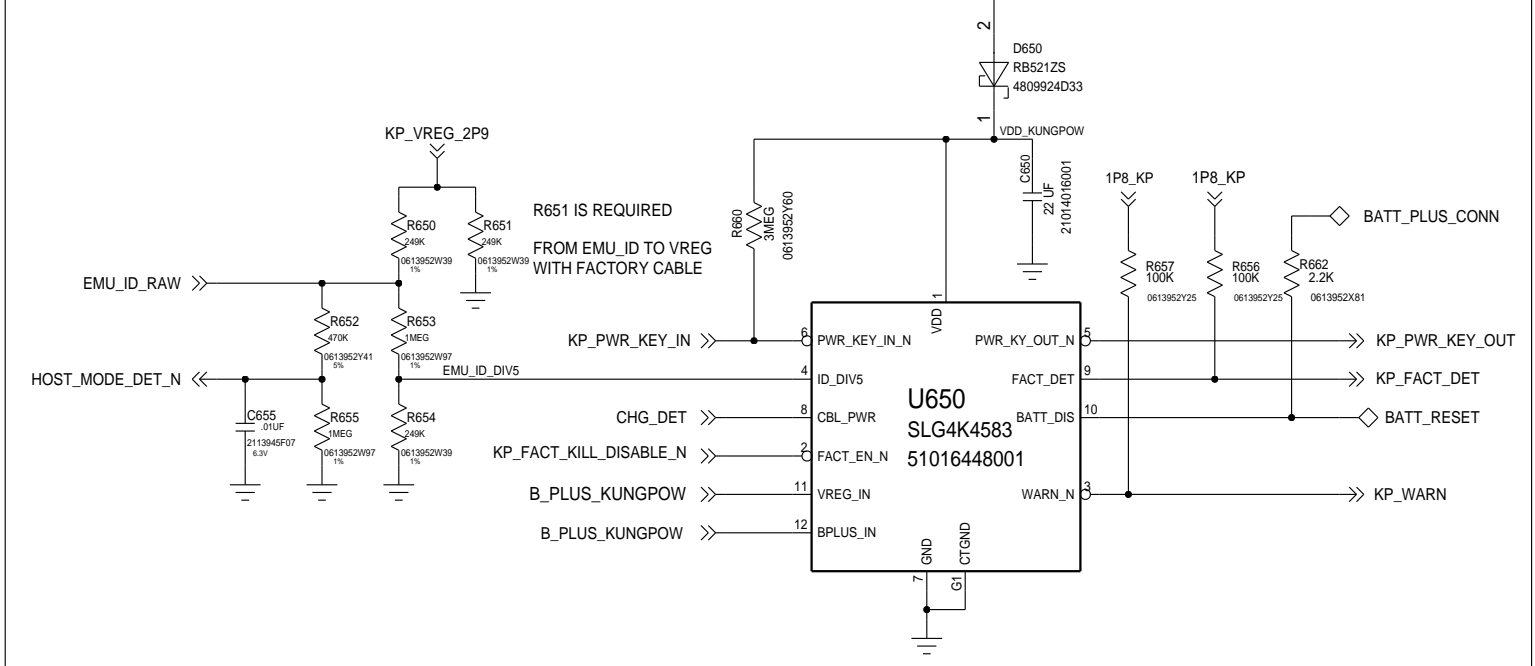
PWR: USB2 / BATT

REF: 500-530

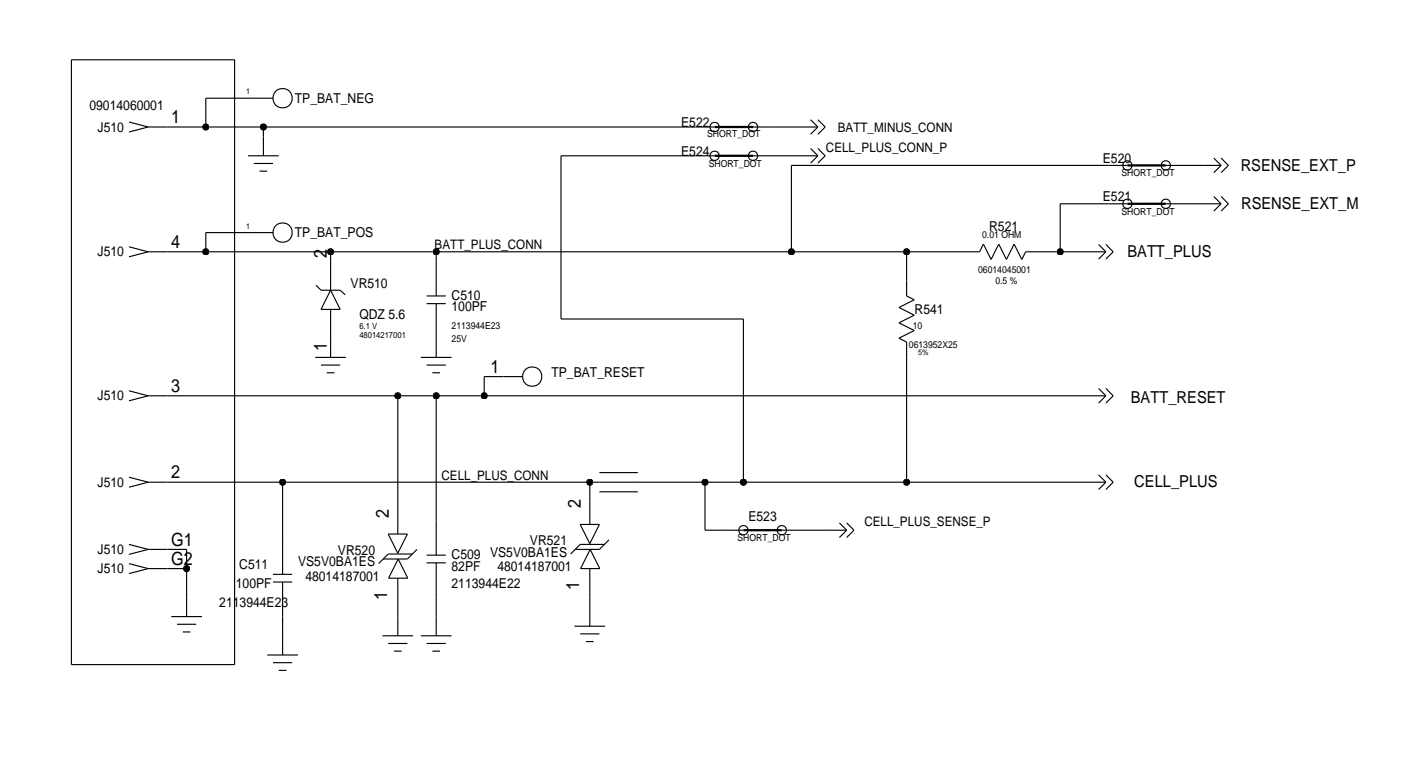
MICRO USB



KUNG KOW BATTERY DISCONNECT



BATTERY BLOCK

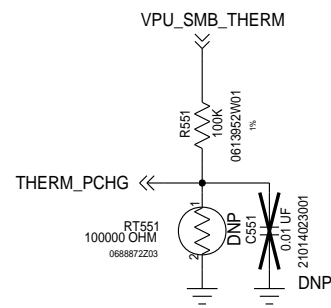
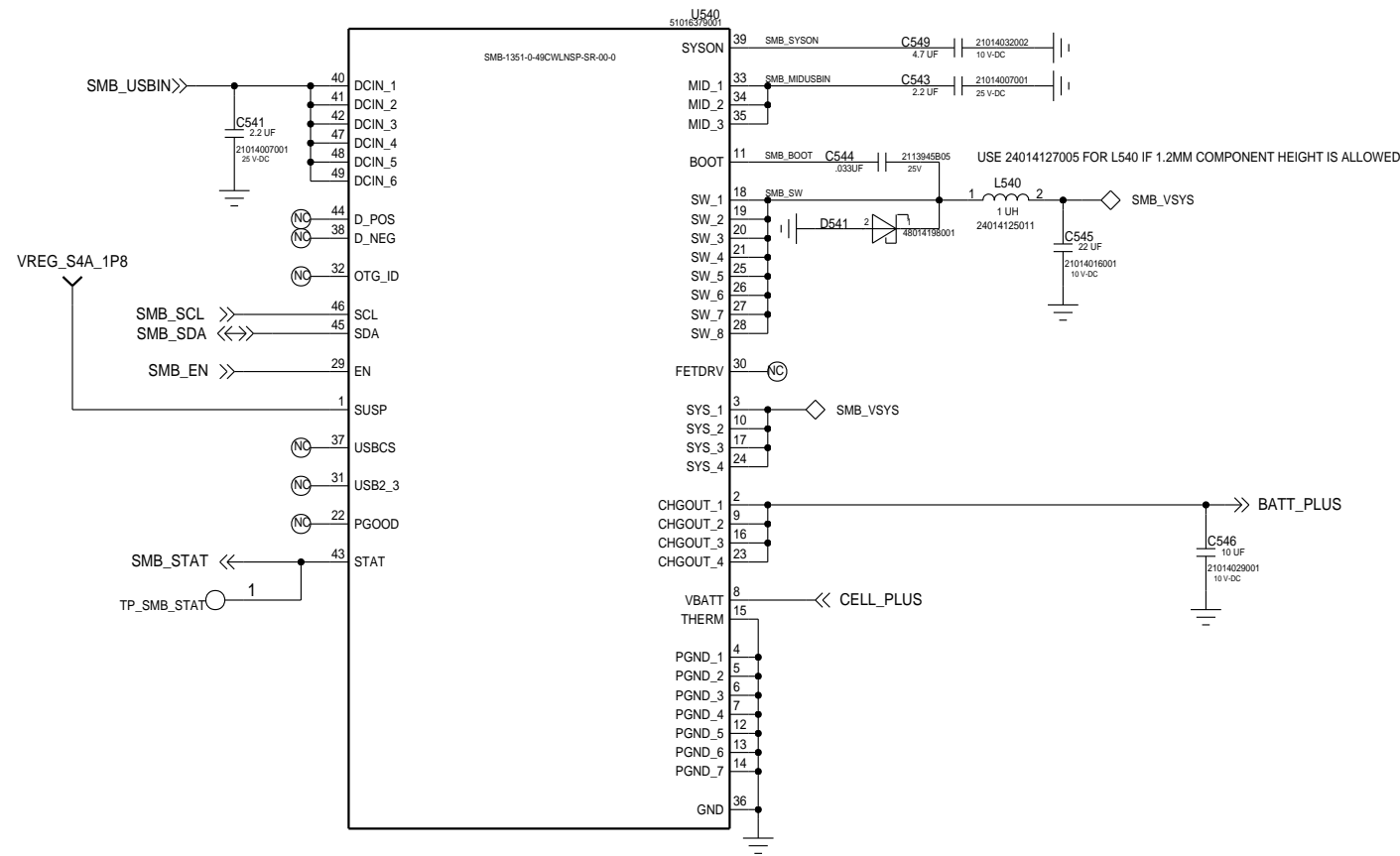


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: RICH NG		BLOCK TITLE: power	
LAST MODIFIED BY: UDI ELRAN Mon Jun 15 13:22:35 2015		PROJECT NAME 84016440001_c.cpm	
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		PAGE 22 OF 78	

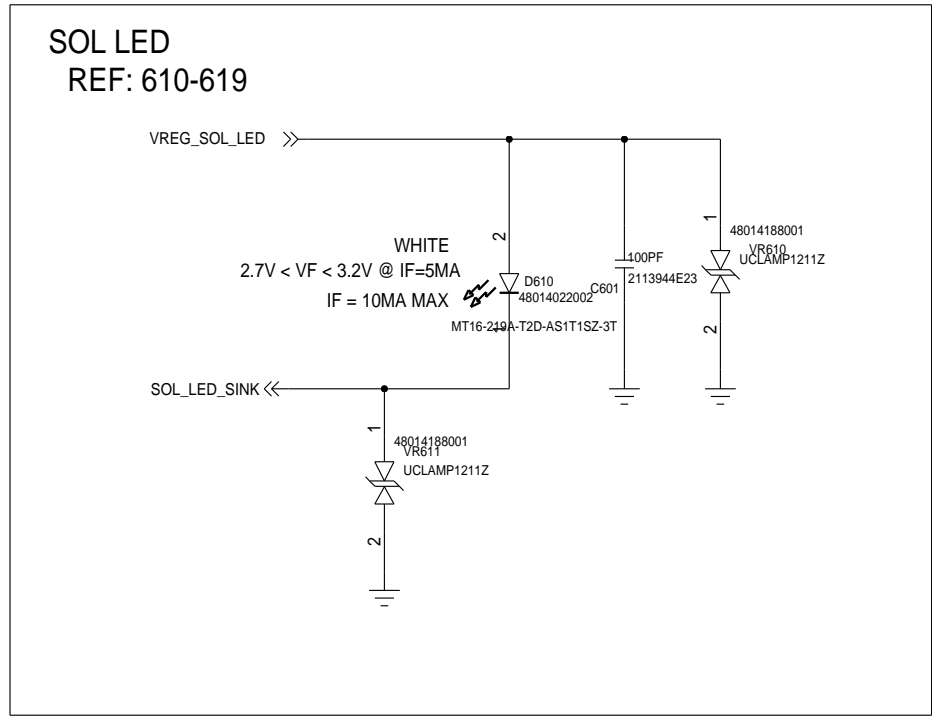
PWR: EXT CHG

REF: 540-559



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: R. NG Mon Jun 15 13:22:35 2015		power	
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		CAD FILE NAME:	
		PAGE 23 OF 78	

PWR: LIGHTING

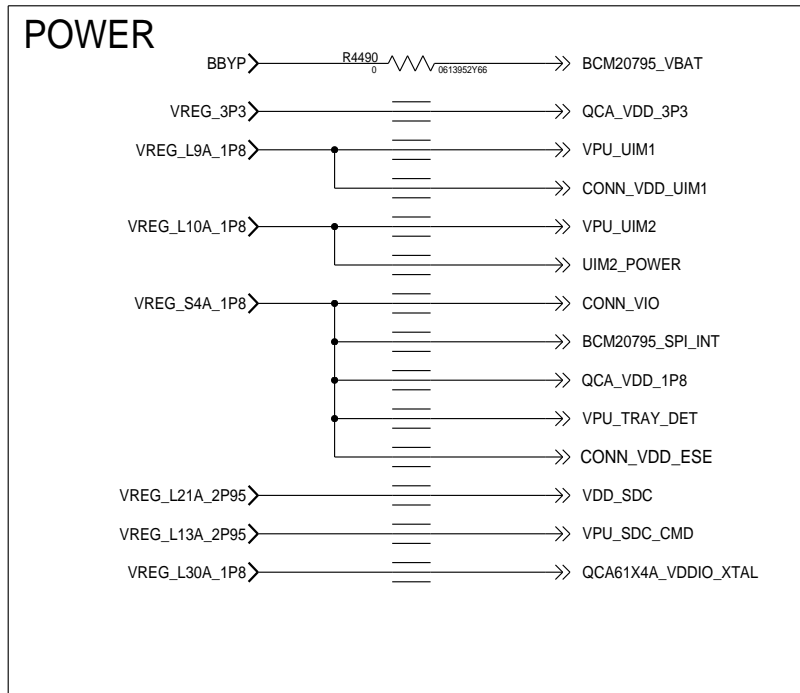


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: TIM MILLER Mon Jun 15 13:22:36 2015		power	
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CAD FILE NAME:			PAGE 24 OF 78

CONN: POWER

REF 4490-4499



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Mon Jun 15 13:22:27 2015		connectivity	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016440001_c.cpm	01
		CAD FILE NAME:	
		PAGE 25 OF 78	

CONN: PORTS

REF 4000-4499

BT/WLAN SYSTEM

BT_WLAN_32KHZ_CLK_IN [IN] ————>> QCA61X4_32KHZ_CLK_IN

WLAN

WLAN_ENABLE [IN] ————>> QCA61X4_WL_EN

PCIE

PCIE_CLK_REQ_OUT_N [OUT] ————<< QCA61X4_PCIE_CLKREQ_N
 PCIE_CLKIN_DP [IN] ————>> QCA61X4_PCIE_REFCLKP
 PCIE_CLKIN_DM [IN] ————>> QCA61X4_PCIE_REFCLKN
 PCIE_RX_DP [IN] ————>> QCA61X4_PCIE_RXP
 PCIE_RX_DM [IN] ————>> QCA61X4_PCIE_RXN
 PCIE_TX_DP [OUT] ————<< QCA61X4_PCIE_TXP
 PCIE_TX_DM [OUT] ————<< QCA61X4_PCIE_TXN
 PCIE_RST_IN_N [IN] ————>> QCA61X4_PCIE_RST_N
 PCIE_HOST_WAKE_OUT_N [OUT] ————<< QCA61X4_PCIE_WAKE_N

BT CONTROLS AND INTERFACES

BT_ENABLE [IN] ————>> QCA61X4_BT_EN

BT_PCM_IN [IN] ————>> QCA61X4_PCM_IN
 BT_PCM_OUT [OUT] ————<< QCA61X4_PCM_OUT
 BT_PCM_CLK [IN] ————>> QCA61X4_PCM_CLK
 BT_PCM_SYNC [IO] ————<<>> QCA61X4_PCM_SYNC
 BT_UART_TX [OUT] ————<< QCA61X4_UART_TXD
 BT_UART_RX [IN] ————>> QCA61X4_UART_RXD
 BT_UART_CTS_N [IN] ————>> QCA61X4_UART_CTS_N
 BT_UART_RTS_N [OUT] ————<< QCA61X4_UART_RTS_N

CELLULAR MODEM/GPS COEXISTENCE

MODEM_LTE_SYNC_UART_RXD [IN] ————>> QCA61X4_LTE_SYNC
 WLAN_LTE_PRI_UART_TXD [OUT] ————<< QCA61X4_LTE_PRI
 WLAN_GPS_COEX [OUT] ————<< QCA61X4_GPS_COEX

NFC

NFC_CLK_IN [IN] ————>> BCM20795_EXT_CLK_IN
 NFC_CLK_REQ_OUT [OUT] ————<< BCM20795_CLK_REQ_OUT
 NFC_ENABLE_IN [IN] ————>> BCM20795_ENABLE_IN
 NFC_IRQ_OUT [OUT] ————<< BCM20795_IRQ_OUT
 NFC_SCL [IN] ————>> BCM20795_SCL
 NFC_SDA [IO] ————<<>> BCM20795_SDA
 NFC_POWER_ON [IN] ————>> BCM20795_REG_PU

SDCARD

SDC_CLK [IN] ————>> CLK_SDC
 SDC_CMD [IN] ————>> CMD_SDC
 SDC_DATA<3..0> [IO] ————<<>> DATA_SDC<3..0>

UIM1

UIM1_DATA [IO] ————<<>> UIM1_DATA
 UIM1_CLK [IN] ————>> UIM1_CLK
 UIM1_RST [IN] ————>> UIM1_RST

UIM2

UIM2_DATA [IO] ————<<>> UIM2_DATA
 UIM2_CLK [IN] ————>> UIM2_CLK
 UIM2_RST [IN] ————>> UIM2_RST

ANTENNA

STREAM0_BT [IO] ————<<>> BT_WLAN_ANT0
 STREAM1 [IO] ————<<>> WLAN_ANT1

TRAY_DET [OUT] ————<< TRAY_DET

APPROVALS

ENGINEER: FROEHLING

LAST MODIFIED BY: FROEHLING
 Mon Mar 30 17:43:19 2015

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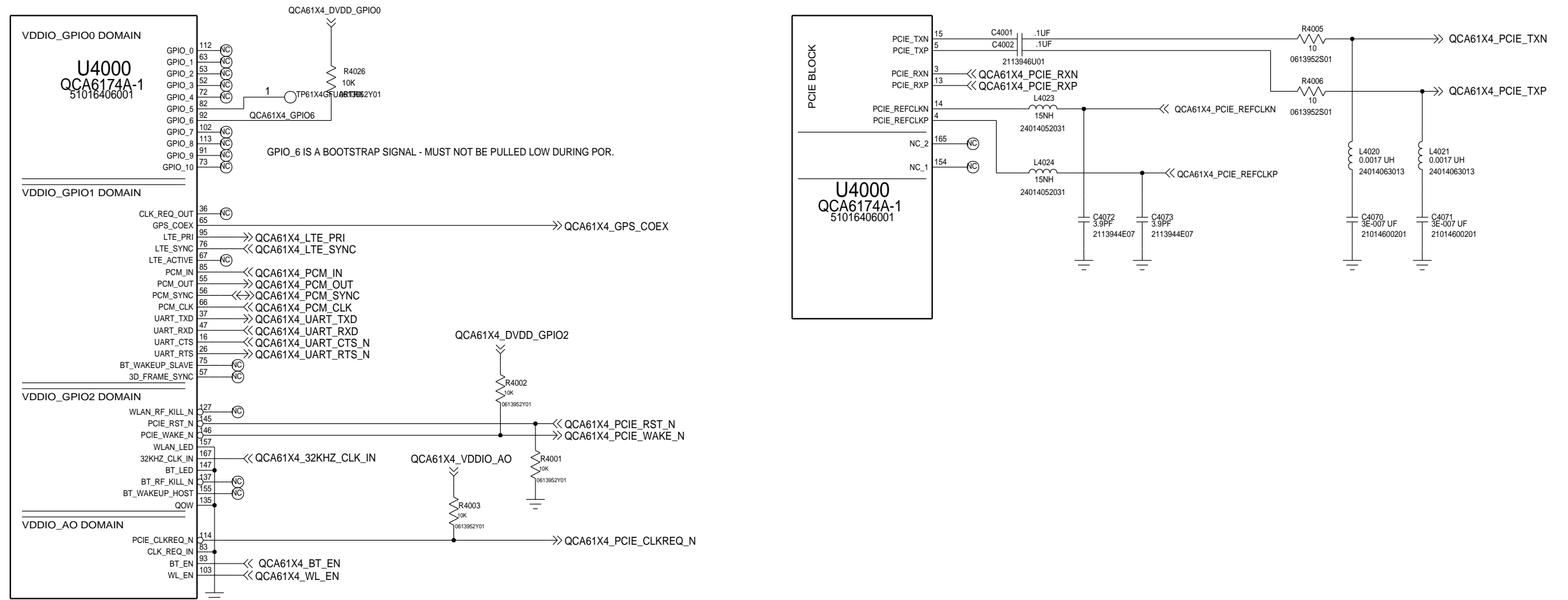
connectivity

B	PROJECT NAME	REV
	84016440001_c.cpm	01

CAD FILE NAME:

CONN: QCA61X4A HOST I/F

REF: 4000-4099



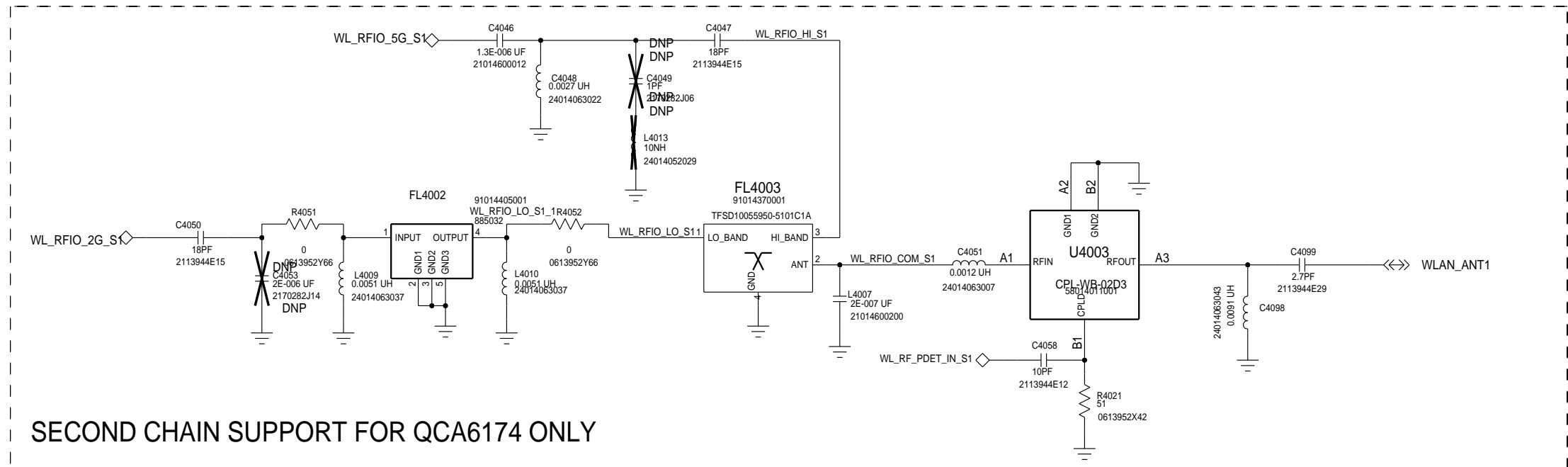
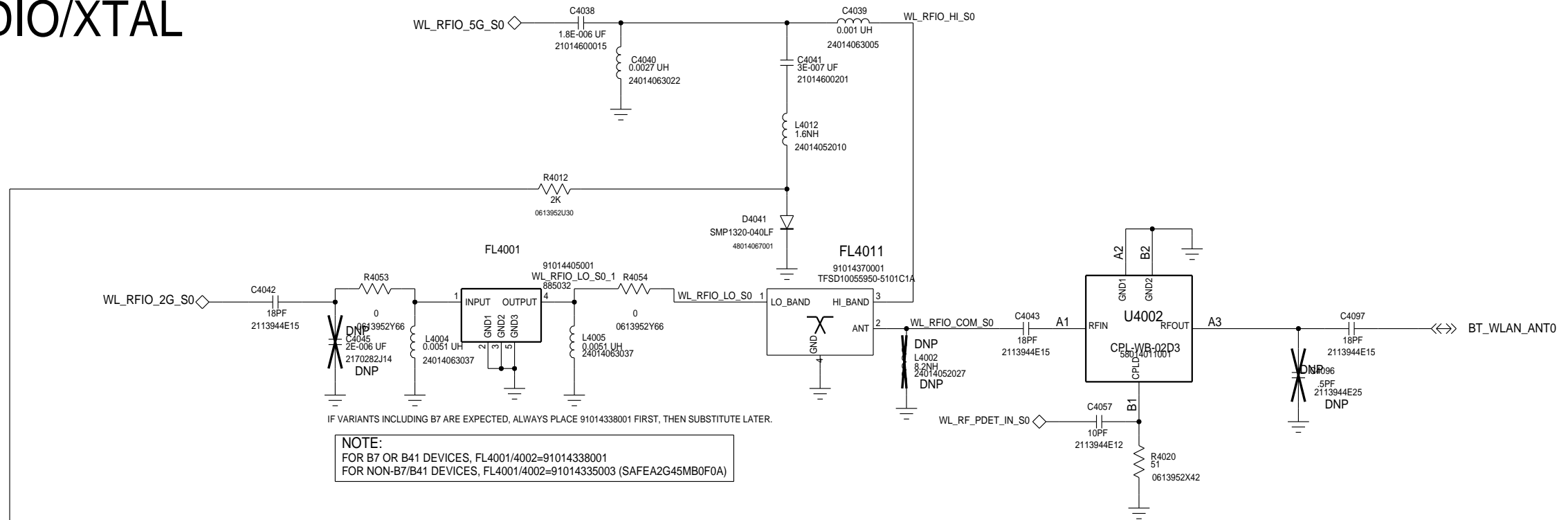
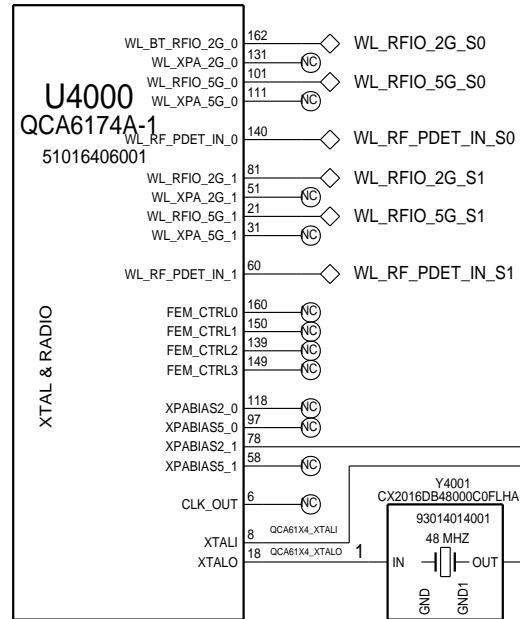
BASED ON 80-WL400/405-42 REV. B

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Mon Jun 15 13:22:29 2015		connectivity	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 28 OF 78	

CONN: QCA61X4A RADIO/XTAL

REF 4000-4099



BASED ON 80-WL400-42 REV. B

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Mon Jun 15 13:22:29 2015		connectivity	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 29 OF 78	

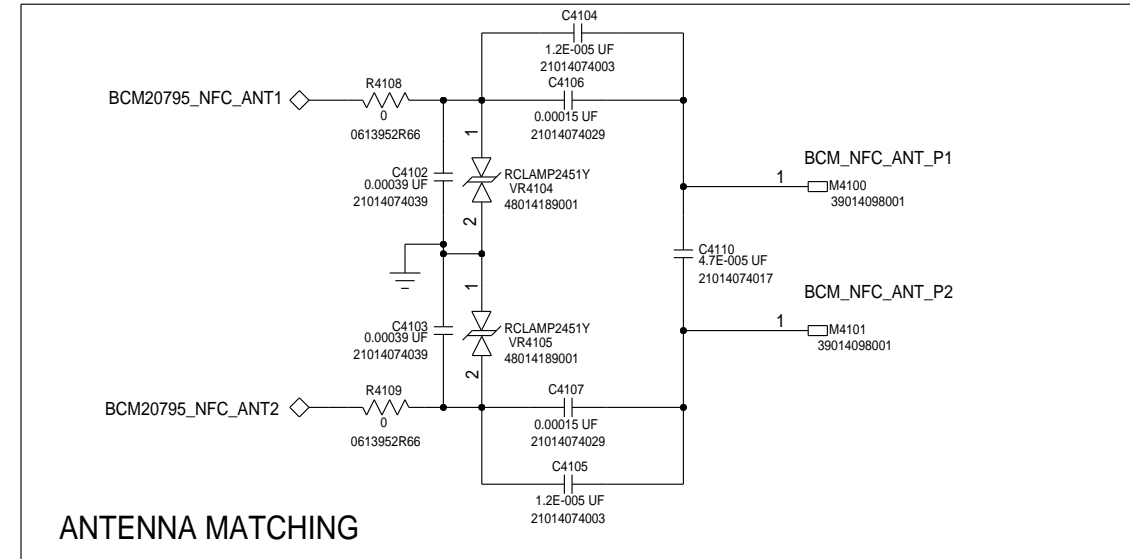
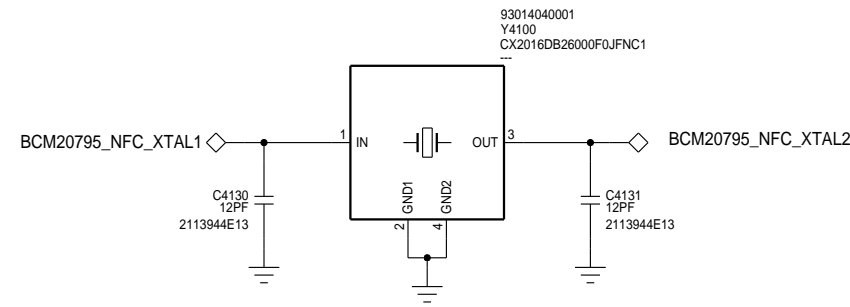
CONN: BCM20795 NFC

REF: 4100-4199

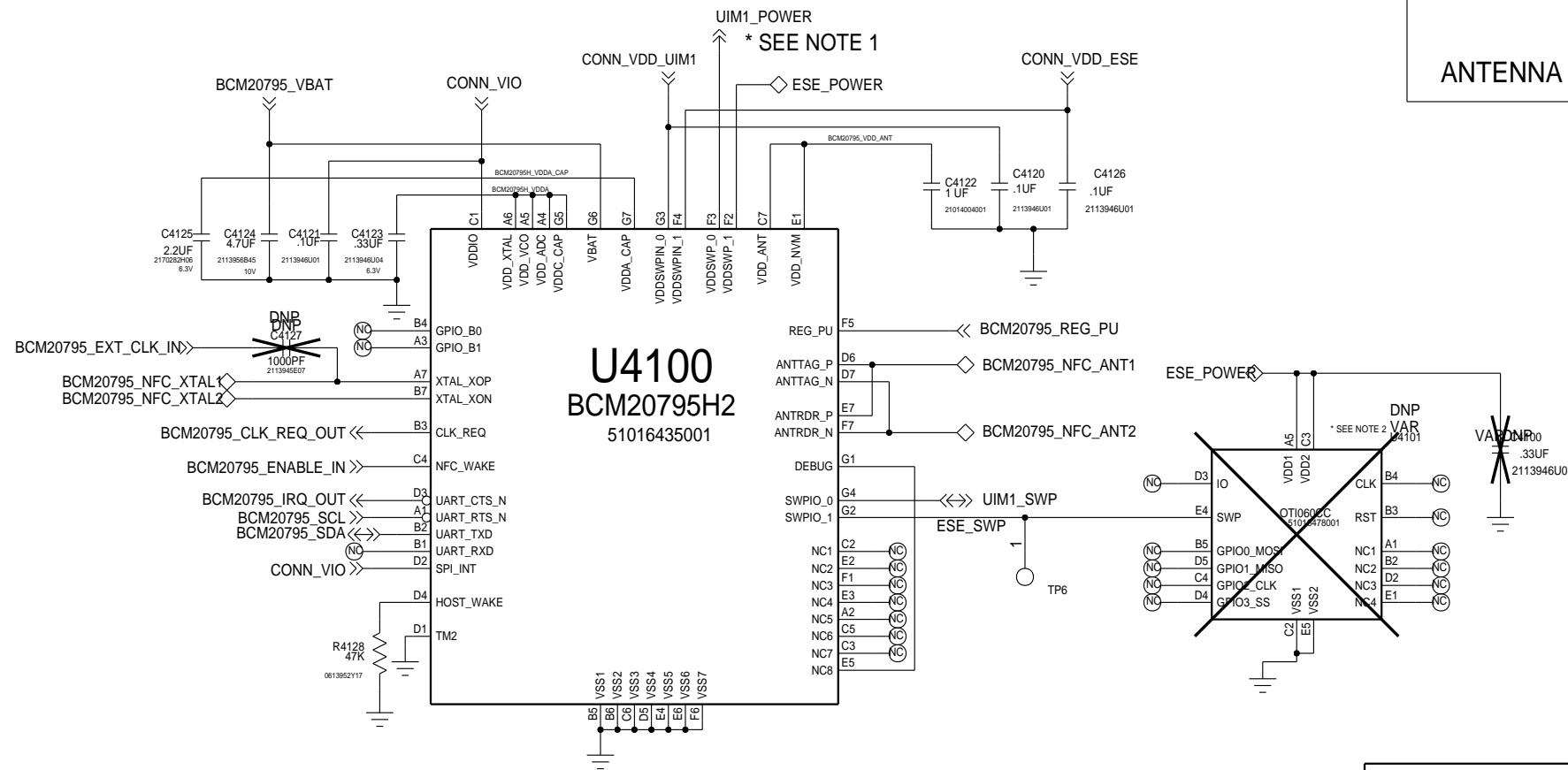
I2C ADDR: 0X77 (BOOT DEFAULT WHEN PIN 3 IS PULLED TO GROUND)

OR

I2C ADDR: 0X76 (BOOT DEFAULT WHEN PIN 3 IS FLOATED/PULLED HIGH)



ANTENNA MATCHING



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

NOTES:

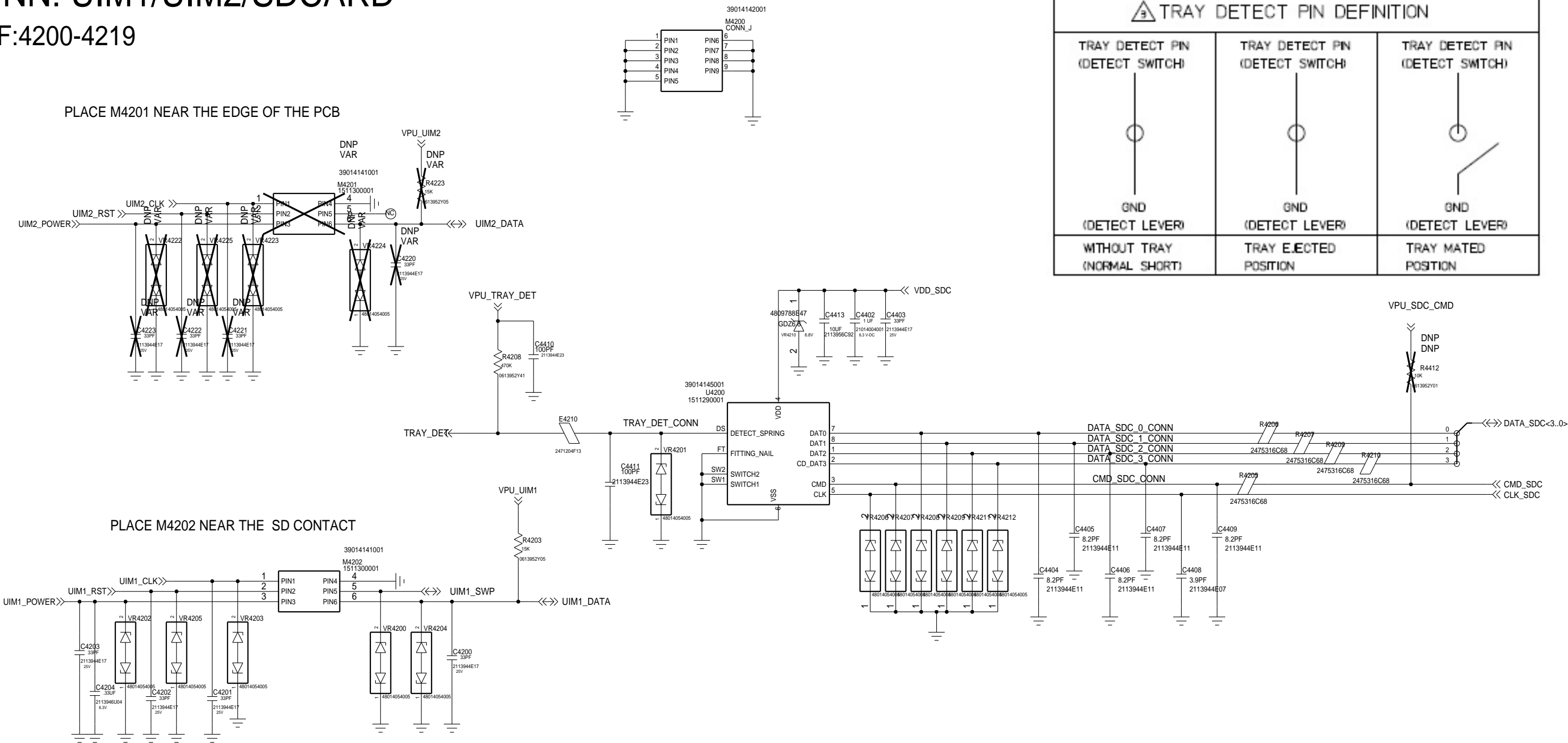
- PER BROADCOM RECOMMENDATION, CAPACITANCE ON UIM1_POWER NET SHOULD BE 0.33UF. TOO LITTLE COMPROMISES REGULATOR STABILITY, TOO MUCH CAN CAUSE INADVERTENT POWER-ON RESETS AT VDD.
- SECURE ELEMENT U4101 ONLY PLACED ON DSDA SKU (CHINA) REFER TO BELOW CHART:

	U4100	C4100
ATT/ROW	DNI	DNI
VZW/ SPRINT/ USC	DNI	DNI
TMO	DNI	DNI
CHINA	PLACE	PLACE

APPROVALS			
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Mon Jun 15 13:22:31 2015		connectivity	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	
		PAGE 30 OF 78	

CONN: UIM1/UIM2/SDCARD

REF:4200-4219



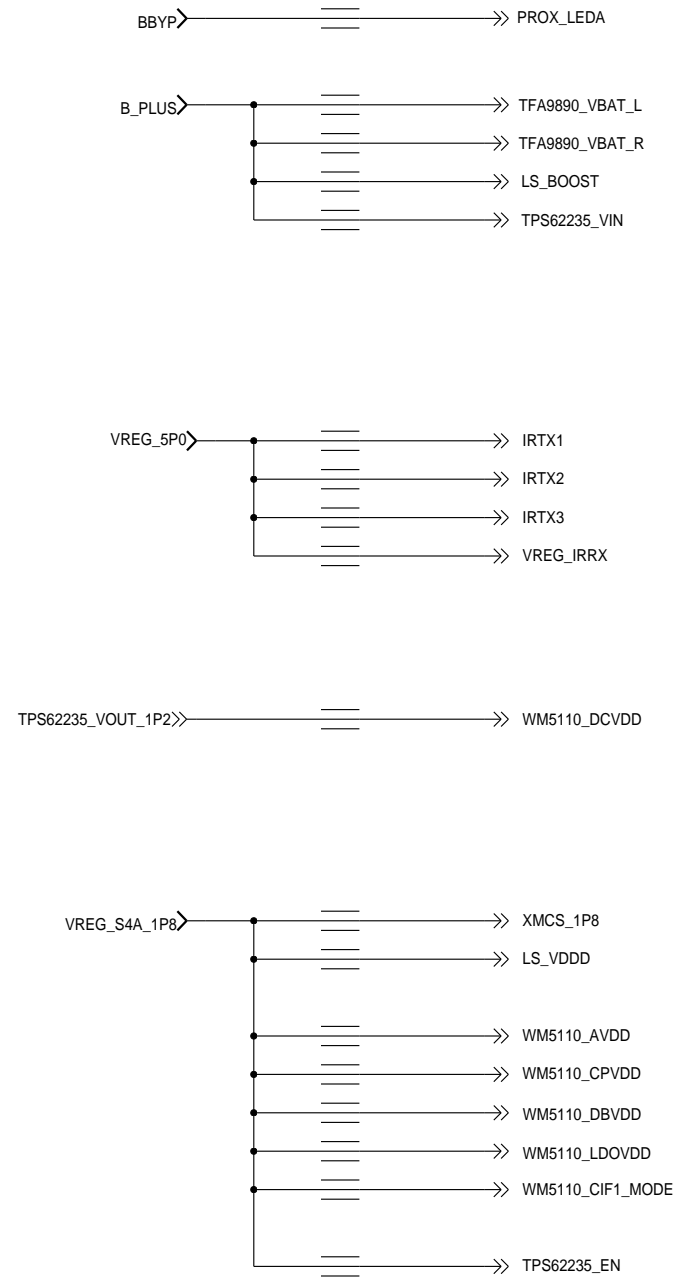
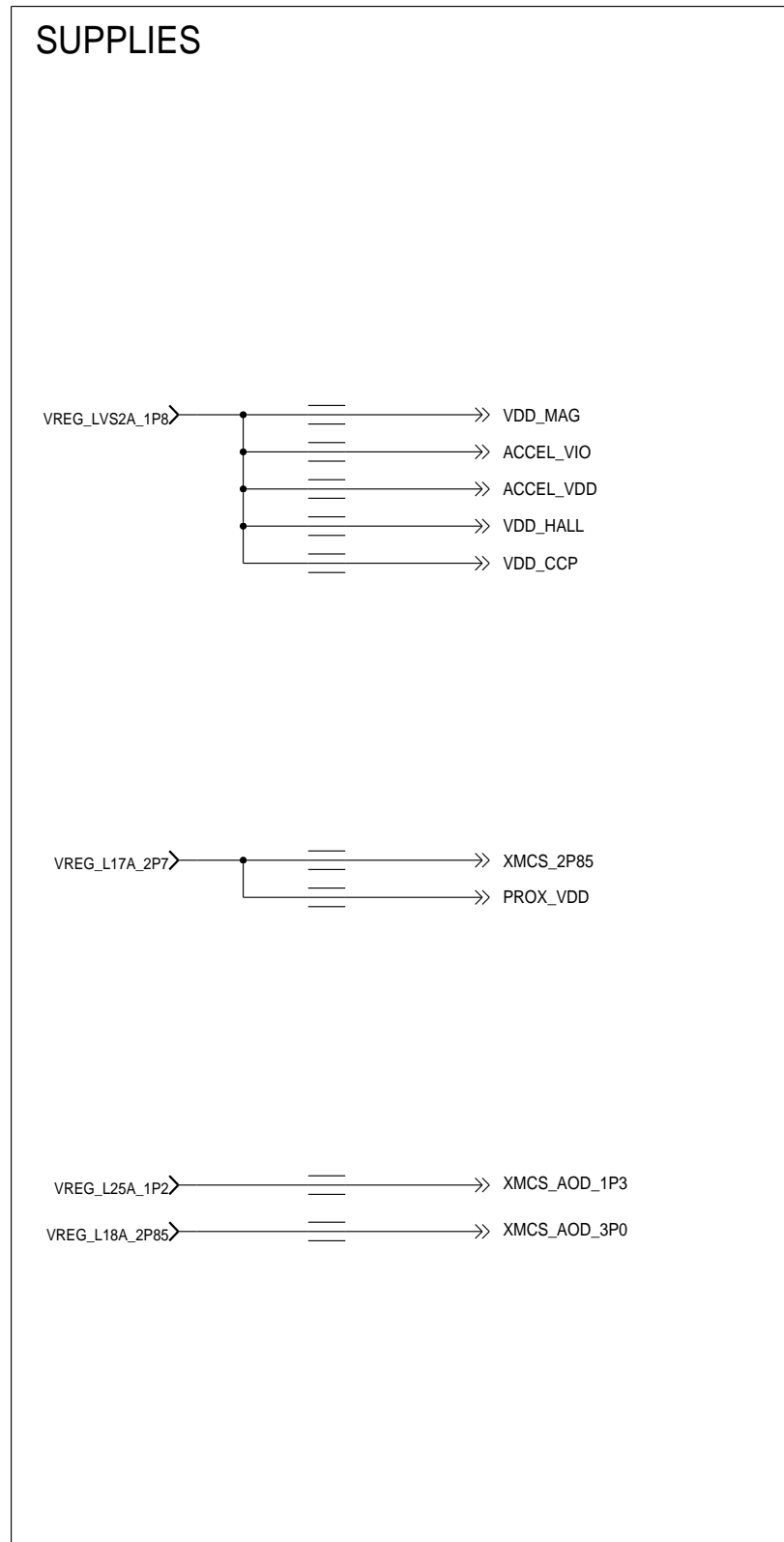
TRAY DETECT PIN DEFINITION		
TRAY DETECT PIN (DETECT SWITCH)	TRAY DETECT PIN (DETECT SWITCH)	TRAY DETECT PIN (DETECT SWITCH)
GND (DETECT LEVER)	GND (DETECT LEVER)	GND (DETECT LEVER)
WITHOUT TRAY (NORMAL SHORT)	TRAY EJECTED POSITION	TRAY MATED POSITION

NOTE 1: USE 24.9K PULL-UP TO SUPPORT HOT SWAP WITH FREEZE-IO FEATURE.
 NOTE 2: UIM_PWR BYPASS OF 0.33UF RECOMMENDED BY NFC IC SUPPLIER, PLACE NEAR CONNECTOR.

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Mon Jun 15 13:22:32 2015		connectivity	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 31 OF 78	

XMCS: POWER

REF 6000-6999

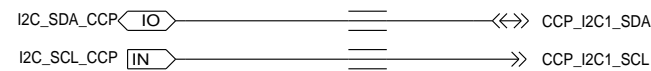
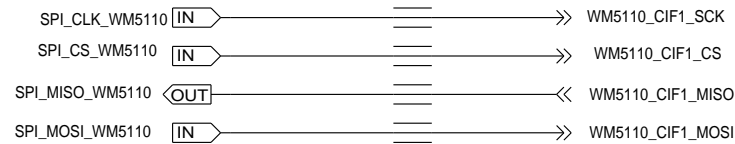
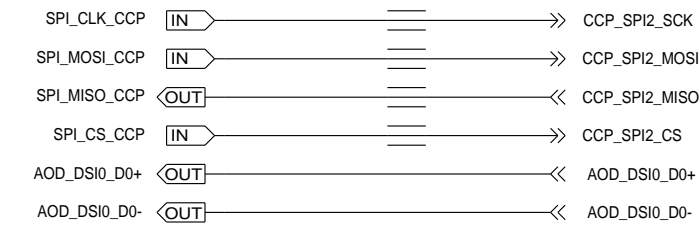
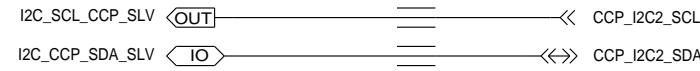
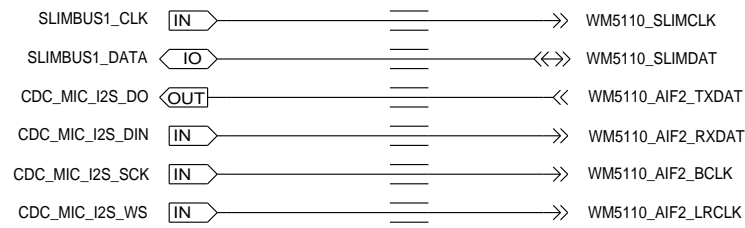
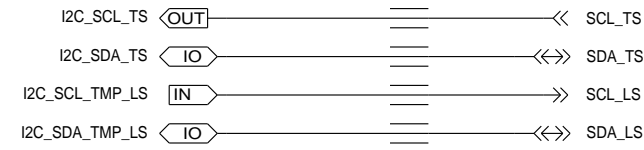


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:20 2015		xmcs	
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		CAD FILE NAME:	
		PAGE 32 OF 78	

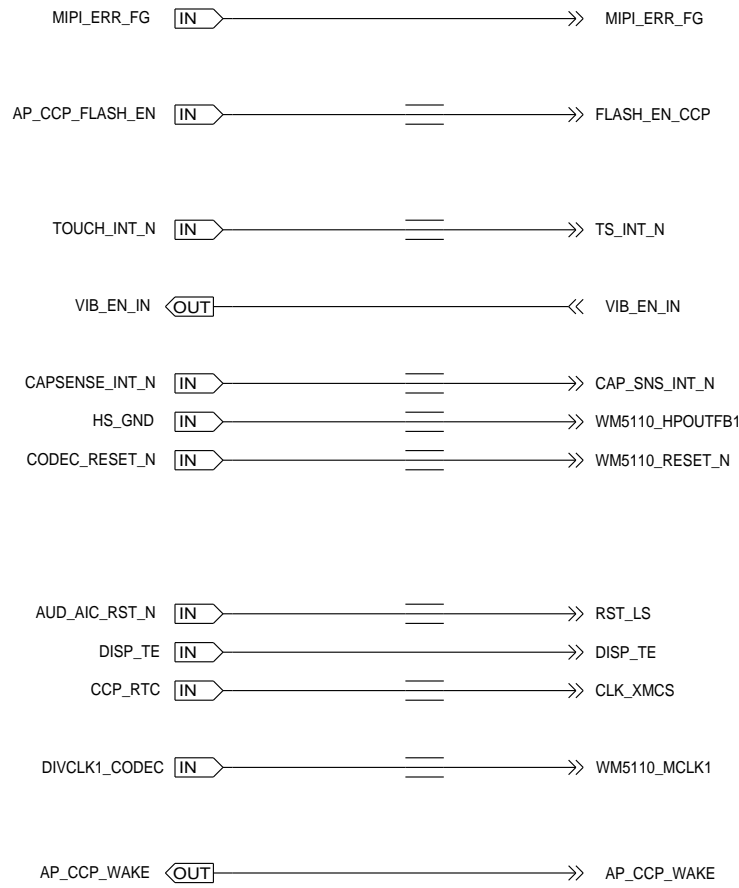
XMCS: PORTS

REF 6000-6999

INTERFACES



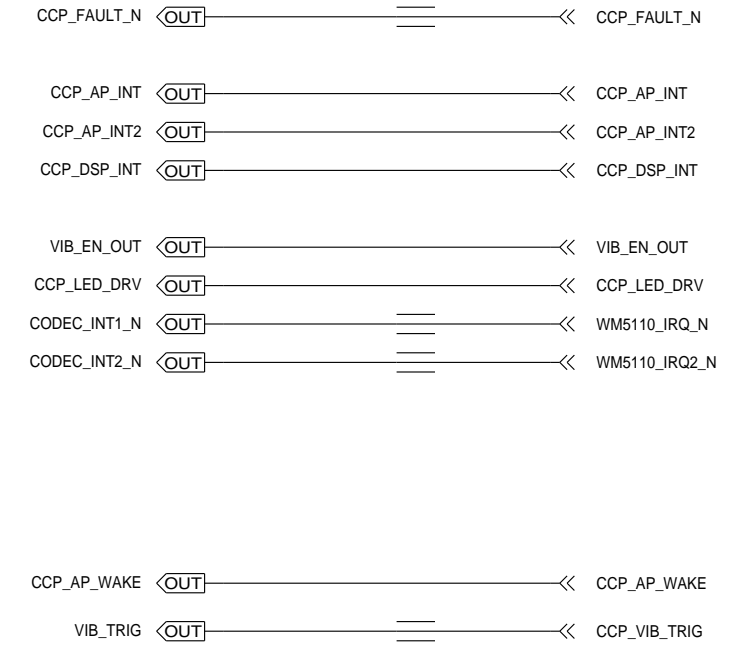
INPUTS



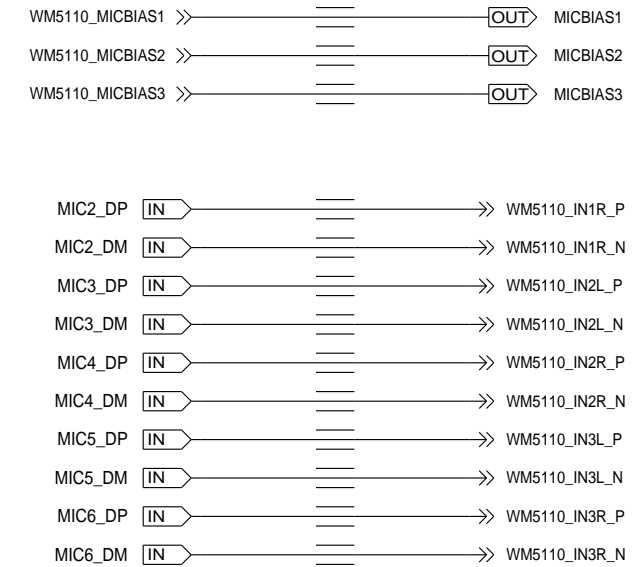
SPEAKER PATHS



OUTPUTS



MICROPHONES



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
 Thu Feb 05 12:31:05 2015

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BLOCK TITLE:

xmcs

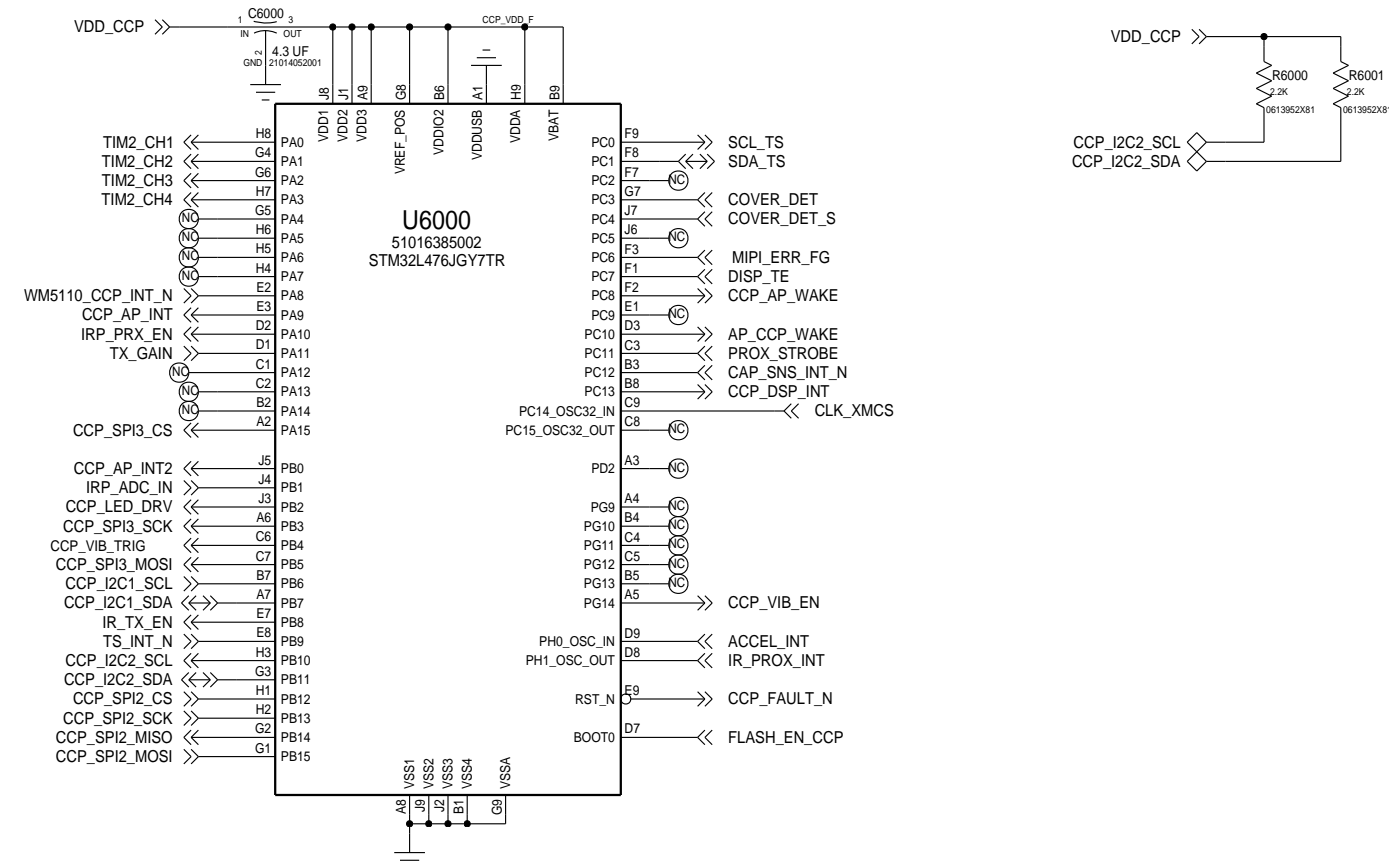
PROJECT NAME
 B 84016440001_c.cpm

REV
 01

CAD FILE NAME:

XMCS: CCP

REF: 6000-6049



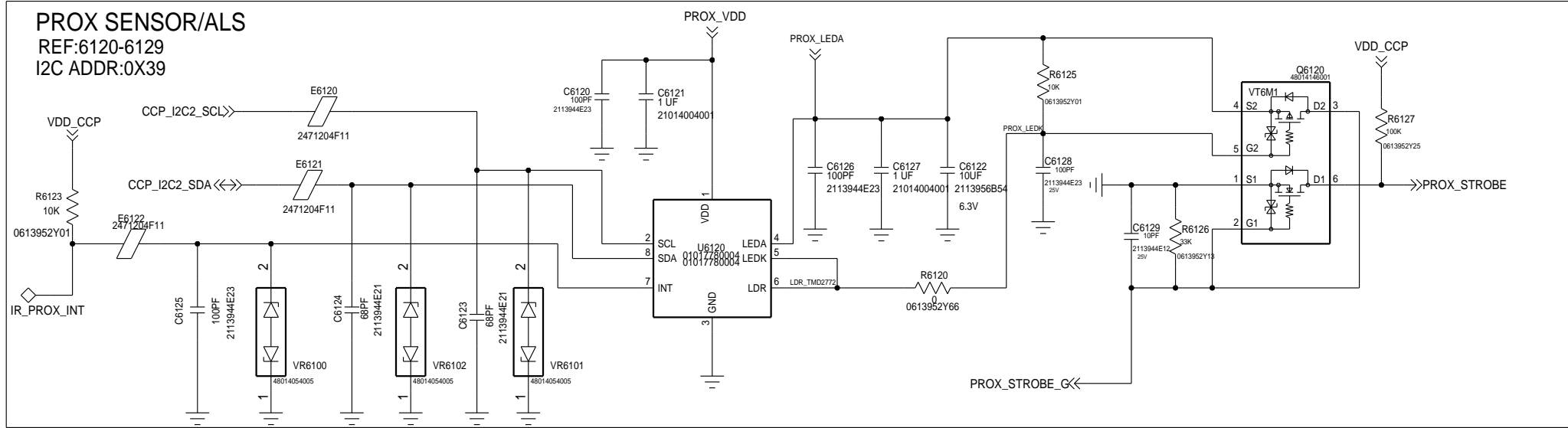
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: JOHN GORSICA		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:21 2015		xmcs	
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		CAD FILE NAME:	
		PAGE 34 OF 78	

XMCS: SENSORS

REF: 6100-6199

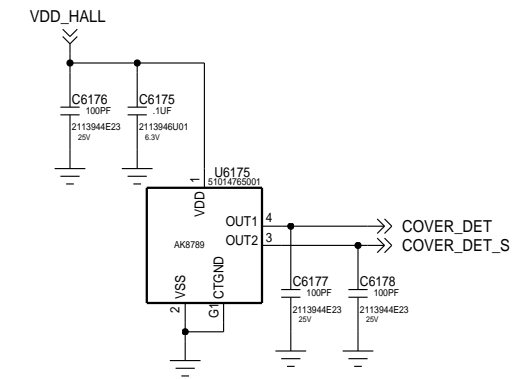
PROX SENSOR/ALS

REF:6120-6129
I2C ADDR:0X39



HALL EFFECT

REF:6170-6179

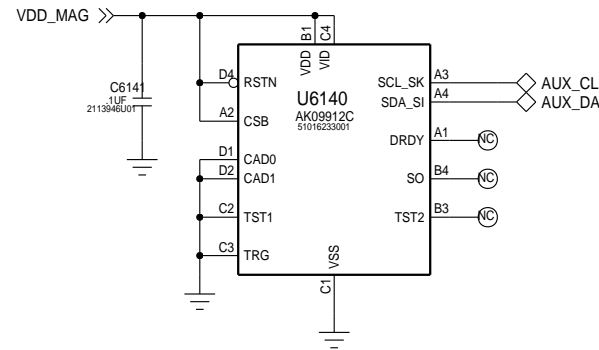


2ND HALL EFFECT FOR SMART COVER SUPPORT

MAGNETOMETER

REF:6140-6149

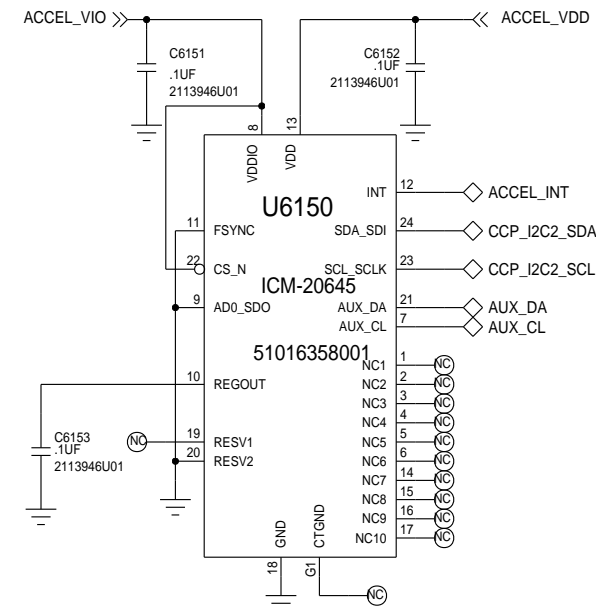
I2C ADDR: 0X0C



ACCELEROMETER+GYRO

REF:6150-6159

I2C ADDR: 0X68



PRODUCTS MUST FOLLOW BUNKER HILL PCB ORIENTATION

JOHN GORSICA/NATE CONNELL
APPROVALS



ENGINEER: C HERNANDEZ

BLOCK TITLE:

LAST MODIFIED BY: C HERNANDEZ
Mon Jun 15 13:22:22 2015

xmcs

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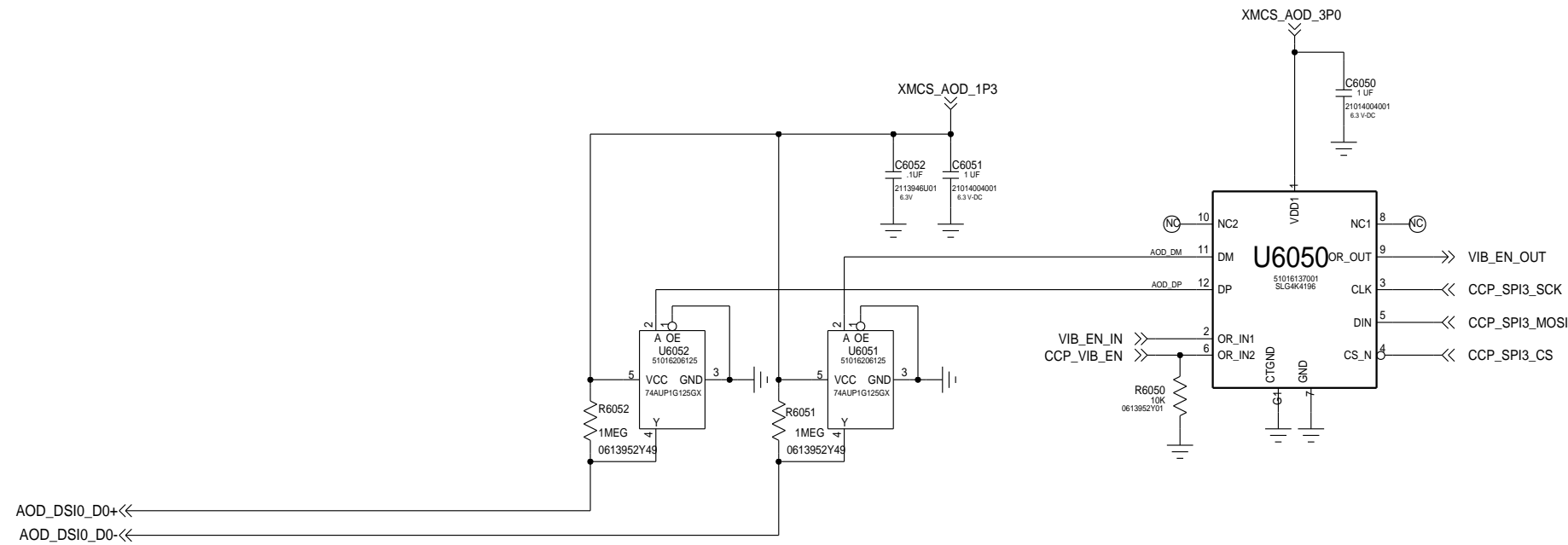
PROJECT NAME: 84016440001A
REV: 01

CAD FILE NAME:

PAGE 35 OF 78

XMCS: AOD

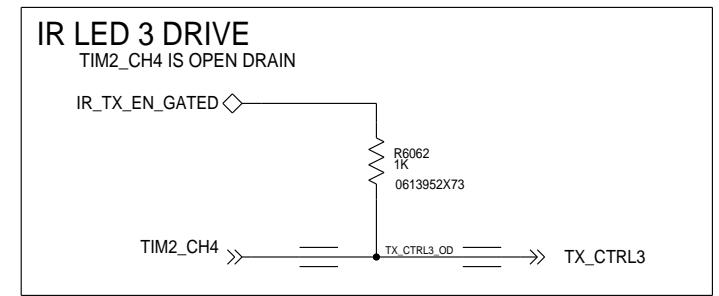
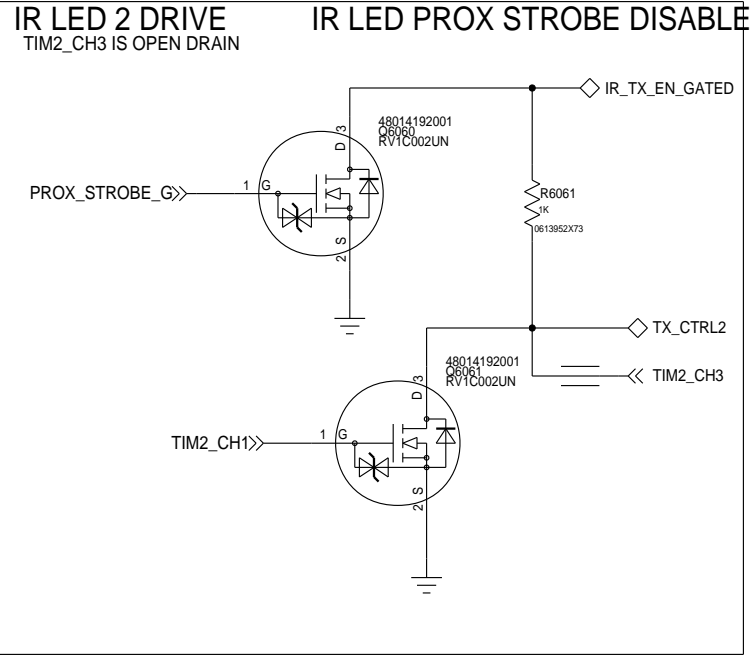
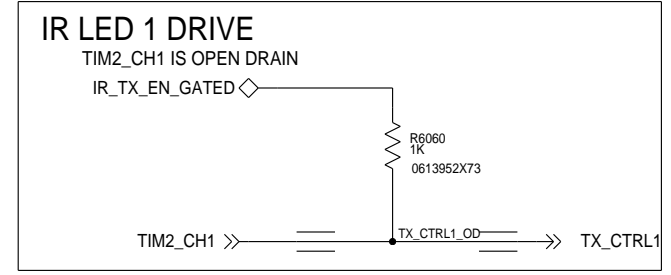
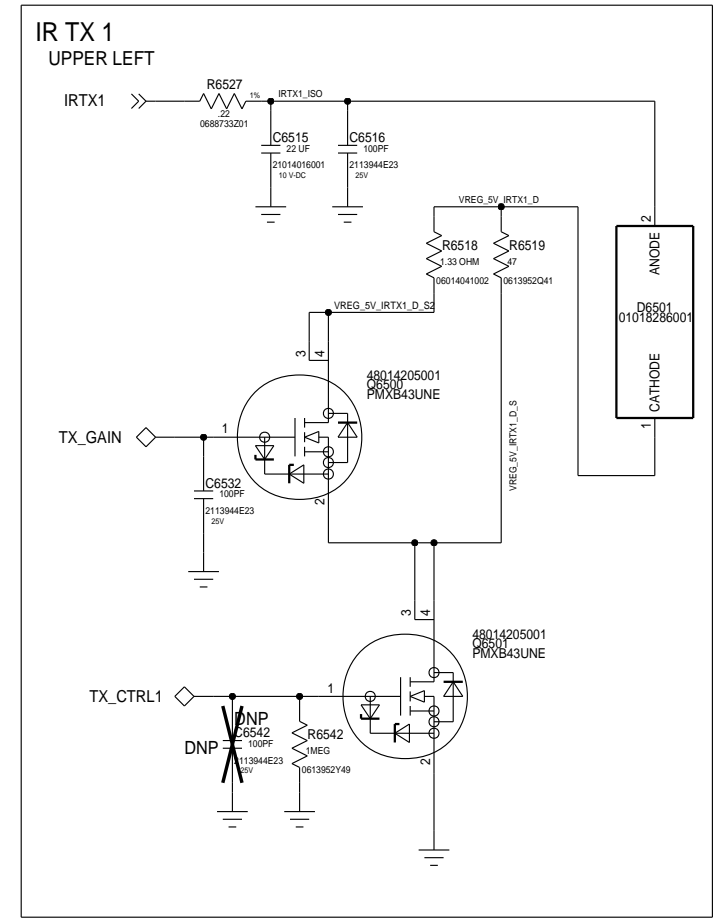
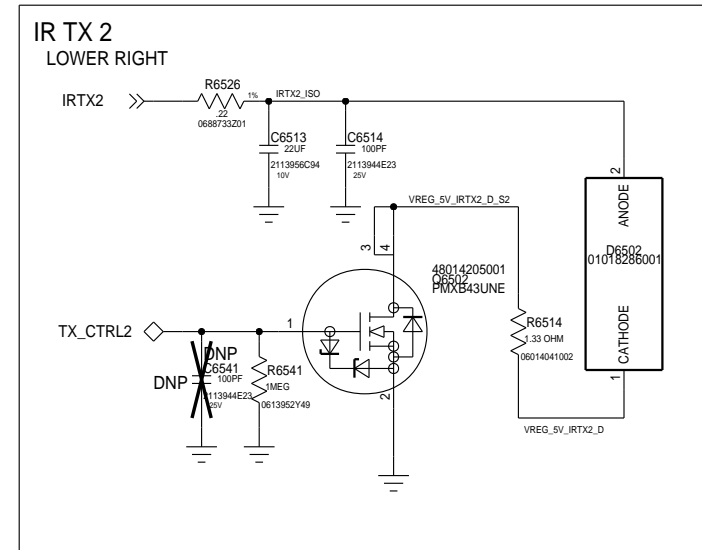
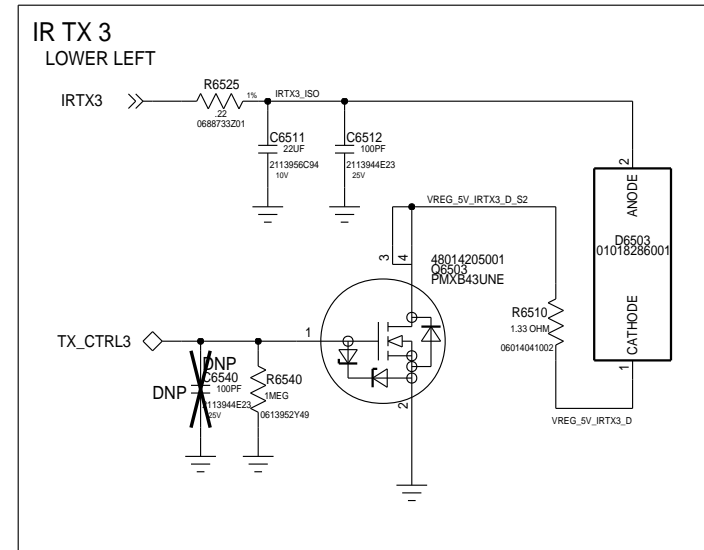
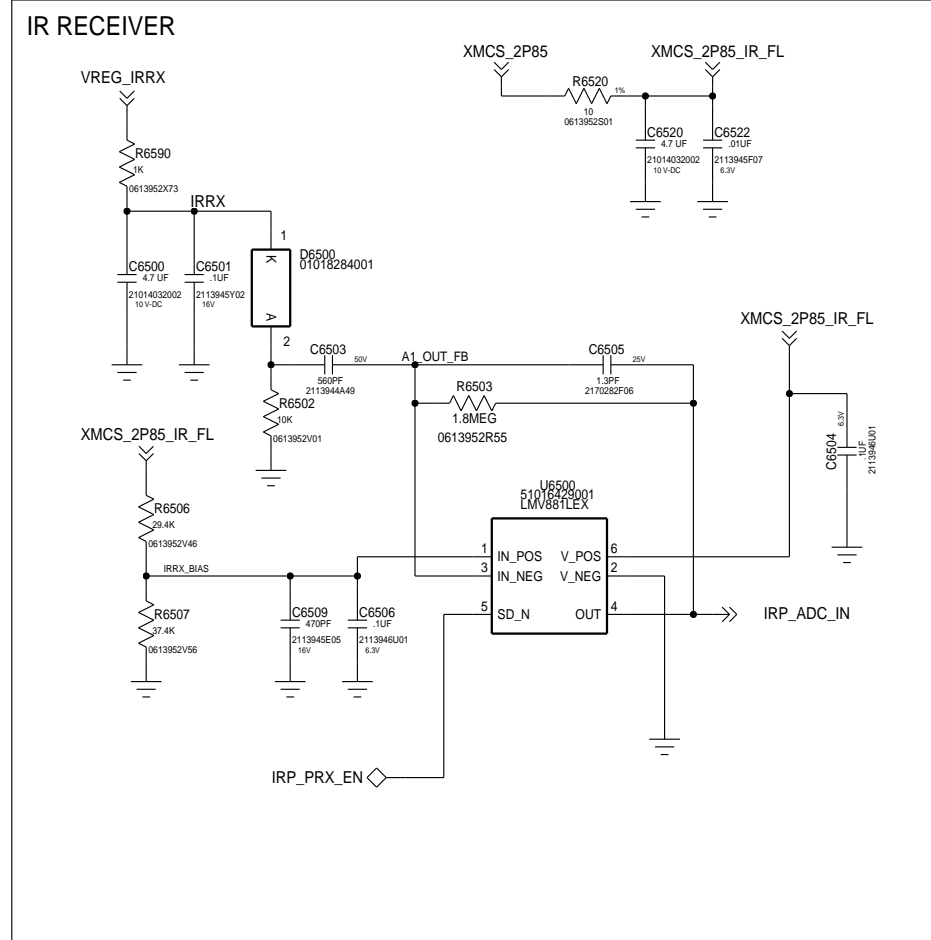
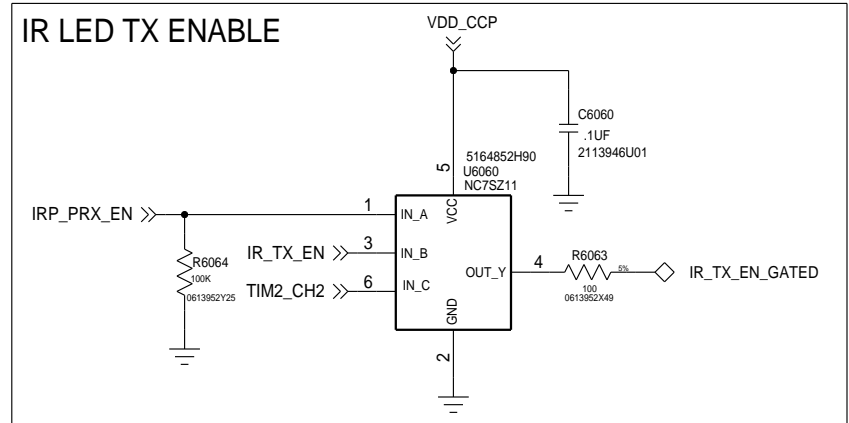
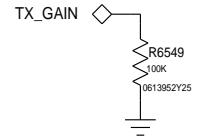
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ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Mon Jun 15 13:22:23 2015		xmcs	
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		CAD FILE NAME:	
		PAGE 36 OF 78	

XMCS: IR GESTURES

REF 6500-6549



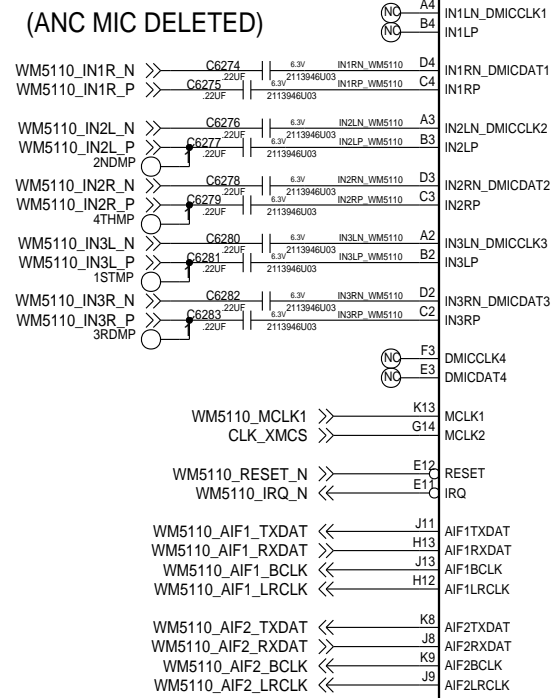
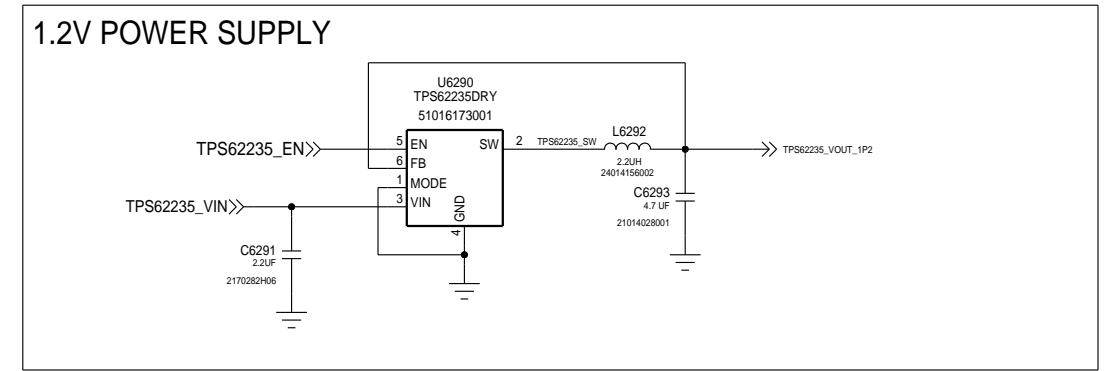
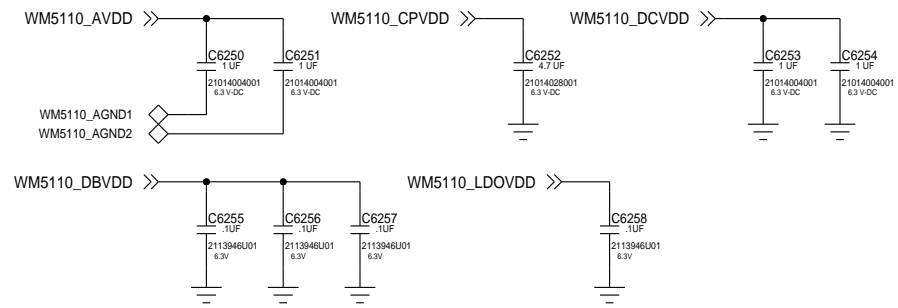
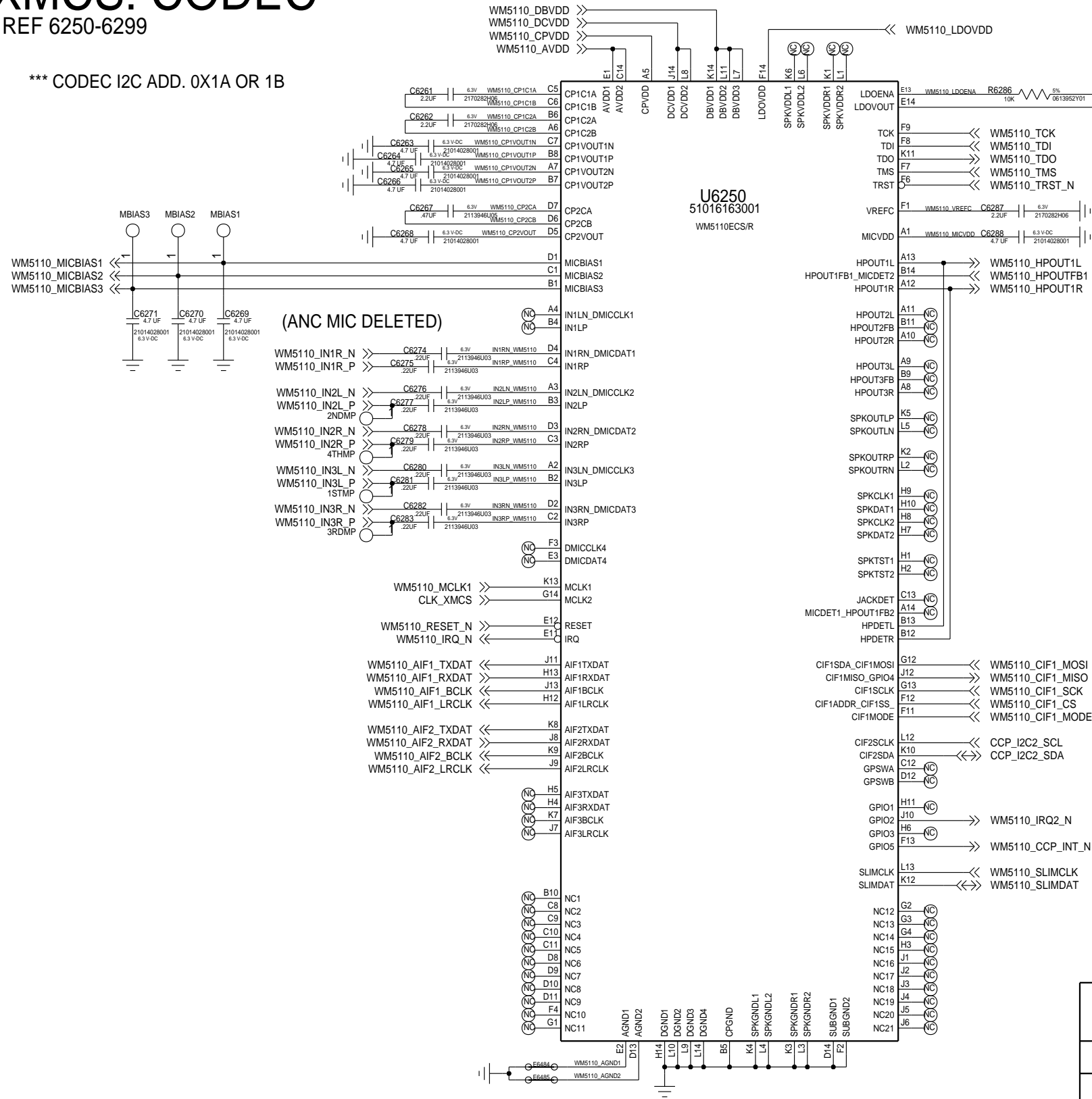
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS			
ENGINEER: MATT MOTTIER			
LAST MODIFIED BY: UDI ELRAN Mon Jun 15 13:22:24 2015		xmcs	
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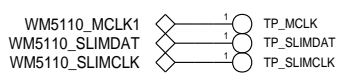
XMCS: CODEC

REF 6250-6299

*** CODEC I2C ADD. 0X1A OR 1B



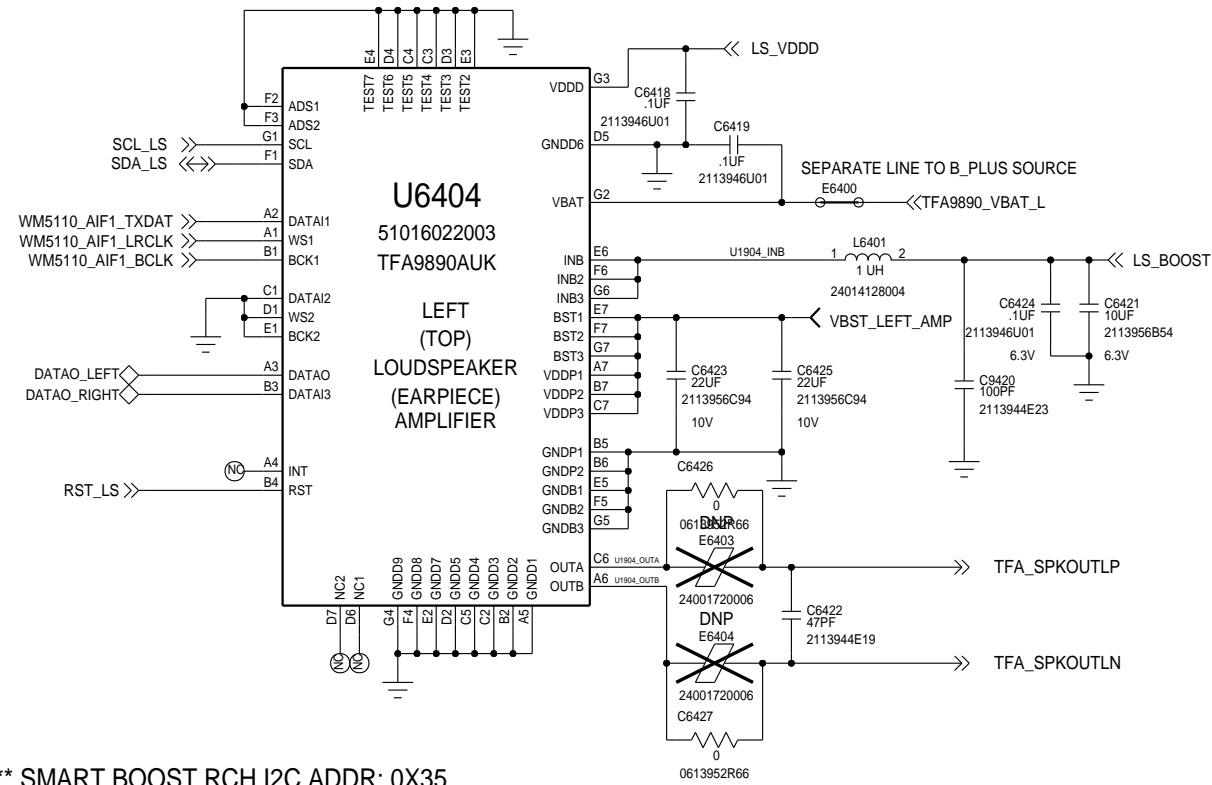
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ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		xmcs	
Mon Jun 15 13:22:24 2015		PROJECT NAME:	
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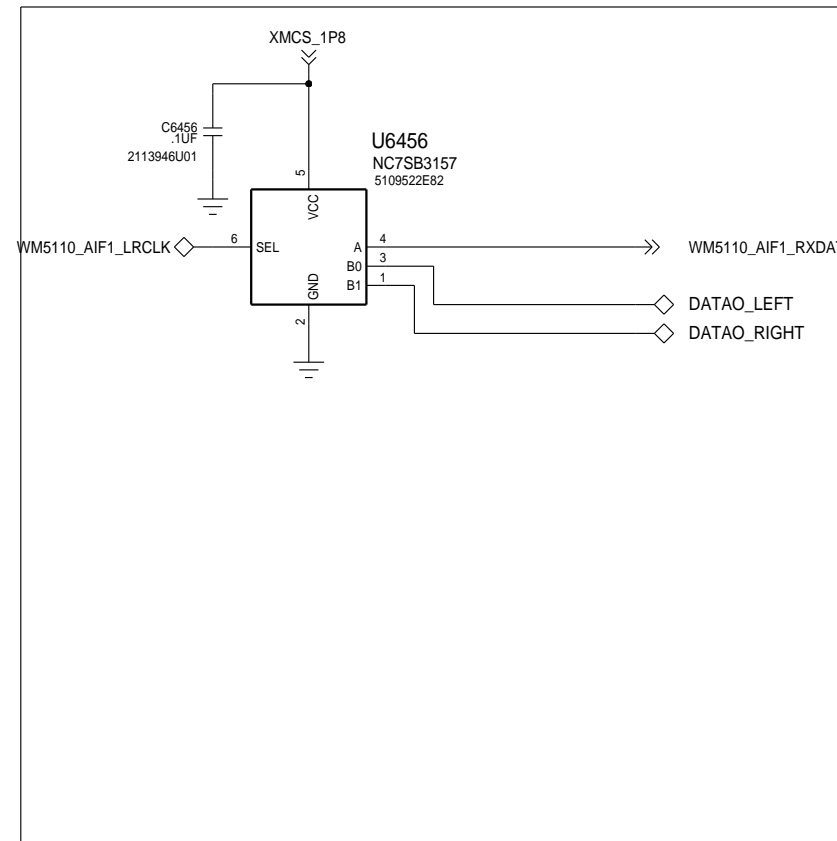
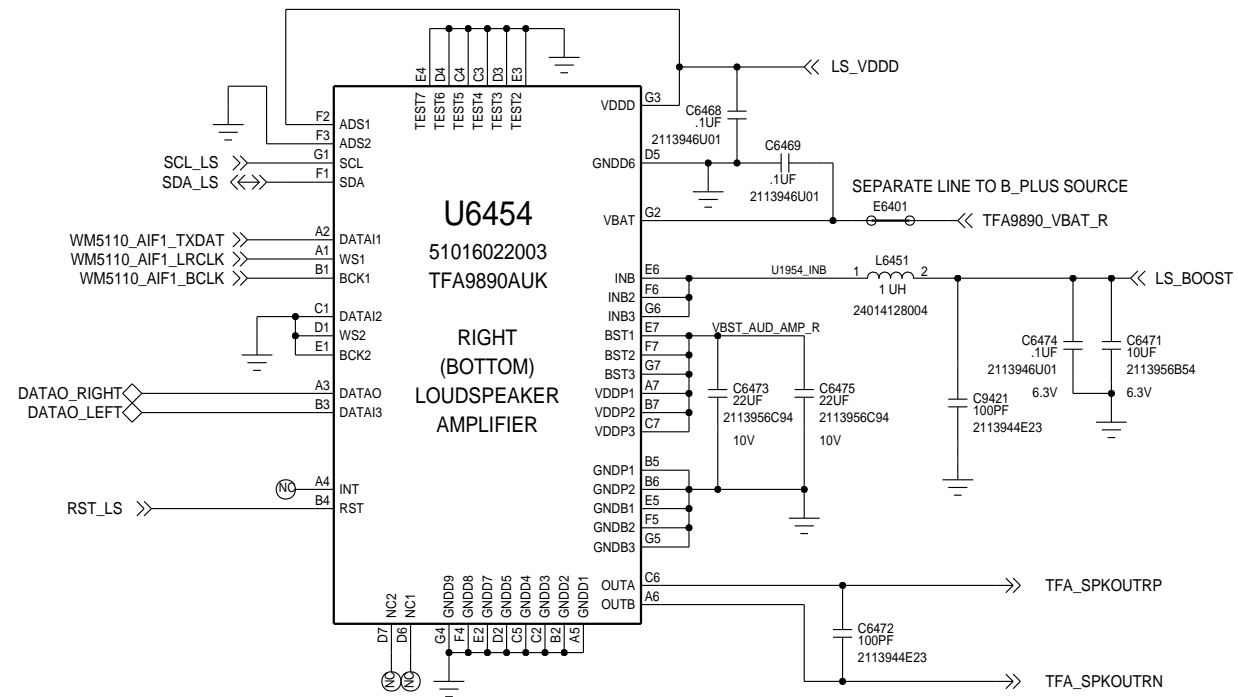
XMCS: LOUD SPEAKER

REF 6400-6499

*** SMART BOOST LCH I2C ADDR: 0X34



*** SMART BOOST RCH I2C ADDR: 0X35



APPROVALS

ENGINEER:

LAST MODIFIED BY:

Mon Jun 15 13:22:25 2015

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MOTOROLA
MOBILE DEVICES

BLOCK TITLE:

xmcs

PROJECT NAME

B 84016440001_c.cpm

CAD FILE NAME:

REV

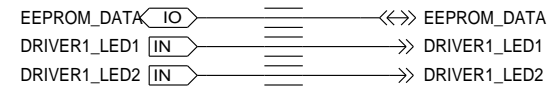
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PAGE 39 OF 78

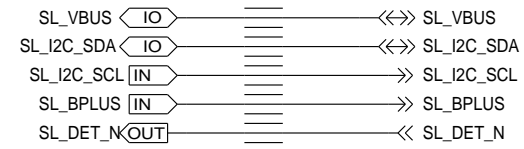
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REF: 800-999

CAMERA_FLASH

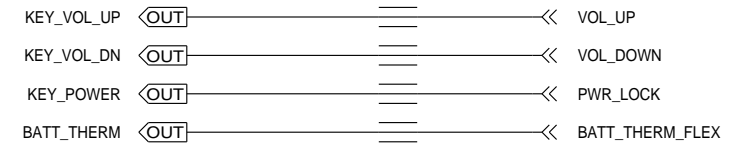



SLICE INTERFACES



GPIO - INPUT

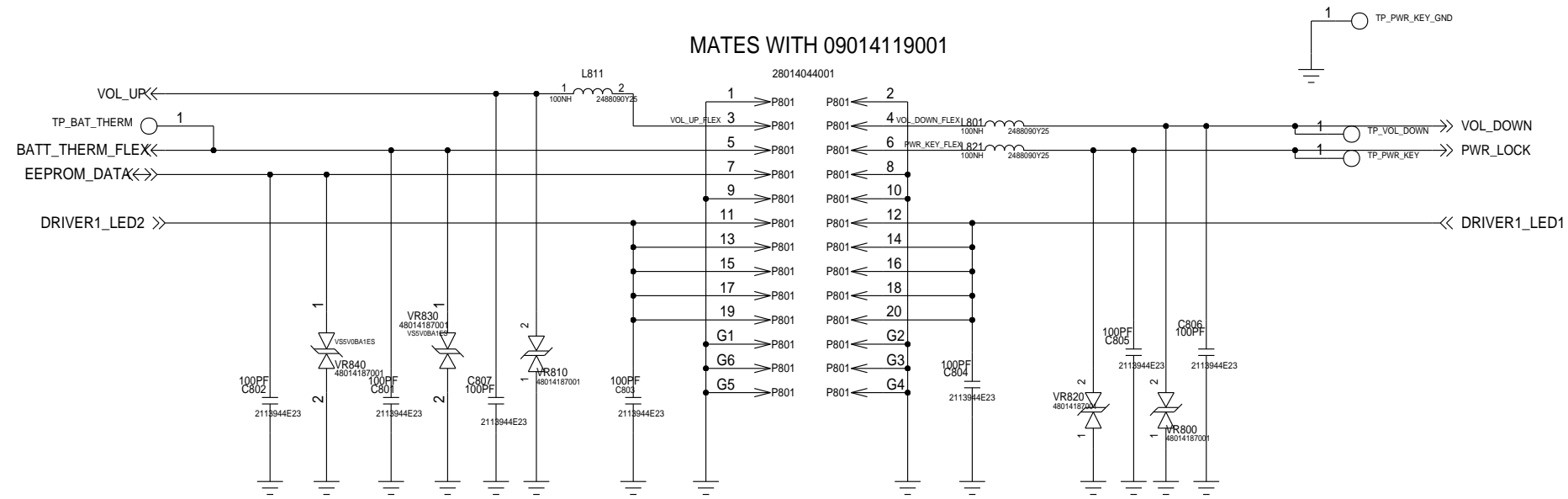
GPIO - OUTPUT



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Nov 26 14:04:42 2014		user_input	
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		B 84016440001_c.cpm	01
		PAGE 40 OF 78	

USR: INPUT

REF: 800-899

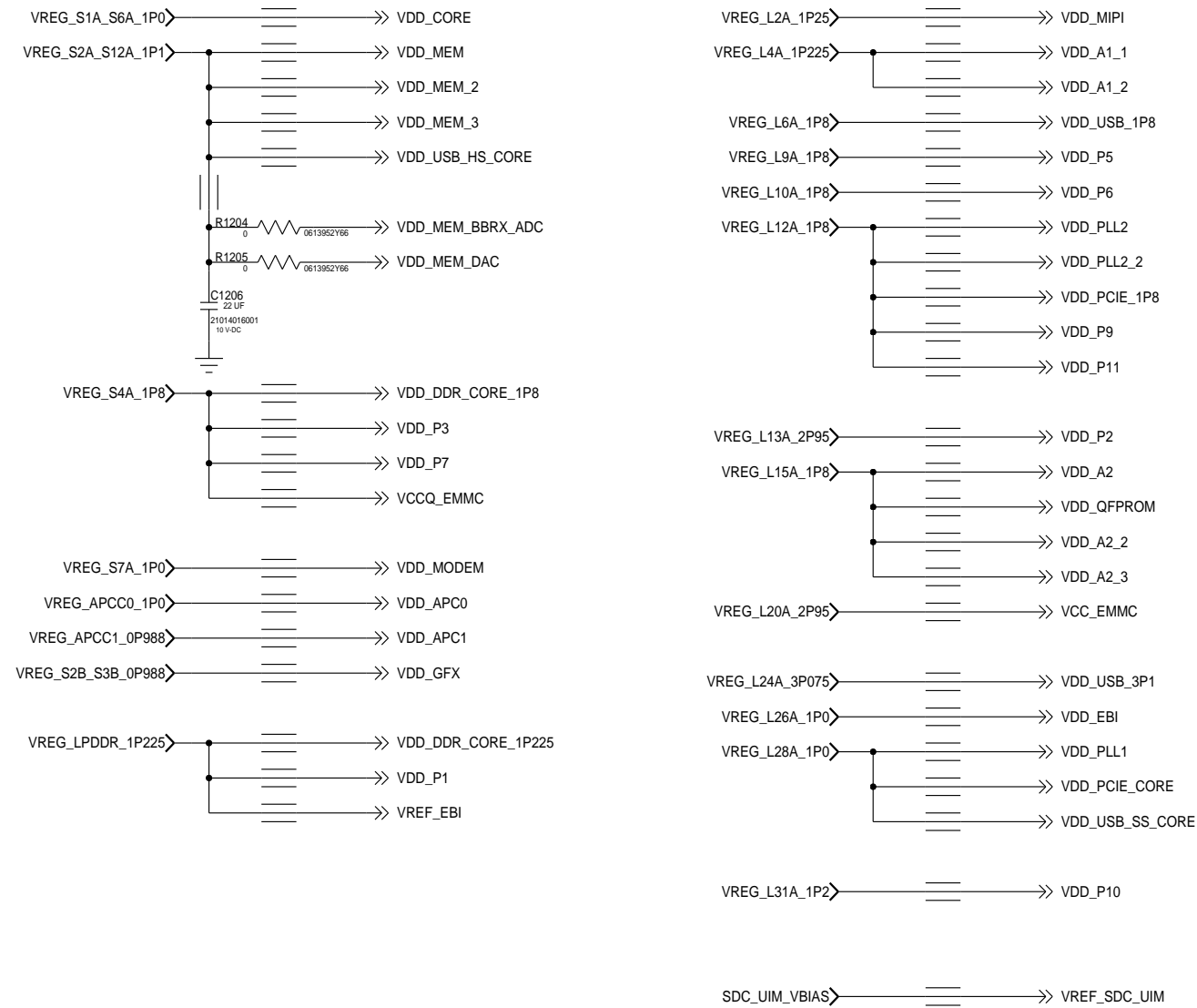


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:19 2015		user_input	
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		CAD FILE NAME:	PAGE 41 OF 78

MSM8992: POWER

REFDES: 1200-1299

SUPPLIES

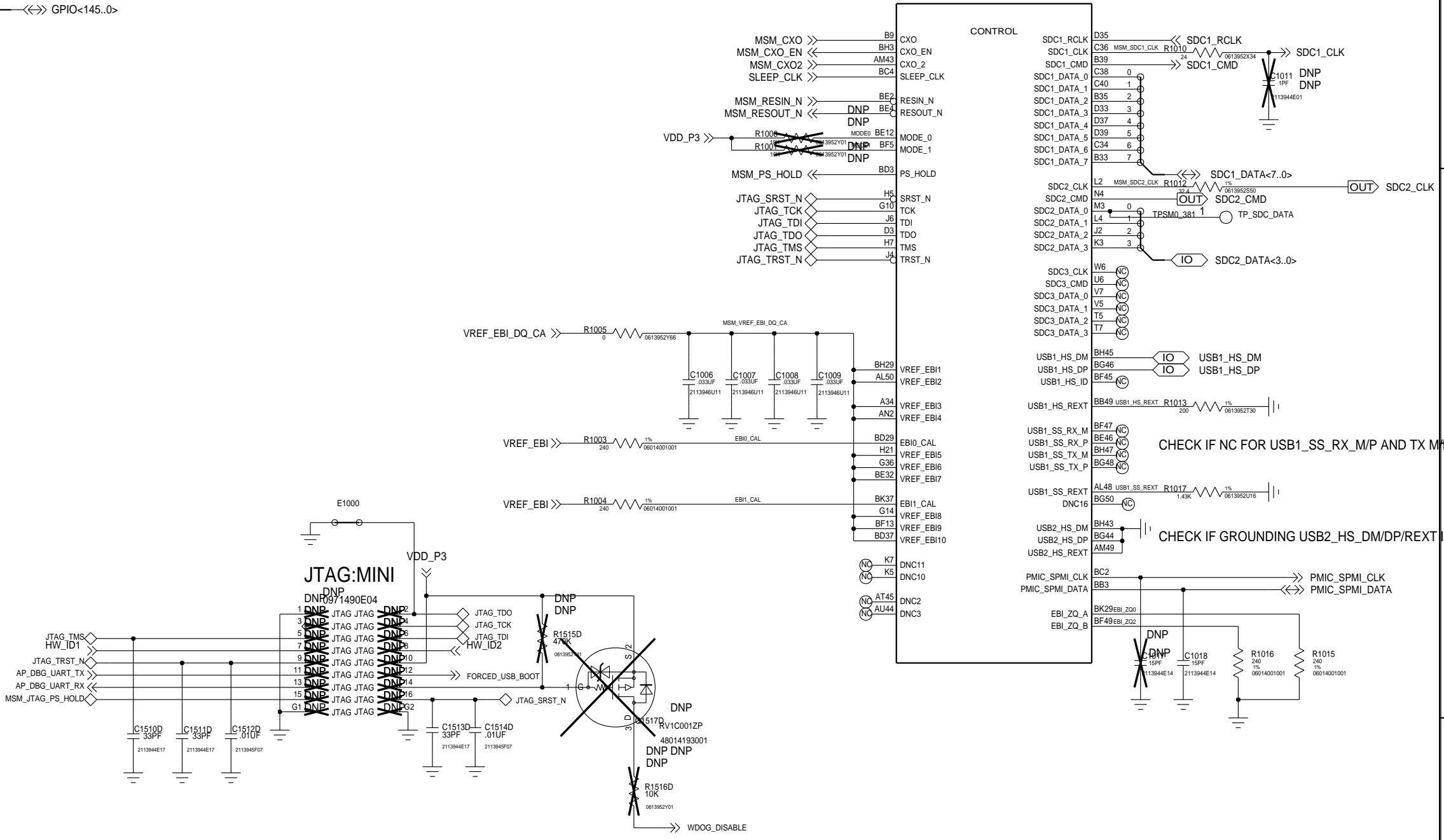


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon Jun 15 13:22:04 2015		ap_pmic	
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		B 84016440001_c.cpm	01
		CAD FILE NAME:	
		PAGE 42 OF 78	

MSM8992: CTRL/USB/GPIO

REFDES: 1000-1099

GPIO1		GPIO2	
0	G4	GPIO_0	AT7
1	G2	GPIO_1	AR6
2	H3	GPIO_2	C4
3	F3	GPIO_3	G8
4	F5	GPIO_4	BC6
5	G6	GPIO_5	BD5
6	F7	GPIO_6	BB5
7	E6	GPIO_7	BB7
8	AV3	GPIO_8	U2
9	AW4	GPIO_9	V3
10	AY3	GPIO_10	W4
11	AW2	GPIO_11	W2
12	BH5	GPIO_12	AL4
13	AK5	GPIO_13	AL2
14	AD7	GPIO_14	AK3
15	AP3	GPIO_15	AM3
16	AM5	GPIO_16	AT3
17	Y3	GPIO_17	AR2
18	AA4	GPIO_18	AR4
19	AA2	GPIO_19	AU2
20	Y1	GPIO_20	E8
21	AY7	GPIO_21	D7
22	AY5	GPIO_22	F9
23	AW6	GPIO_23	C6
24	BA6	GPIO_24	D5
25	AA6	GPIO_25	E4
26	AB7	GPIO_26	R2
27	AB5	GPIO_27	BF7
28	AC6	GPIO_28	BE8
29	AN4	GPIO_29	BE6
30	R6	GPIO_30	BD9
31	BG42	GPIO_31	BD7
32	BF41	GPIO_32	B11
33	BG40	GPIO_33	D11
34	BH39	GPIO_34	C10
35	AP7	GPIO_35	B7
36	AT5	GPIO_36	AD5
74	AP5	GPIO_74	AC4
75	AN6	GPIO_75	AF5
76	AL6	GPIO_76	AH5
77	AG6	GPIO_77	AH7
78	Y7	GPIO_78	AJ6
79	Y5	GPIO_79	AJ4
80	R4	GPIO_80	B41
81	E10	GPIO_81	A42
82	F11	GPIO_82	B43
83	D9	GPIO_83	BC8
84	C8	GPIO_84	BG4
85	AJ2	GPIO_85	BE10
86	AH1	GPIO_86	BG10
87	AJ4	GPIO_87	BH9
88	AH3	GPIO_88	BJ12
89	AB3	GPIO_89	BH7
90	AE6	GPIO_90	P7
91	AG4	GPIO_91	BA2
92	AD3	GPIO_92	BG14
93	AE4	GPIO_93	BF9
94	AE2	GPIO_94	BG6
95	AF3	GPIO_95	F3
96	AG2	GPIO_96	N2
97	AU4	GPIO_97	P5
98	AU6	GPIO_98	BG8
99	BA4	GPIO_99	BG12
100	AV5	GPIO_100	E42
101	AV7	GPIO_101	C42
102	AV43	GPIO_102	F41
103	BH11	GPIO_103	H41
104	AT43	GPIO_104	A44
105	BH13	GPIO_105	B45
106	BJ8	GPIO_106	C46
107	BJ14	GPIO_107	D43
108	BK5	GPIO_108	C44
109	BJ10	GPIO_109	F43



U1001
51016438001
H9CKNNNDATMTDR-NUH

POP DDR

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ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		ap_pmic	
Tue Jun 16 13:47:47 2015			
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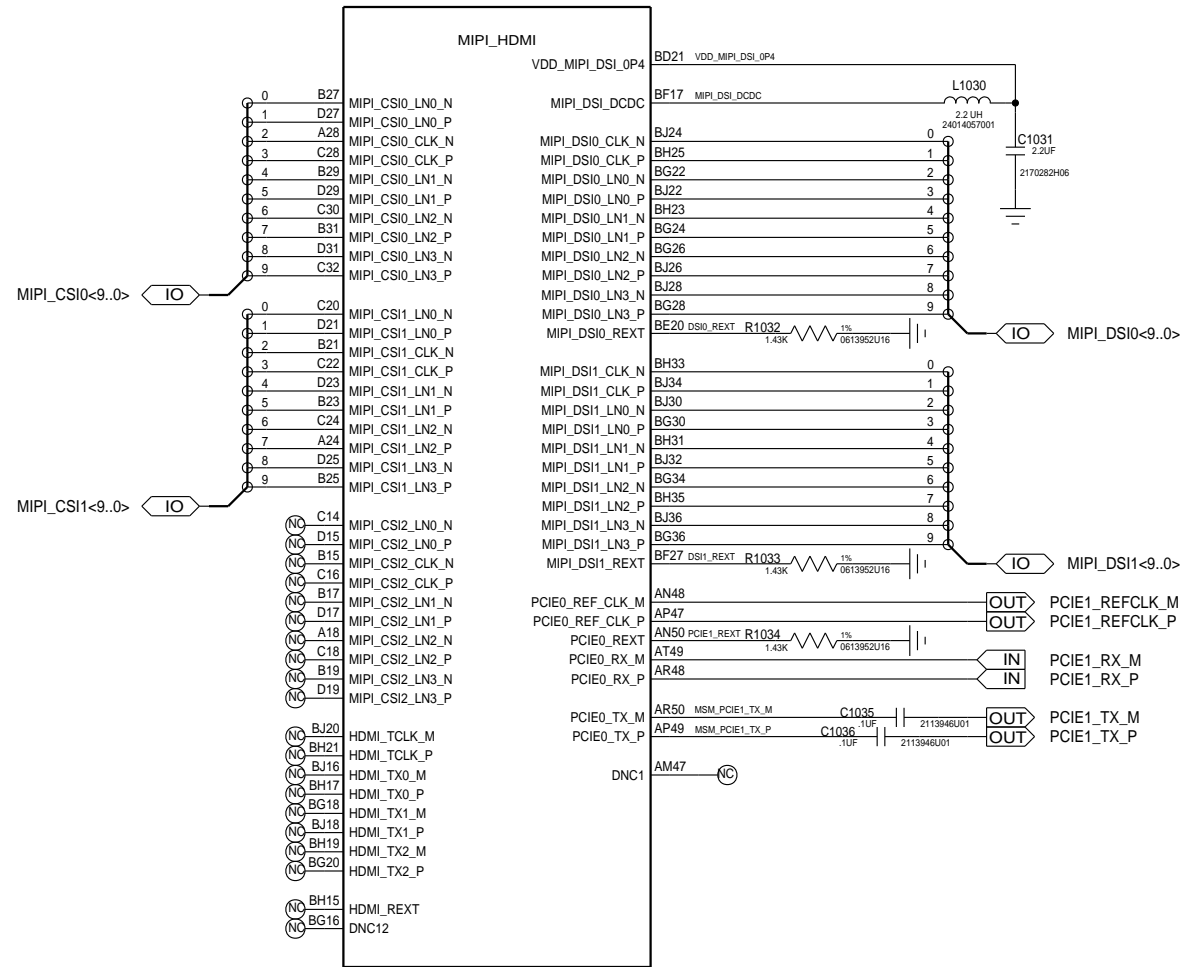
BASED ON 80-NJ052-41 REV. A

MSM8992: MIPI/HDMI/PCIE

REFDES: 1030-1039

QCOM REFERENCE DESIGN HAS REAR CAMERA ON CSIO AND FRONT CAMERA ON CSI2.

51016434001
U1000
MSM8992-3



QCOM REFERENCE DESIGN HAS 1.43K 1% PULL-DOWN ON THE HDMI_REXT PIN.

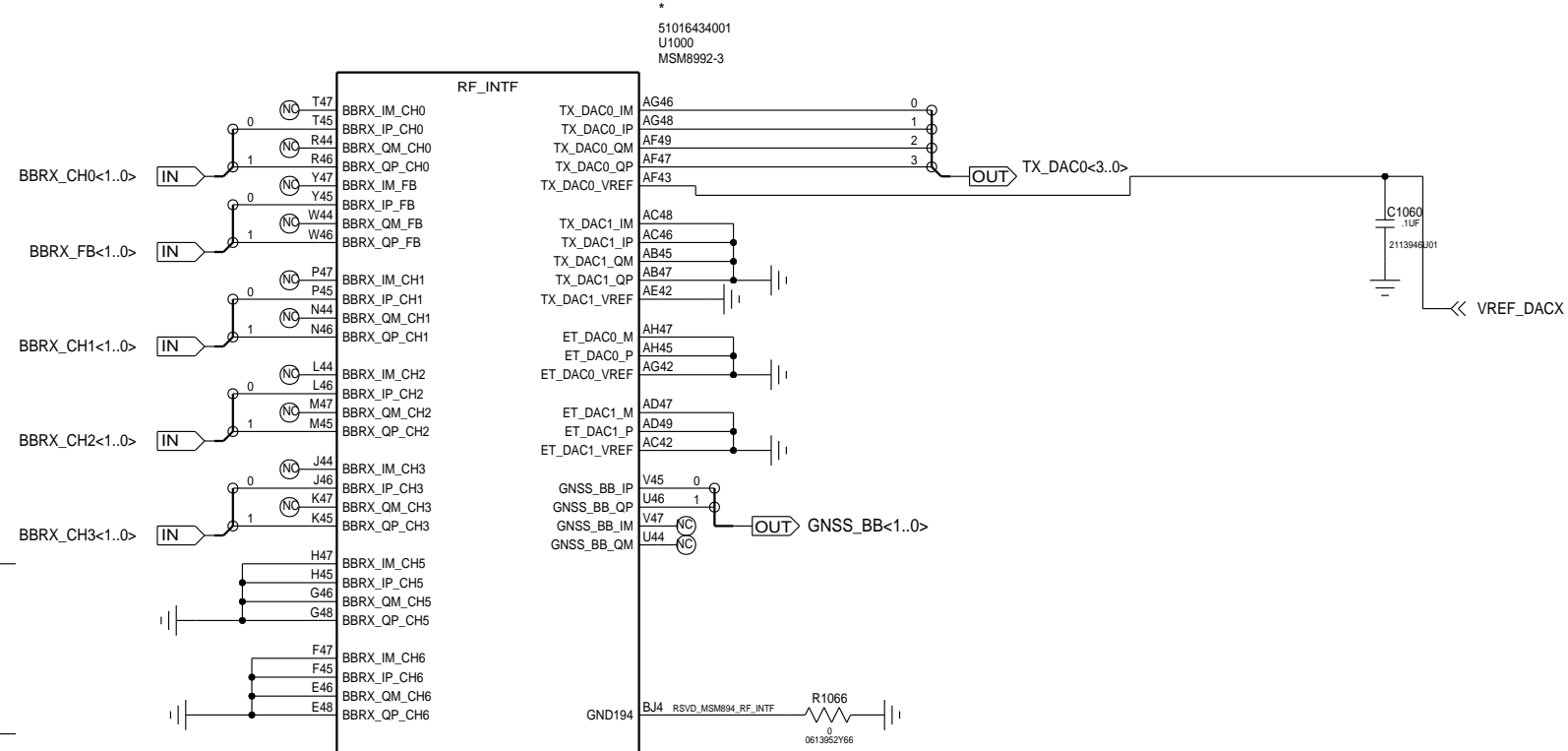
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		CAD FILE NAME:	
		PAGE 44 OF 78	

MSM8992: RF INTERFACE

REFDES: 1040-1049



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APPROVALS		MOTOROLA MOBILE DEVICES	
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		CAD FILE NAME:	
		PAGE 45 OF 78	

BASED ON 80-NJ051-41 REV. B

MSM8992: POWER 1

8 7 6 5 4 3 2 1

D

D

C

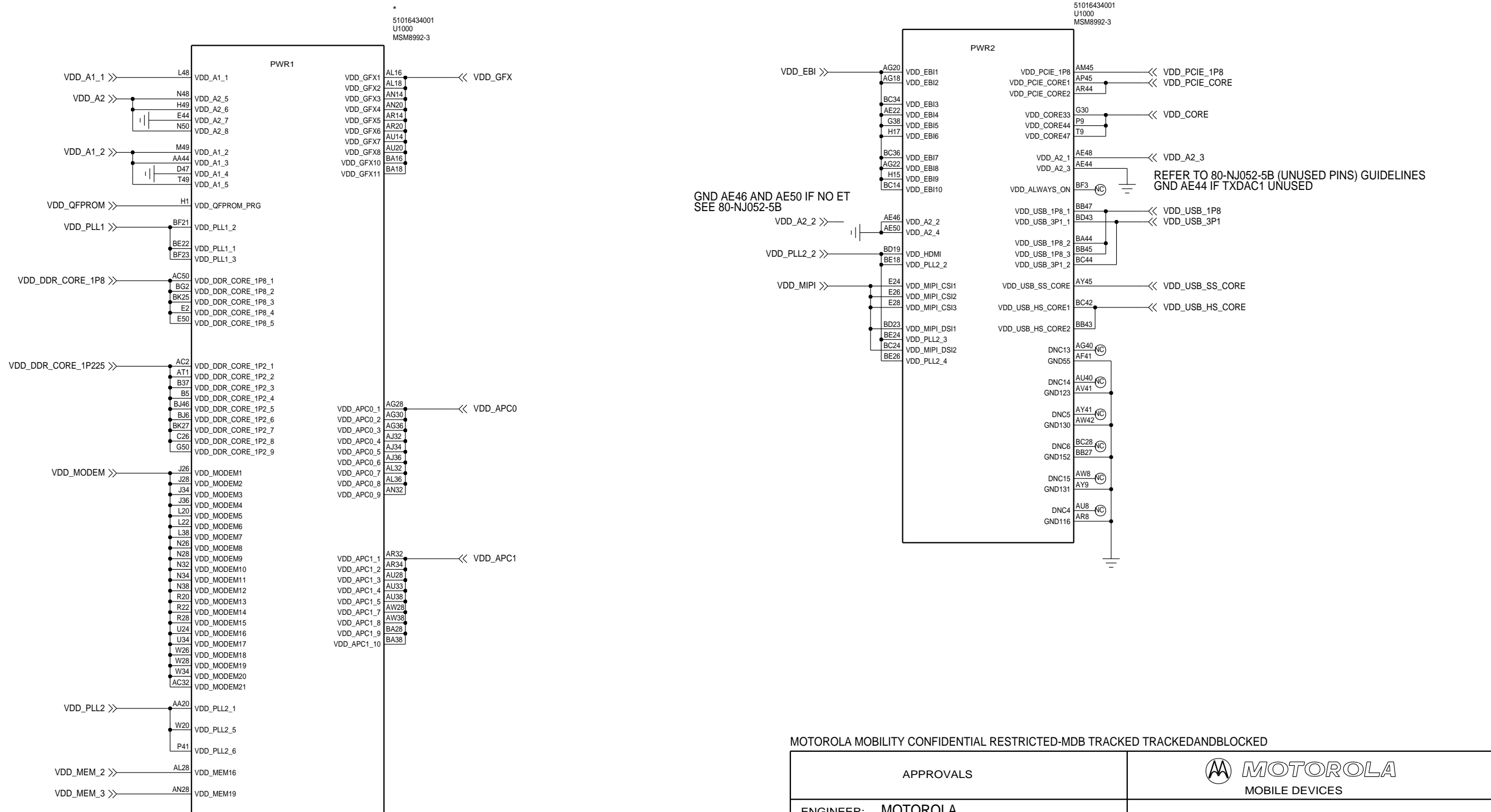
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B

B

A

A



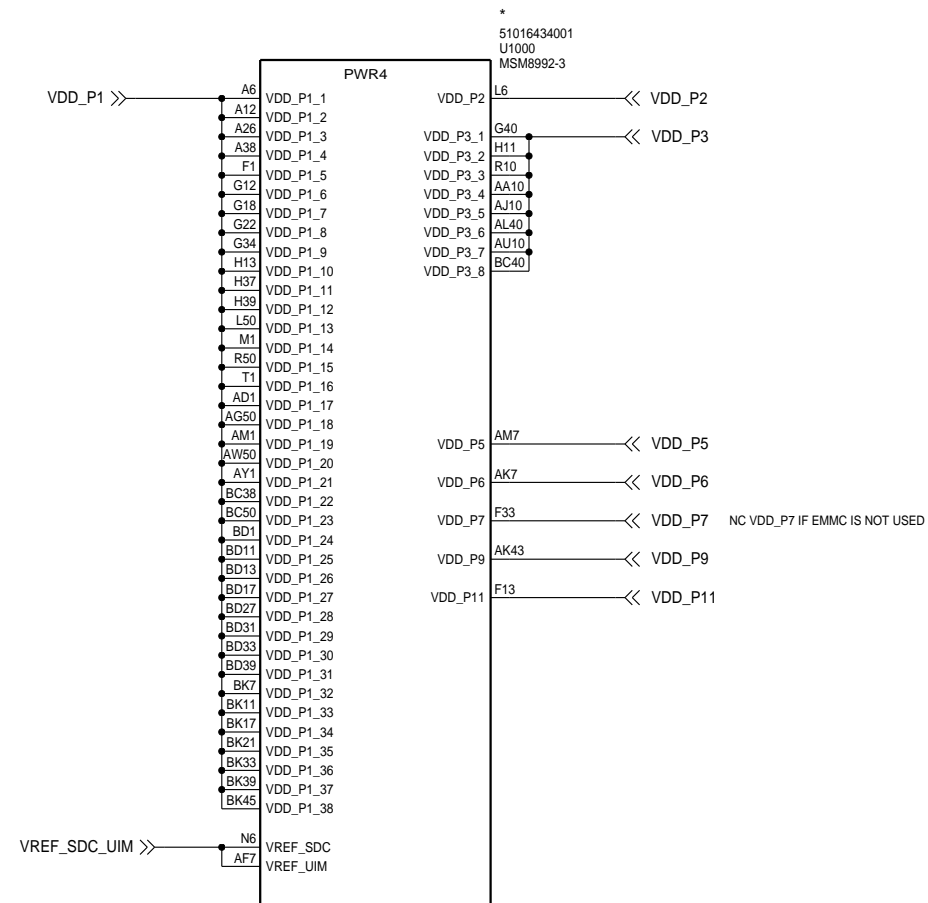
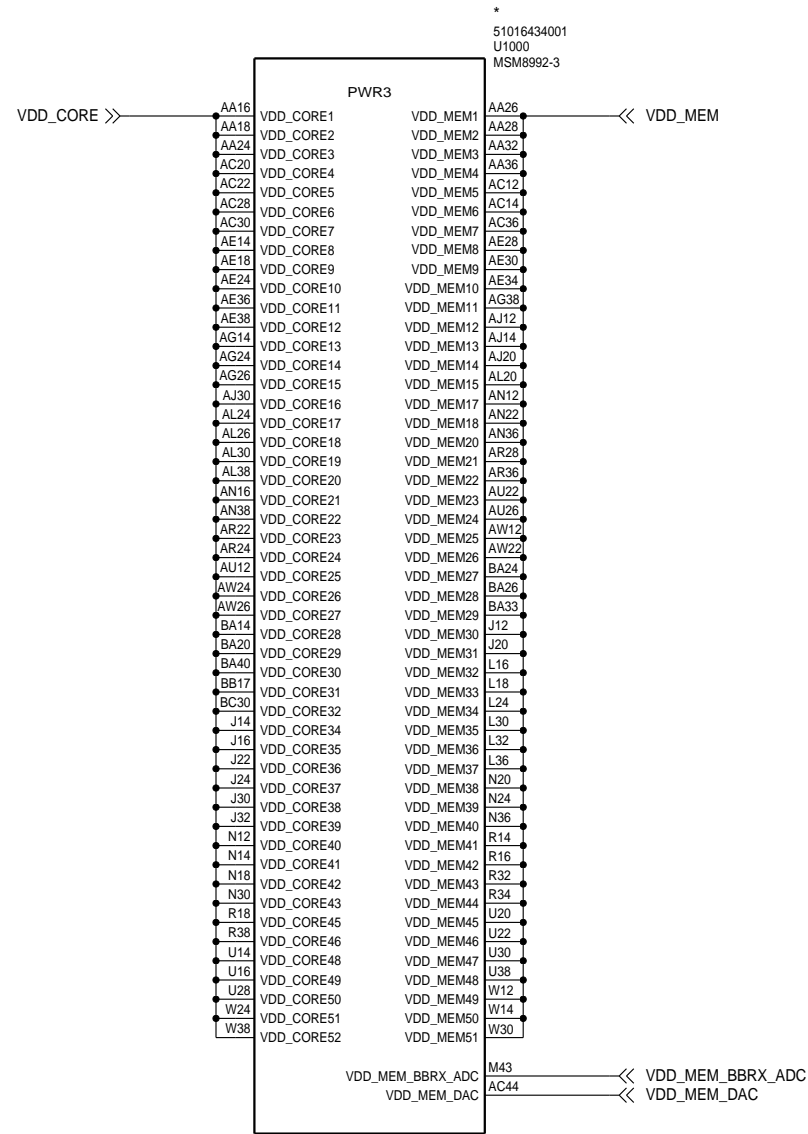
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CAD FILE NAME:		PAGE 46 OF 78	

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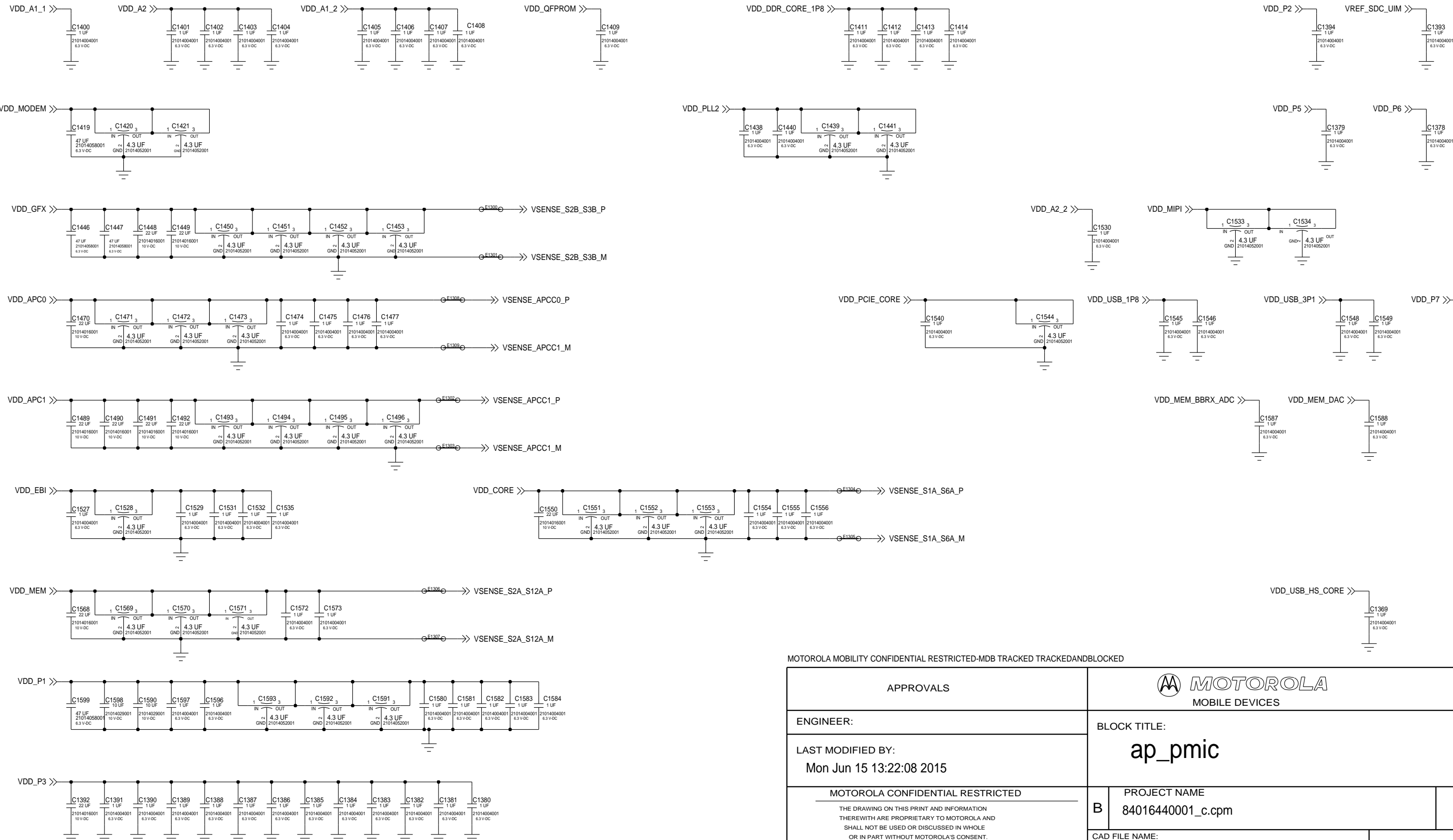
MSM8992: POWER 2



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		CAD FILE NAME:	
		PAGE 47 OF 78	


MSM8992: BYPASS CAPS

REFDES: 1300-1599

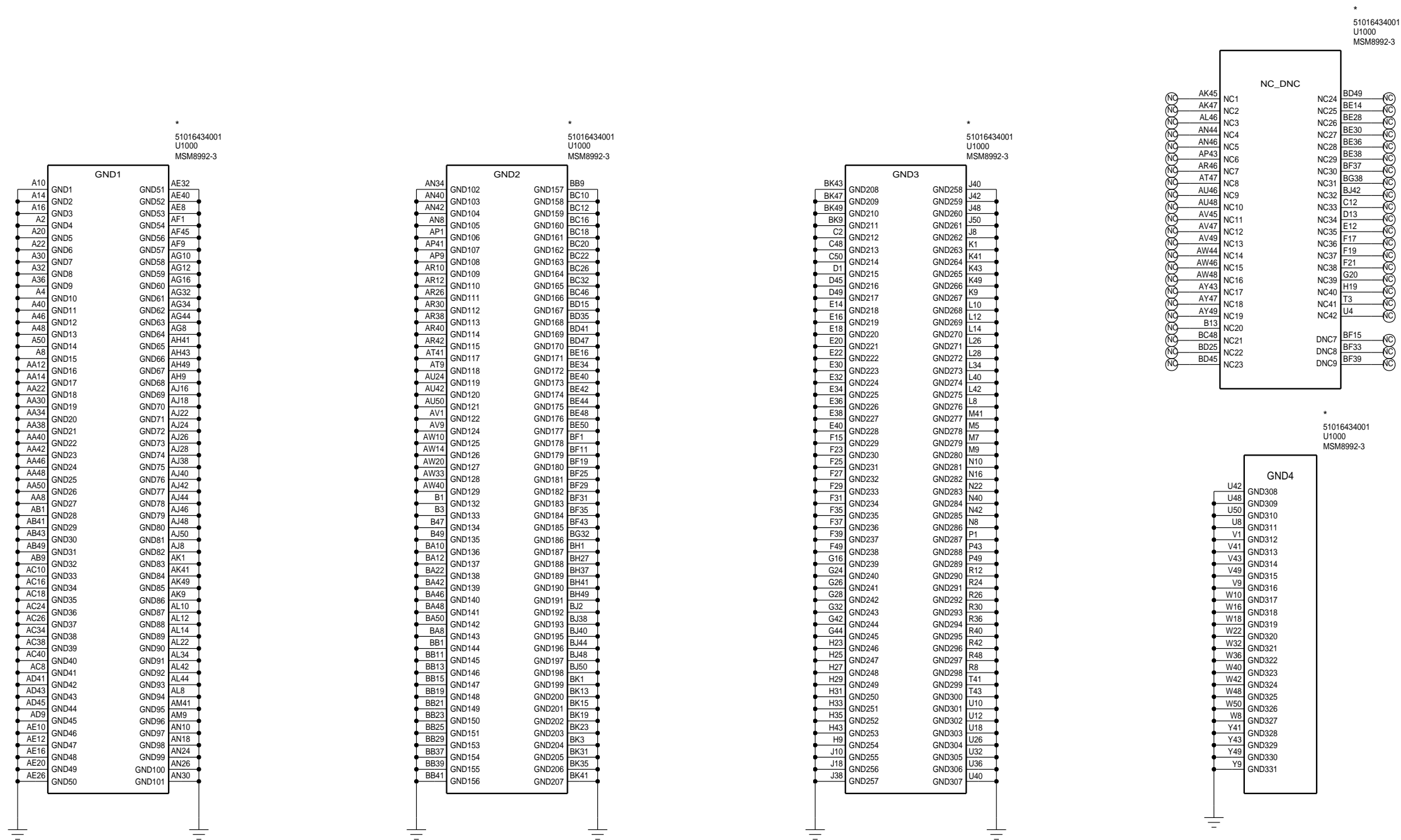


BASED ON 80-NJ051-41 REV. B

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MSM8992: GND/NC



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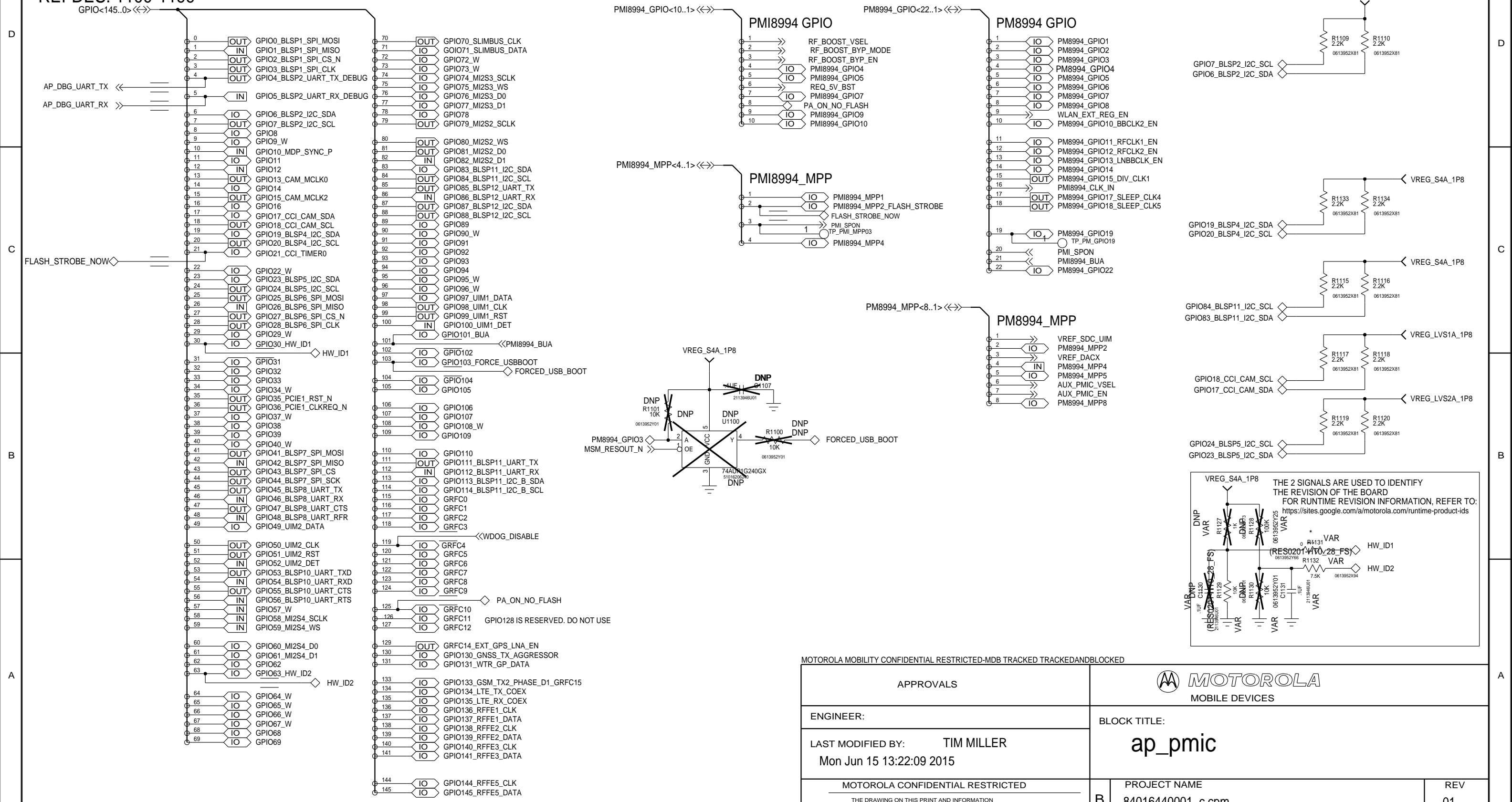
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BASED ON 80-NJ051-41 REV. A

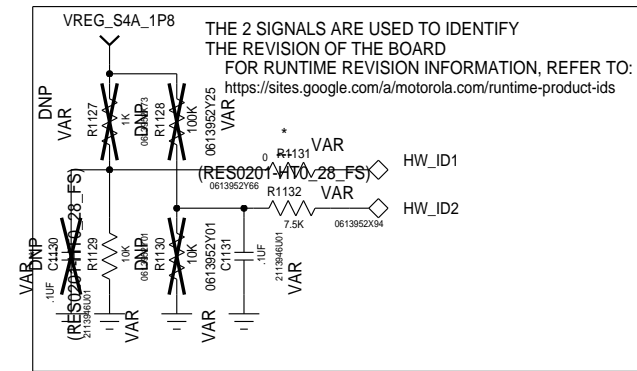
MSM8992: GPIO MAP

PURPLE=MOT CUSTOM
CYAN=QCOM REFERENCE

REFDES: 1100-1199



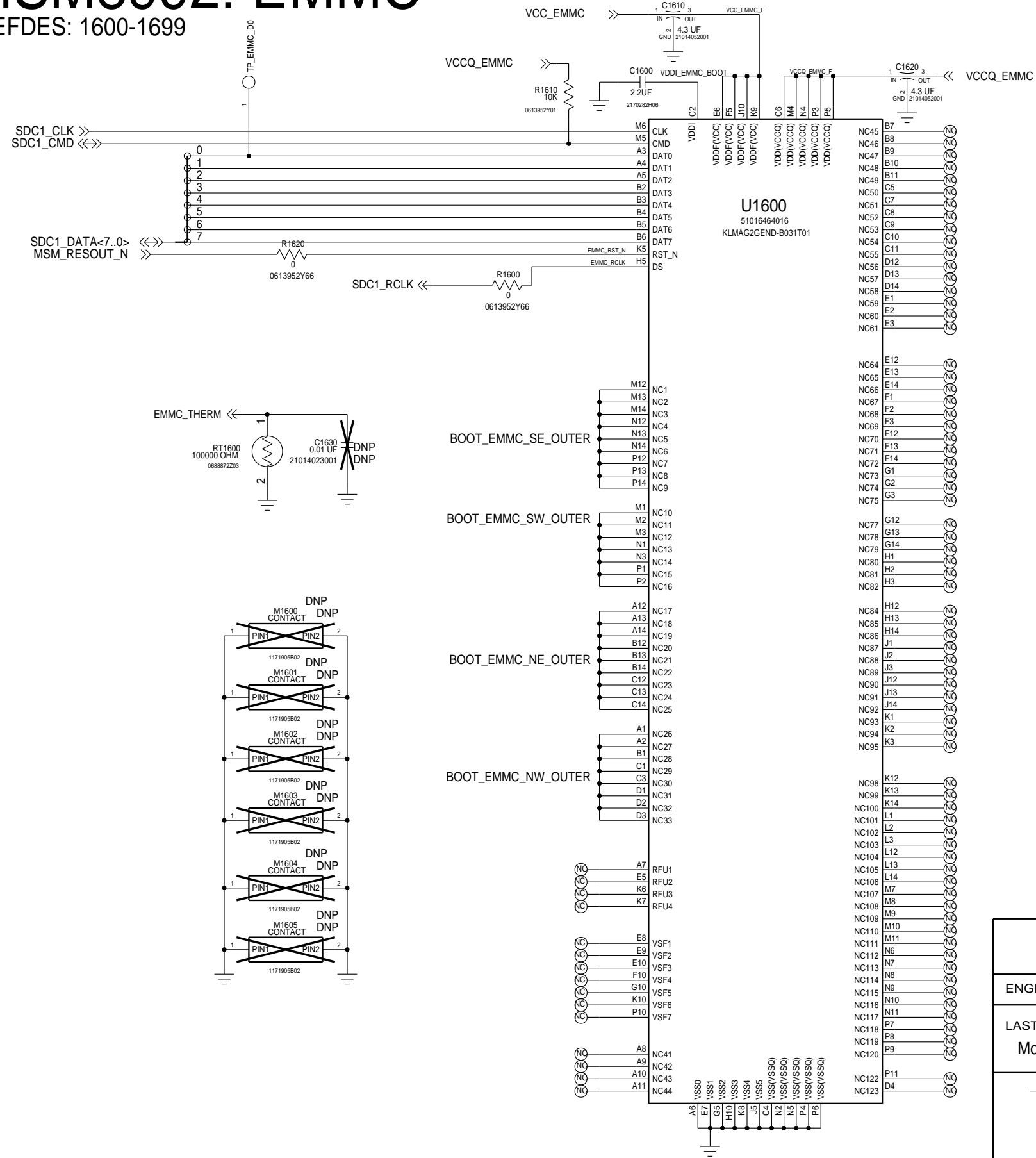
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		PAGE 50 OF 78	

MSM8992: EMMC

REFDES: 1600-1699



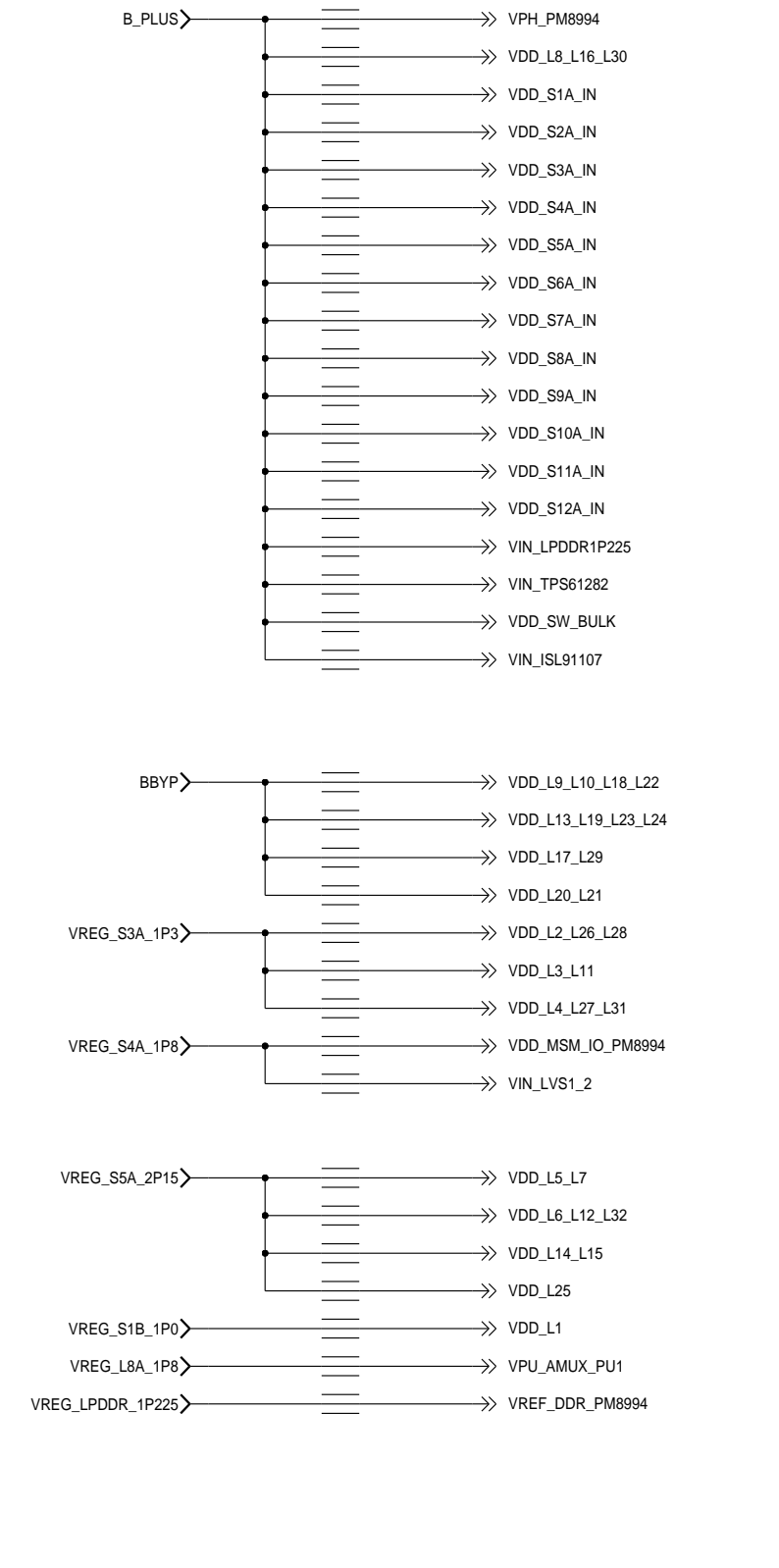
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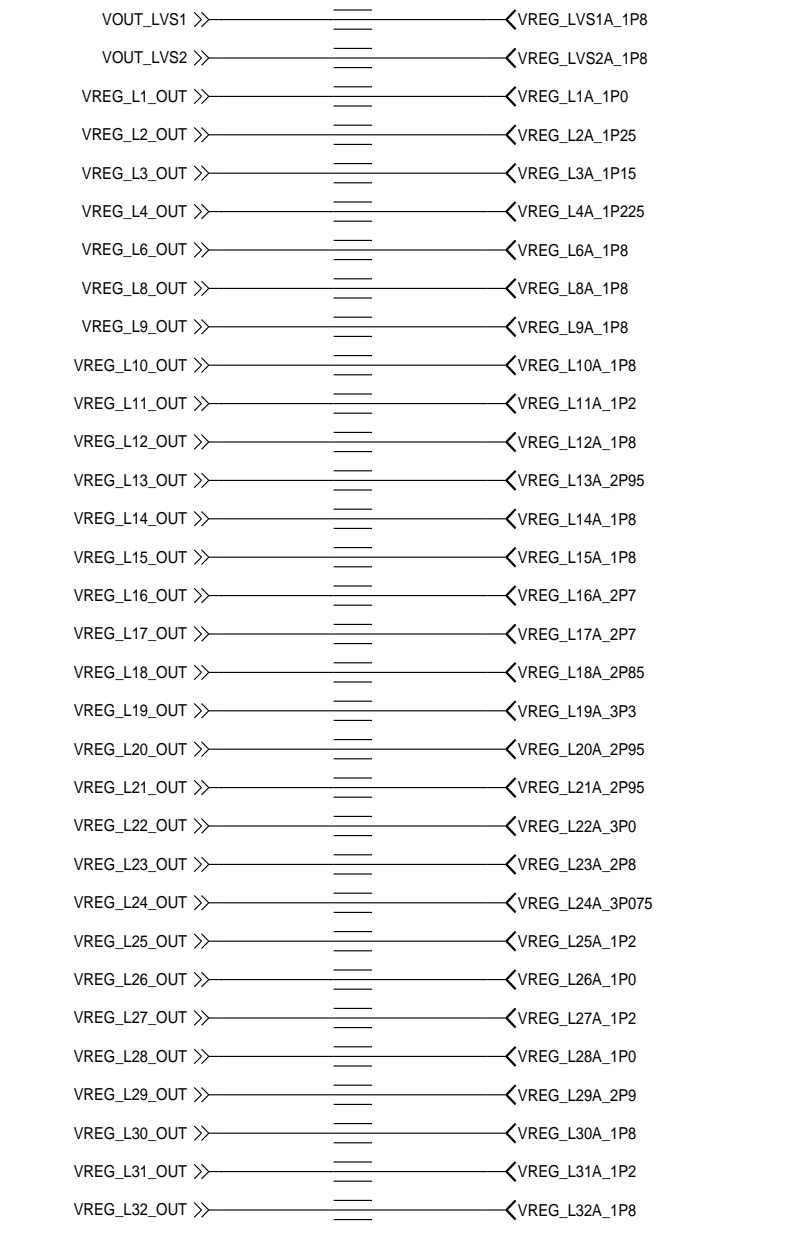
PM8994: POWER

REFDES: 2300-2399

INPUT POWER



OUTPUT POWER



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
Mon Jun 15 13:22:11 2015

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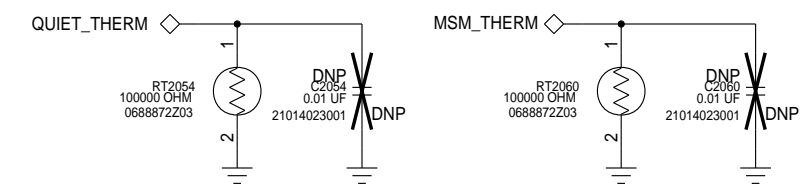
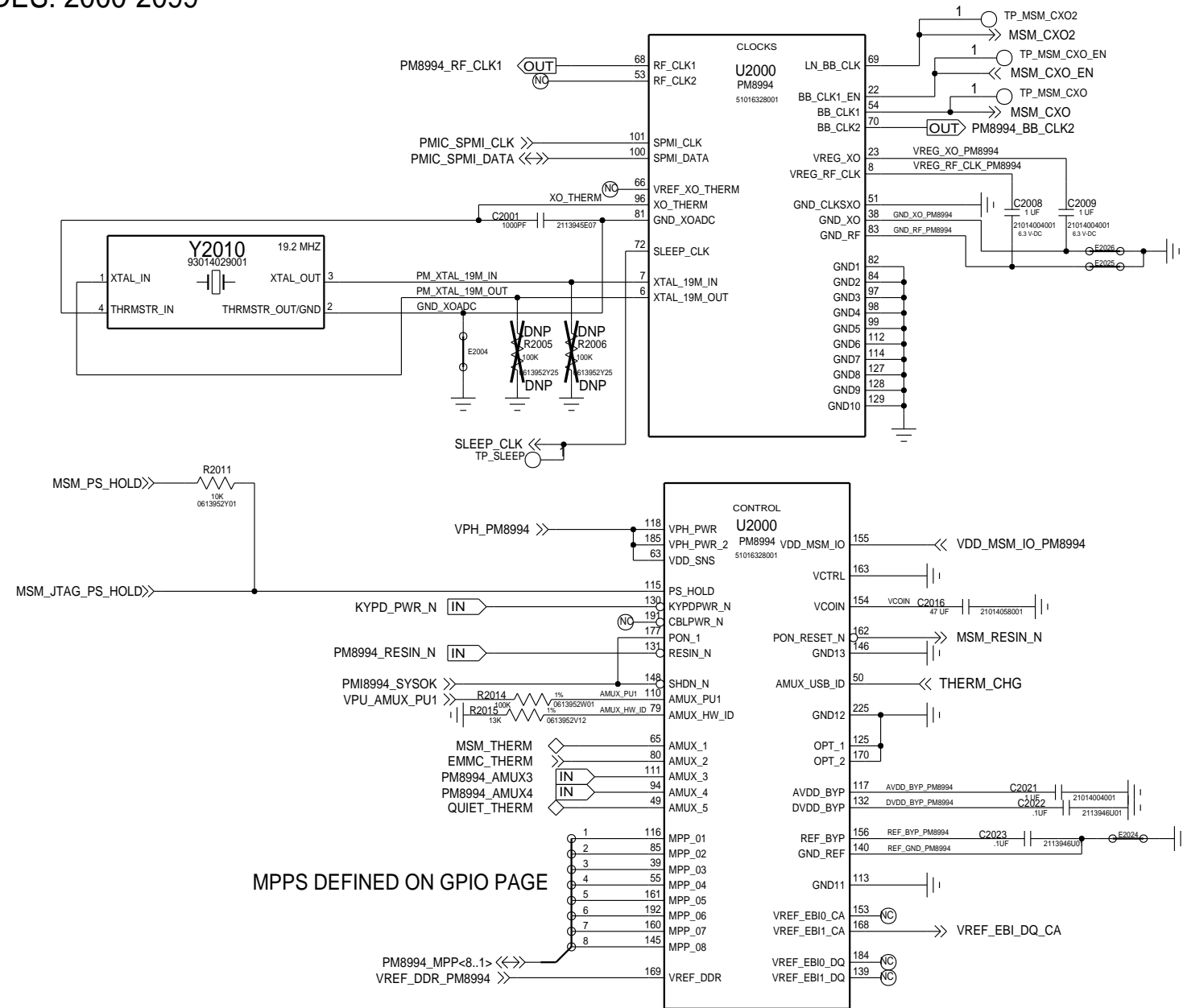
B	PROJECT NAME	REV
	84016440001_c.cpm	01

CAD FILE NAME:

PAGE 52 OF 78

PM8994: CLK/CTRL/GPIO

REFDES: 2000-2099

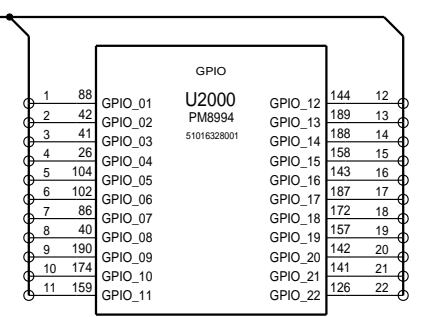


MPPS DEFINED ON GPIO PAGE

FOLLOW CRYSTAL OSCILLATOR PLACEMENT/LAYOUT INSTRUCTIONS IN QCOM DOCUMENT 80-N5423-5 (P. 221 IN REV G)

*19.2MHZ CRYSTAL+THERMISTOR OPTIONS
 PACKAGE PART NUMBER
 2520 93014012001
 2016 93014029001

PM GPIOs DEFINED ON MSM GPIO PAGE



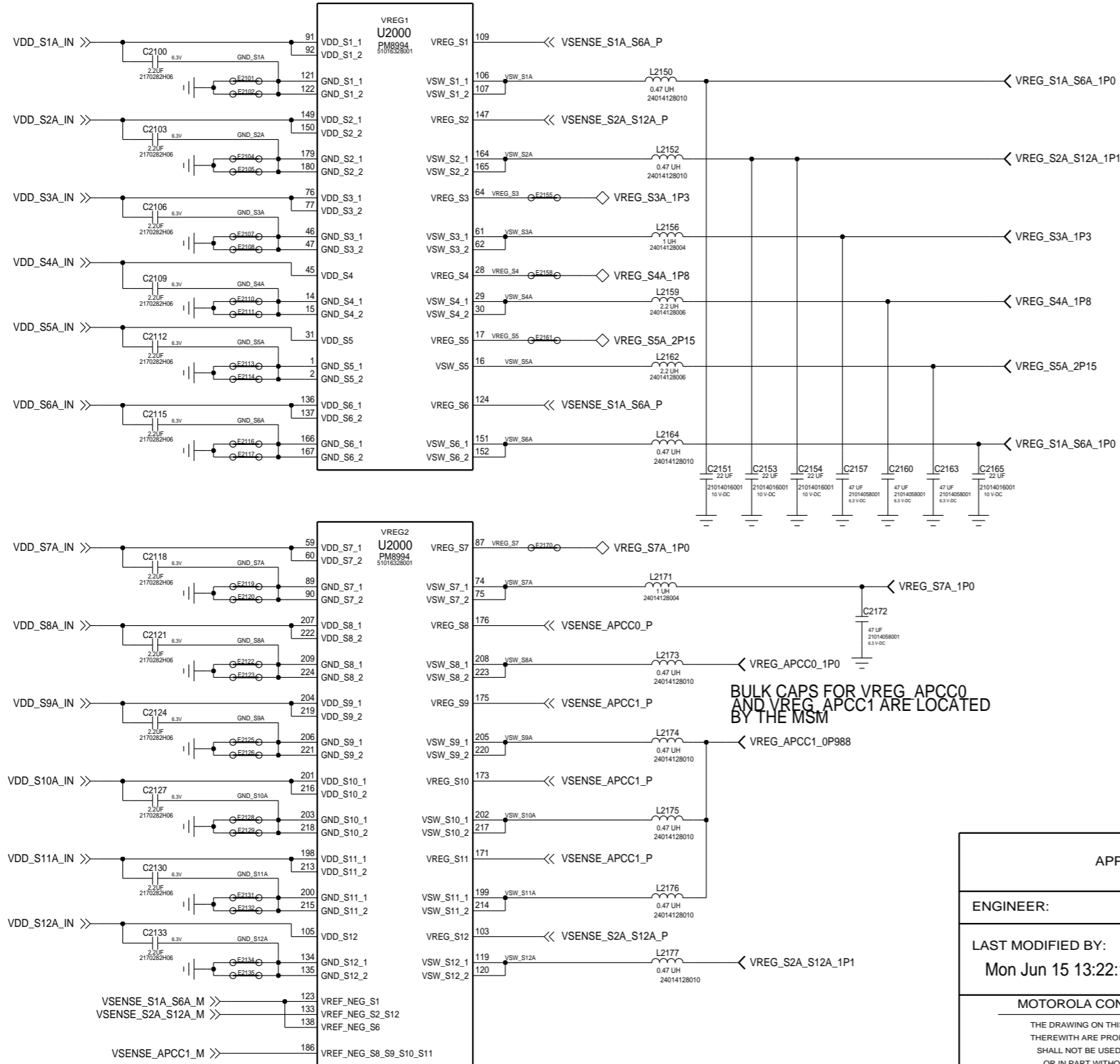
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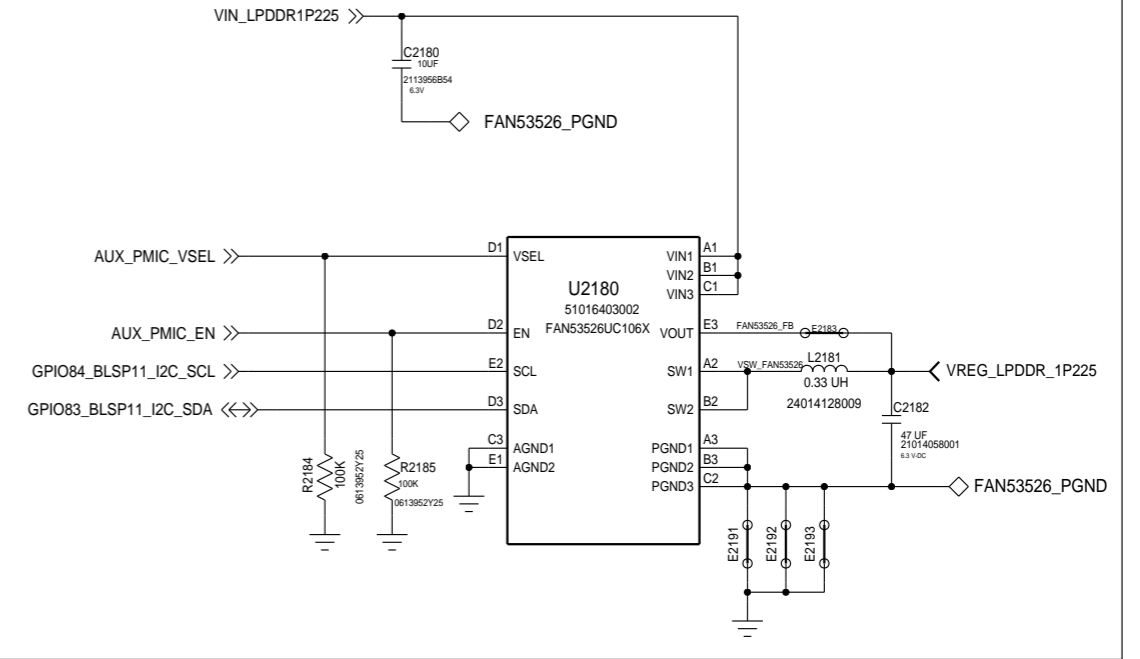
PM8994: SMPS

REFDES: 2100-2199

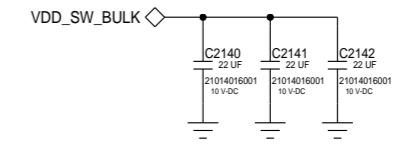


VREG_LPDDR3 EXTERNAL REGULATOR

*** EXT-REGULATOR FOR LPDDR3 I2C ADDR. 0X60



SWITCHER INPUT BULK CAPS

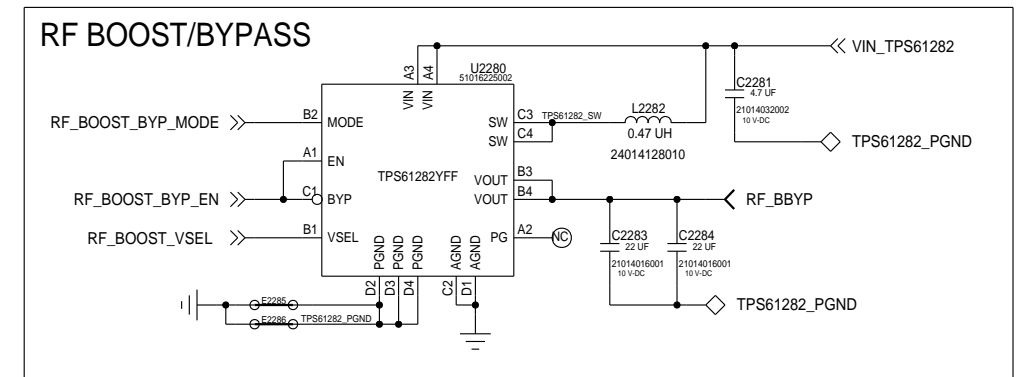
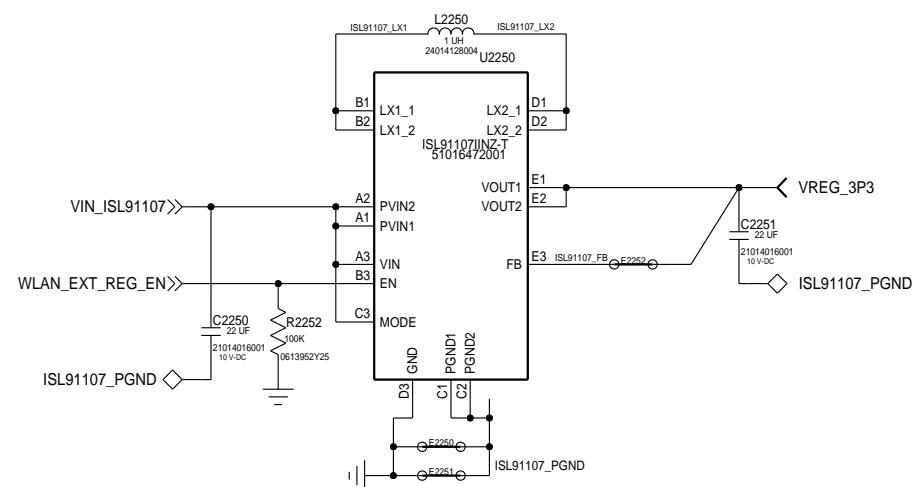
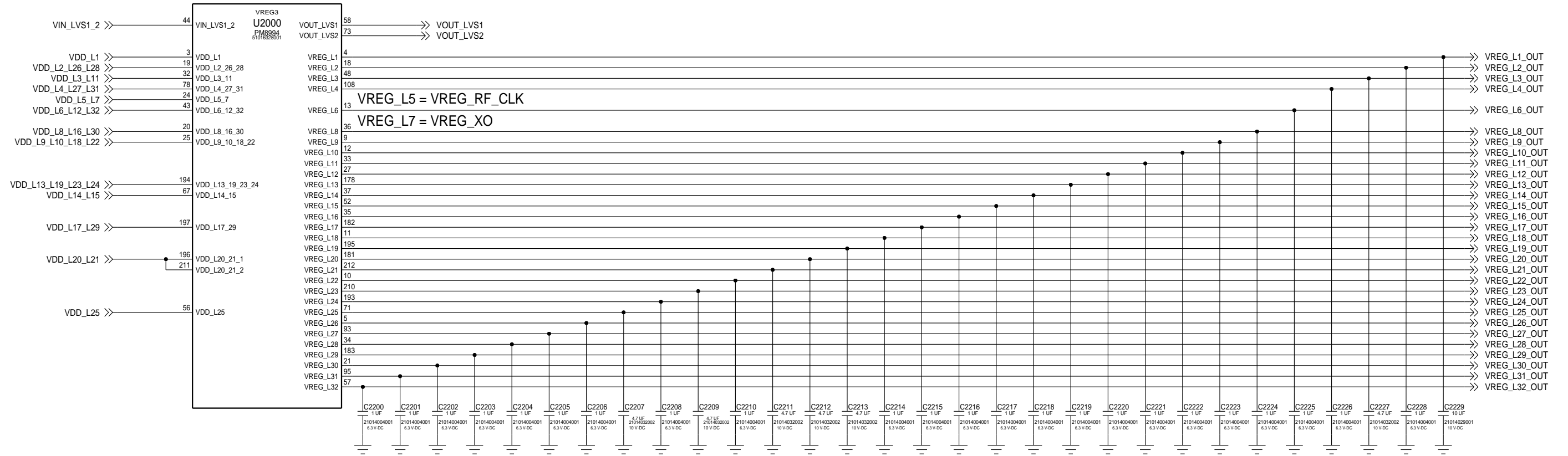


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CAD FILE NAME:		PAGE 54 OF 78	

PM8994: VREGS

REFDES: 2200-2299



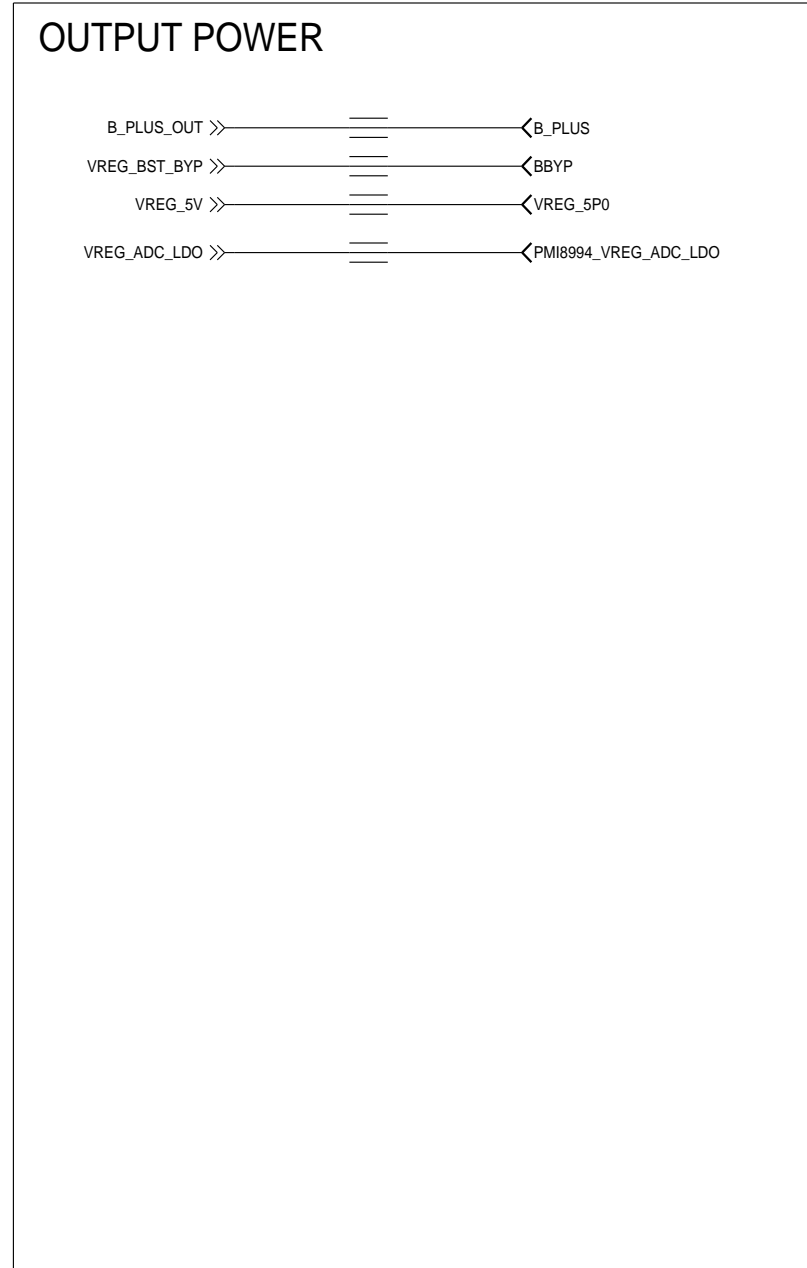
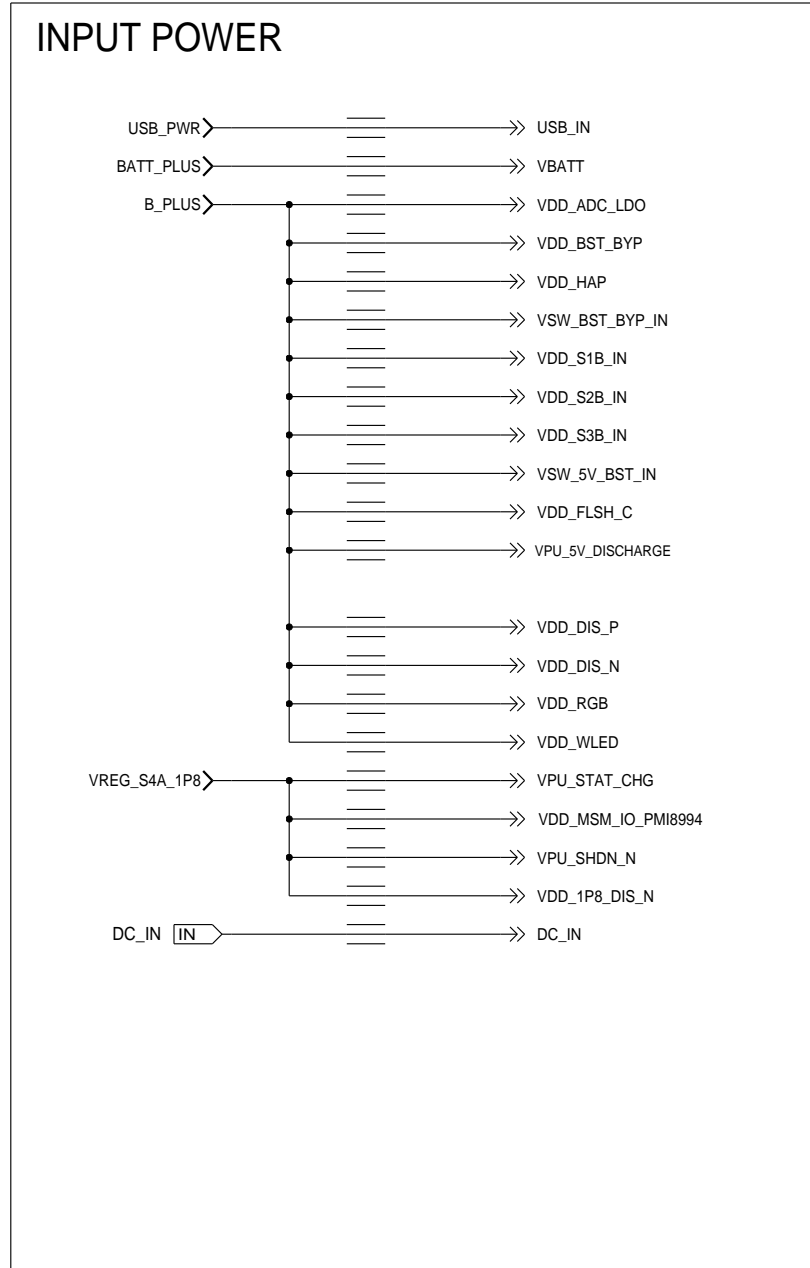
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CAD FILE NAME:		PAGE 55 OF 78	

PMI8994: POWER

REFDES: 2400-2499



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
Mon Jun 15 13:22:14 2015

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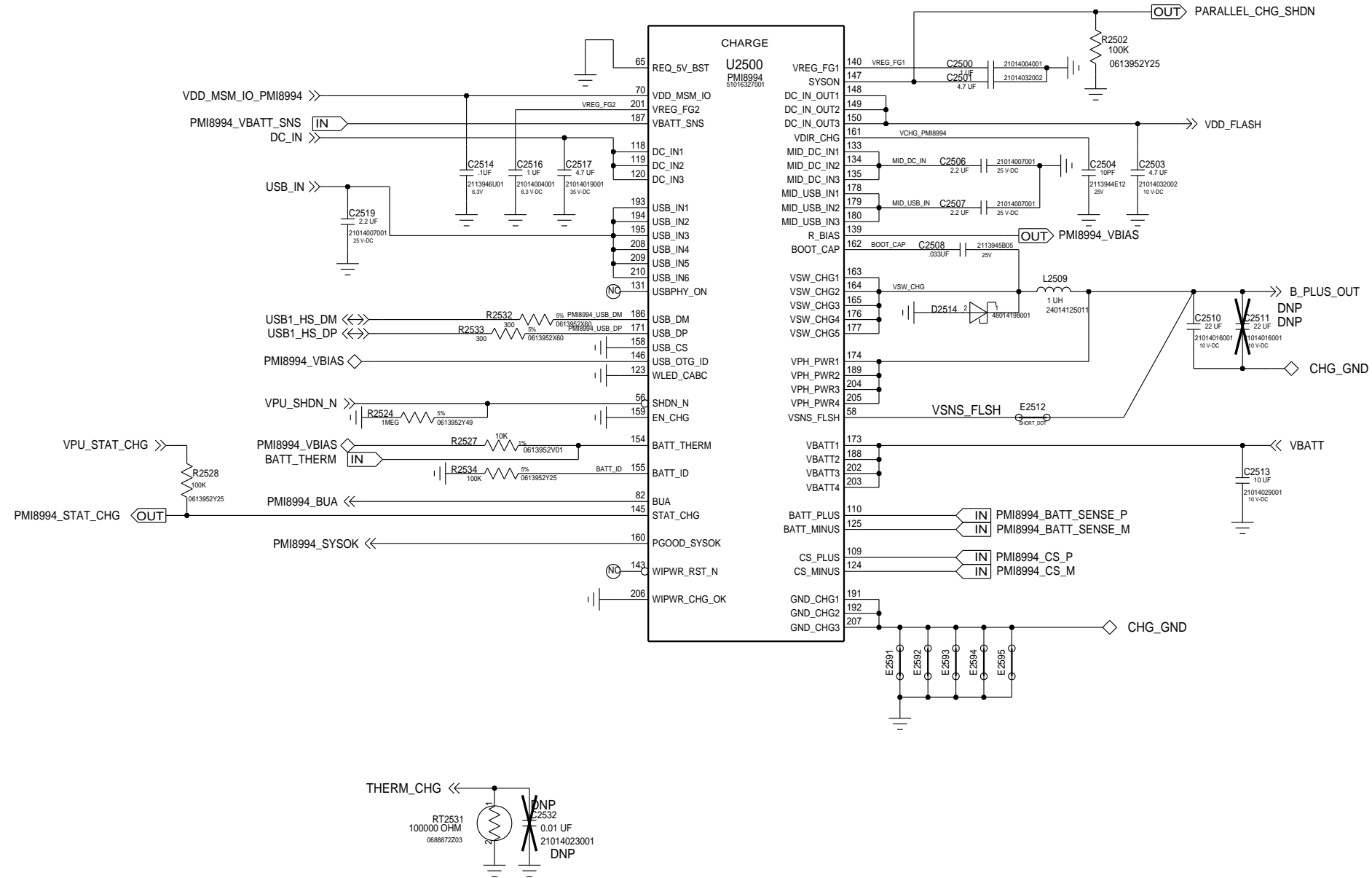
REV
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CAD FILE NAME:

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PMI8994: CHG/USB

REFDES: 2500-2599

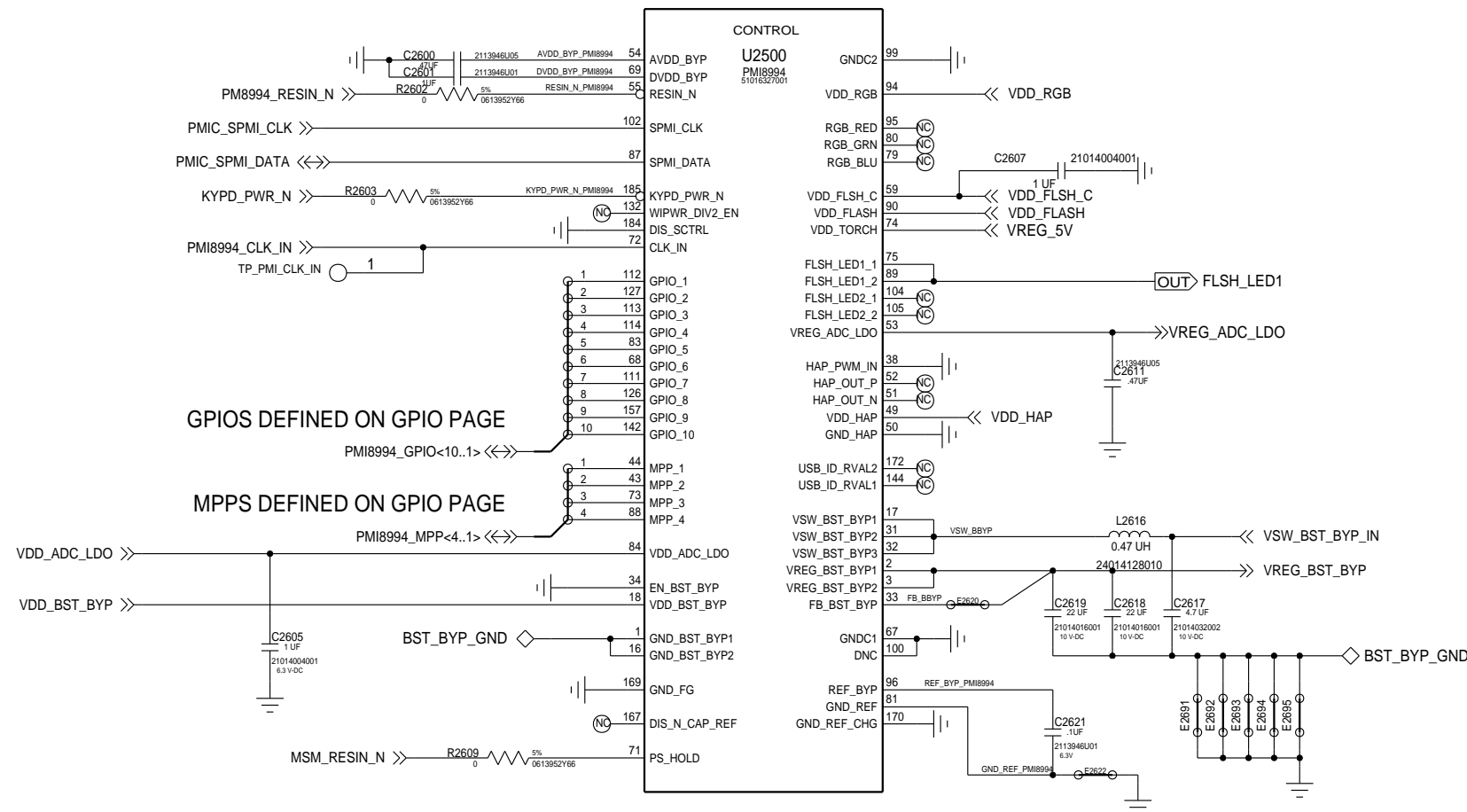


BASED ON 80-NJ051-41 REV. B

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		CAD FILE NAME:	PAGE 57 OF 78

PMI8994: GPIO/LED/RGB

REFDES: 2600-2699

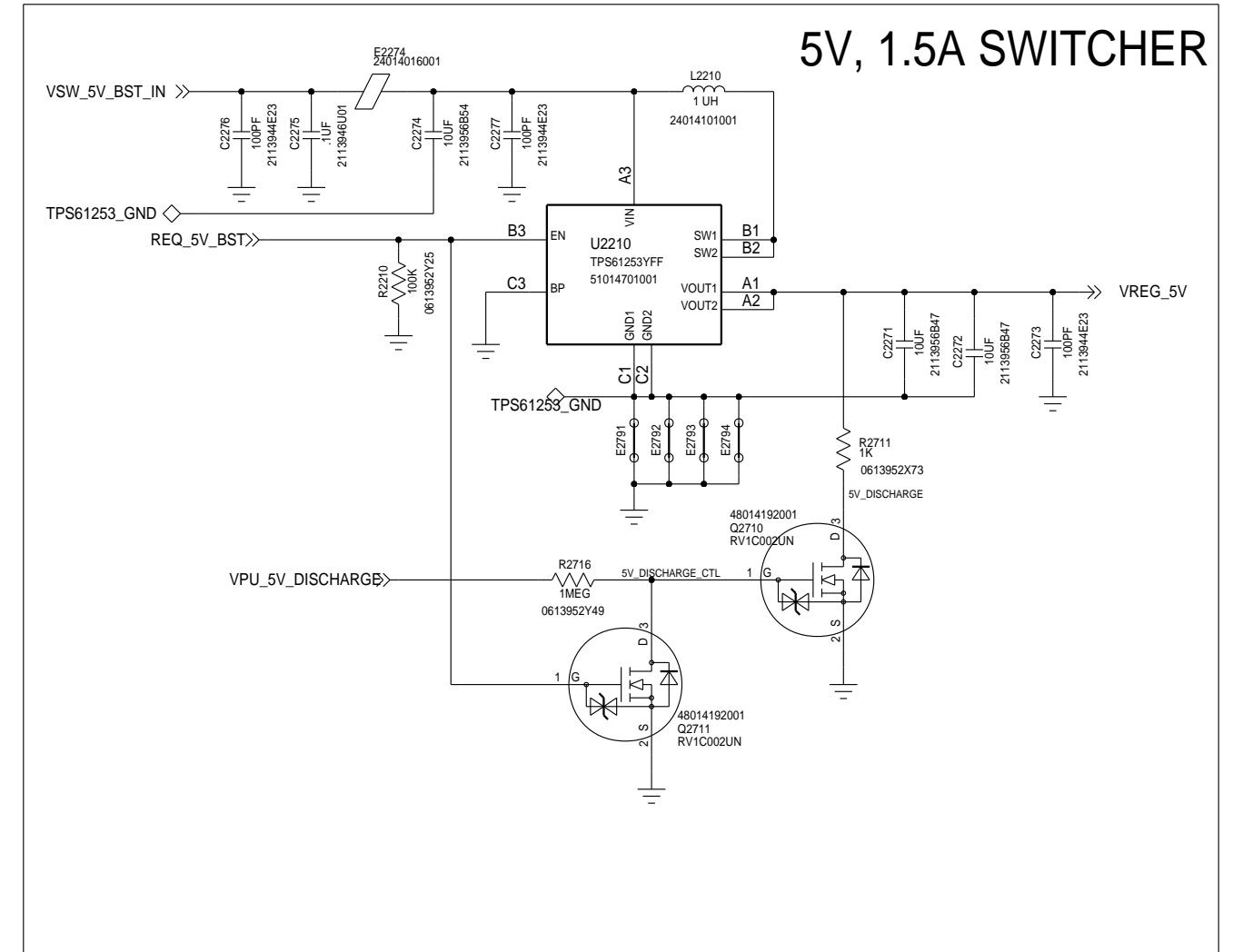
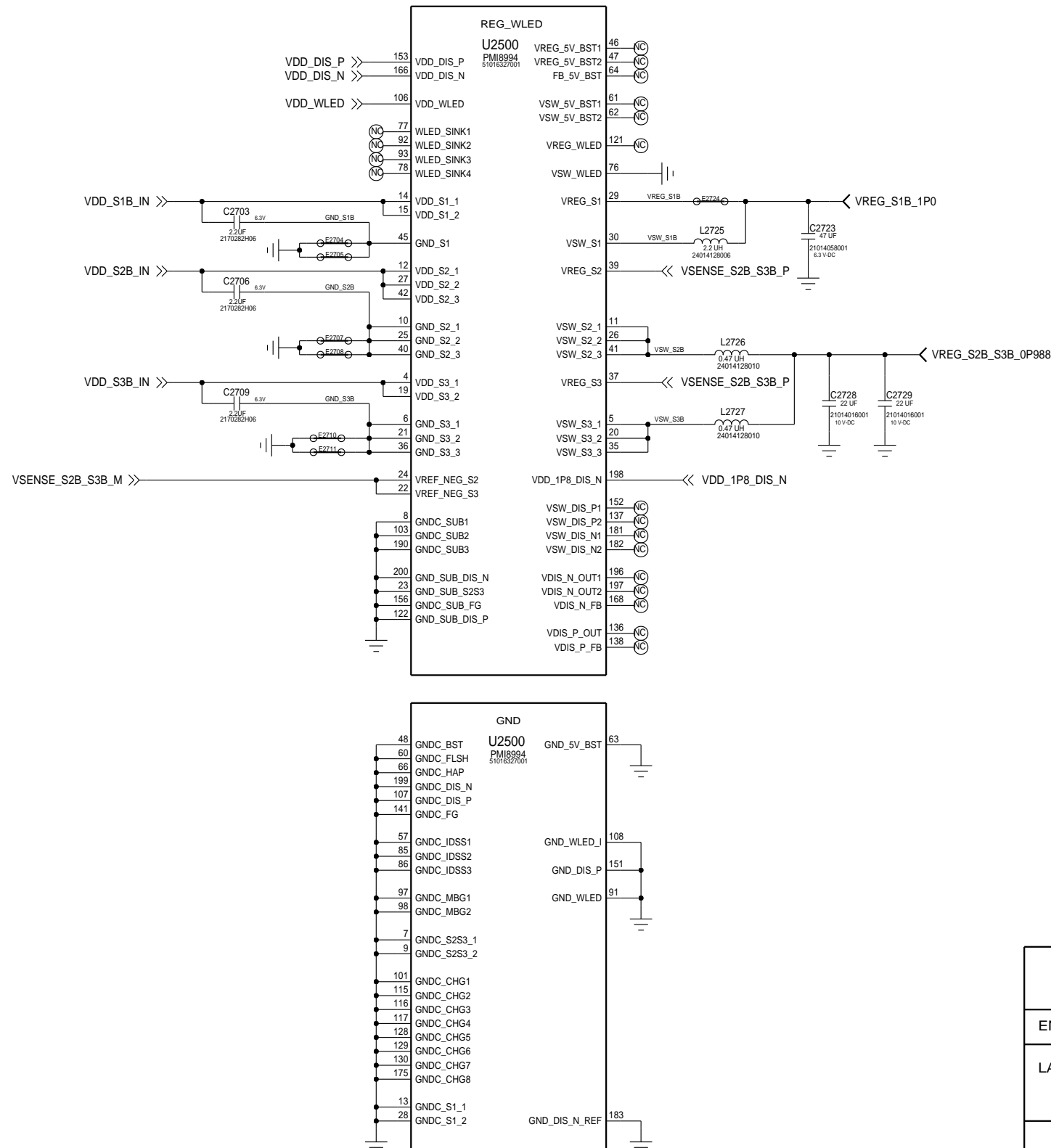


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		CAD FILE NAME:	PAGE 58 OF 78

PMI8994: REF/WLED/GND

REFDES: 2700-2799

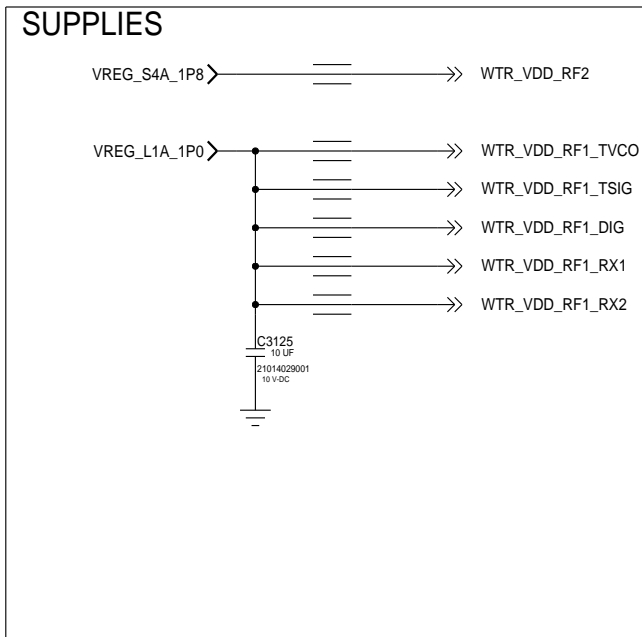


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		CAD FILE NAME:	PAGE 59 OF 78

WTR3925: POWER

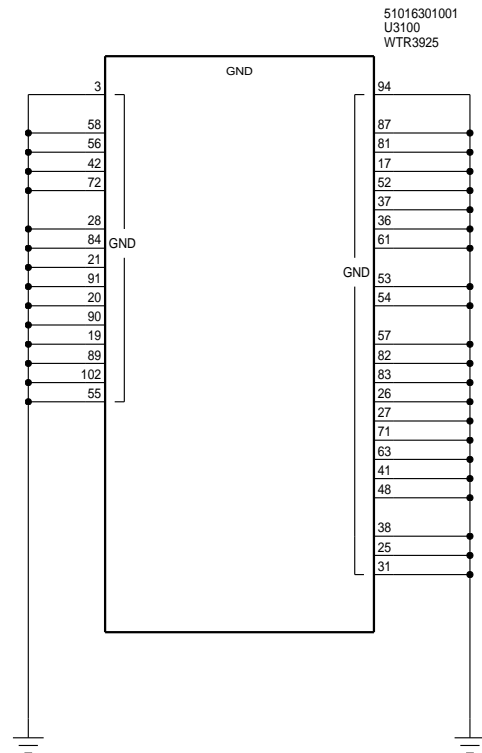
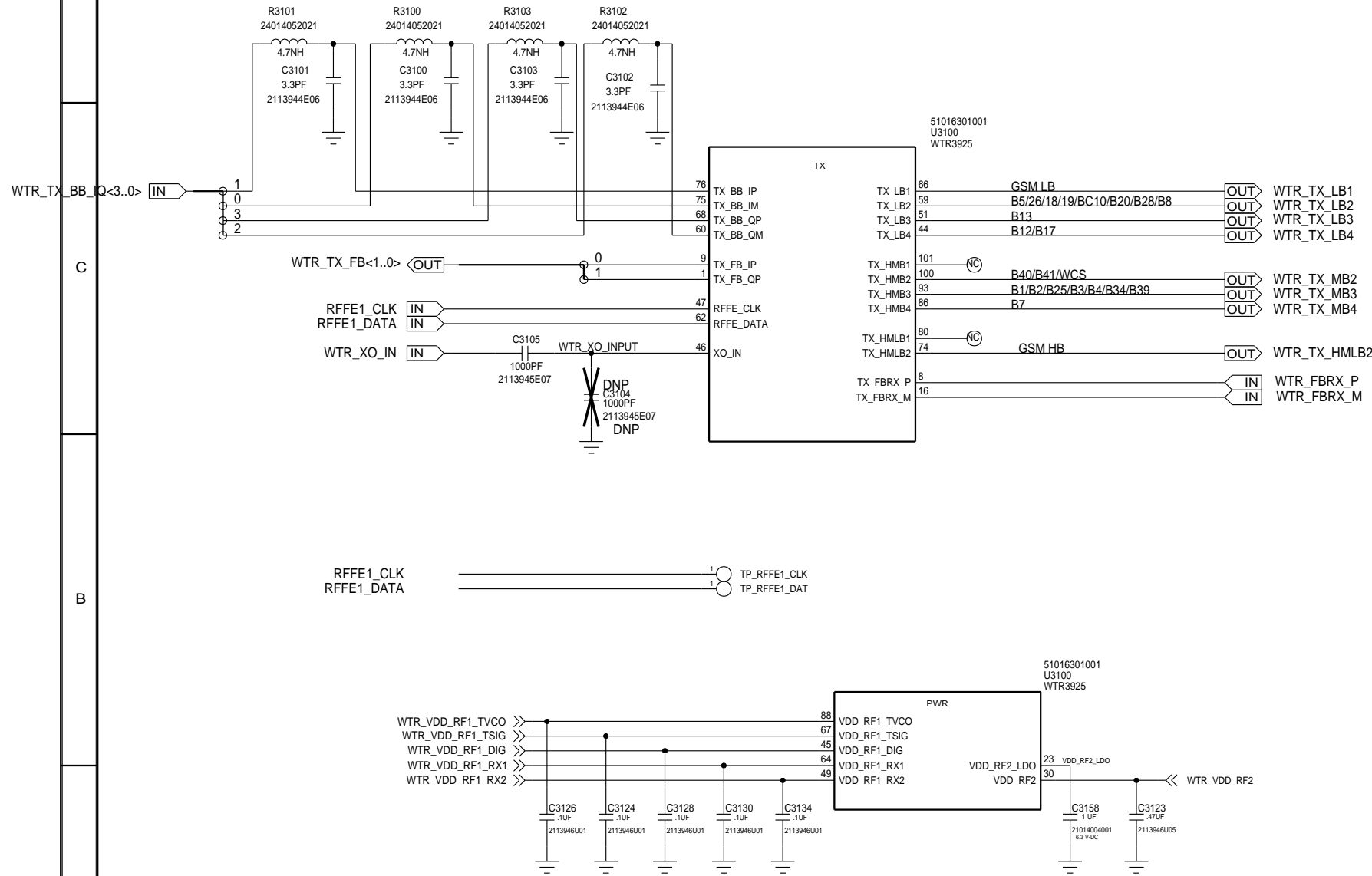
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		PAGE 60 OF 78	

WTR3925: TX/PWR/GROUND

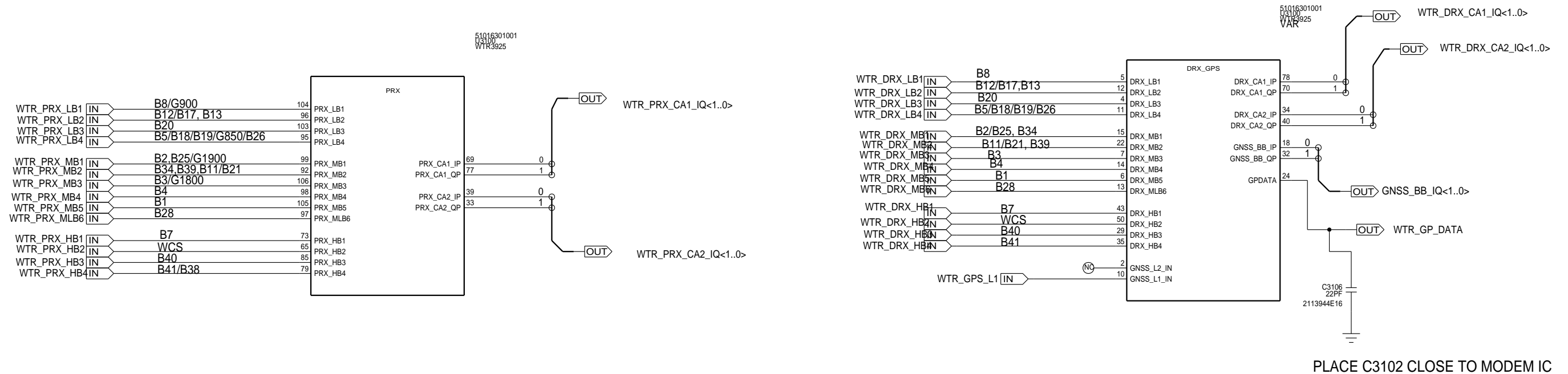
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CAD FILE NAME:		PAGE 61 OF 78	

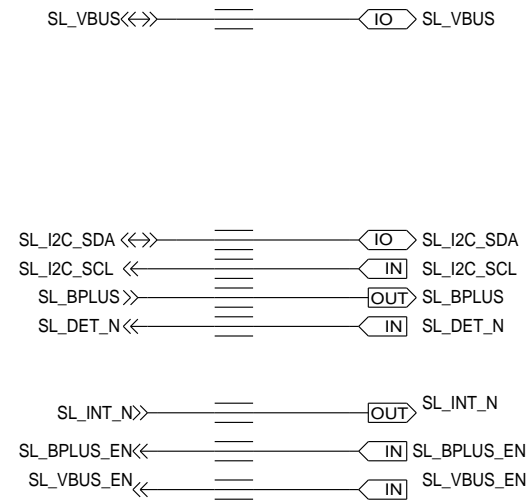
WTR3925: PRX/DRX/GPS

REF 3110-3119



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Mon Jun 15 13:22:03 2015		block_wtr3925	
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		CAD FILE NAME:	
		PAGE 62 OF 78	

SLICE: I/F SLICE DELETED



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Wed Mar 11 13:17:37 2015		slice_if	
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8

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1

RFFE: BLOCK DIAGRAM

REFDES: 7000-8999

D

D

C


C

B

B

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A

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE: rffe_3ca_dsda_combo	
LAST MODIFIED BY: MMI Tue Sep 30 10:58:34 2014			
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		CAD FILE NAME:	PAGE 64 OF 78

8

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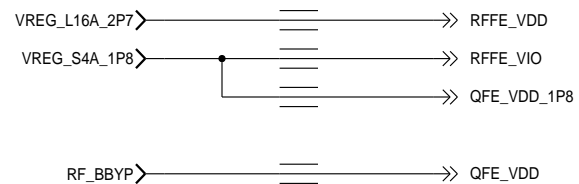
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1

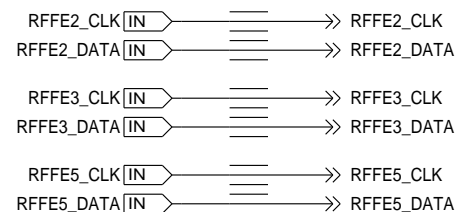
RFFE: PORTS

REFDES: 7000-8999

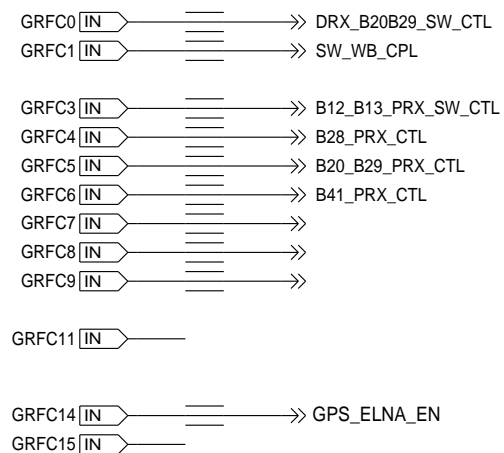
POWER



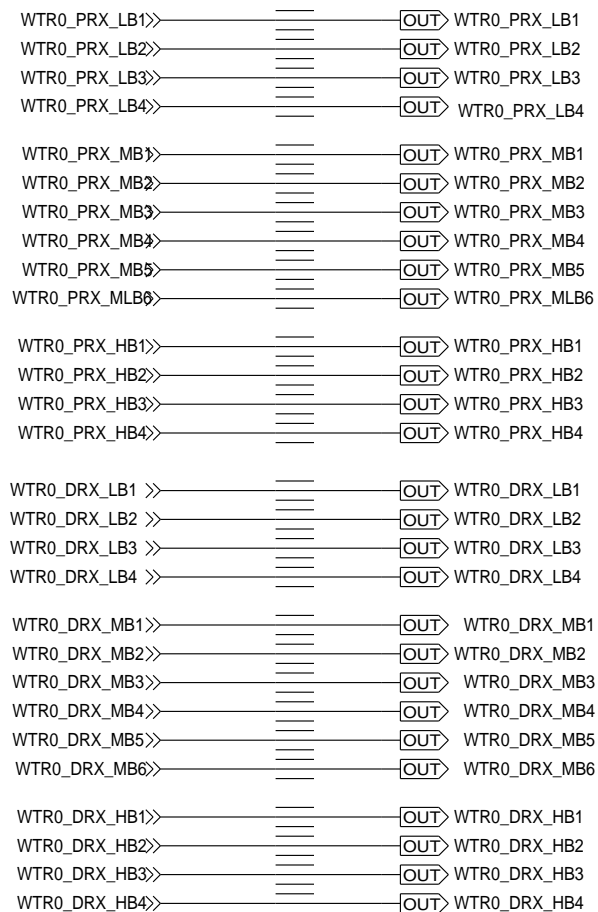
INTERFACES - RFFE MIPI



INTERFACES - RFFE GPIO/GRFC



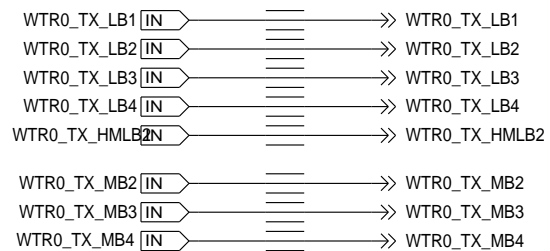
OUTPUTS - RF RECEIVER - WTR0



OUTPUTS - RF RECEIVER - 3DL

OUTPUTS - RF RECEIVER - DSDA

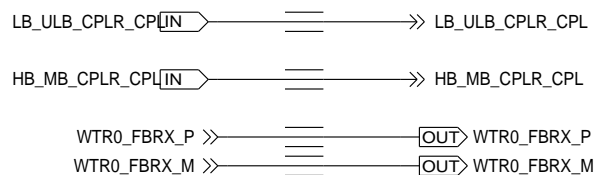
INPUTS - RF DRIVER - WTR0



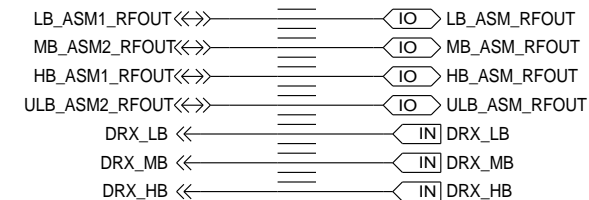
INPUTS - RF DRIVER - 3DL

INPUTS - RF DRIVER - DSDA

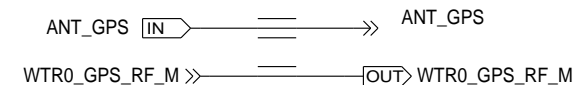
INPUTS /OUTPUTS - DETECTORS



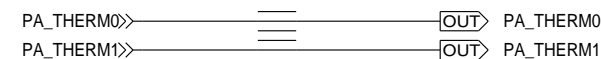
OUTPUTS - RF ANTENNA CONNECTORS



GPS



THERMISTORS



APPROVALS

ENGINEER: MMI
 LAST MODIFIED BY: MMI
 Mon Jun 15 13:21:51 2015

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BLOCK TITLE:
rffe_3ca_dsda_combo

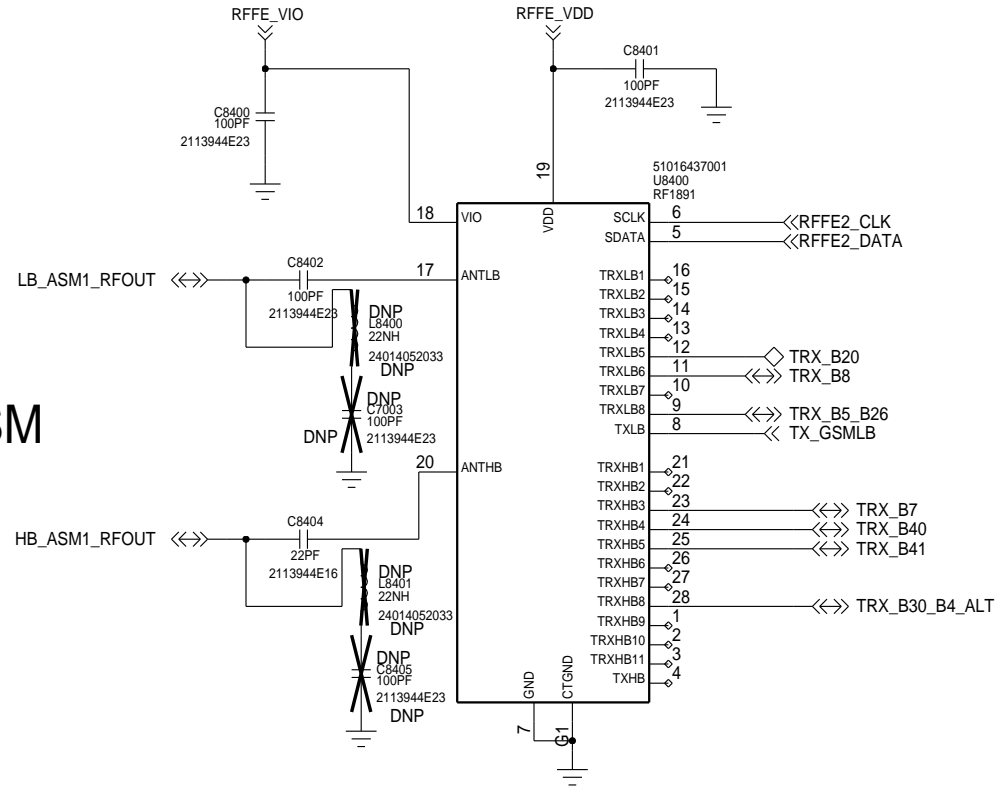
PROJECT NAME: 84016440001_c.cpm REV: 01

CAD FILE NAME: PAGE 65 OF 78

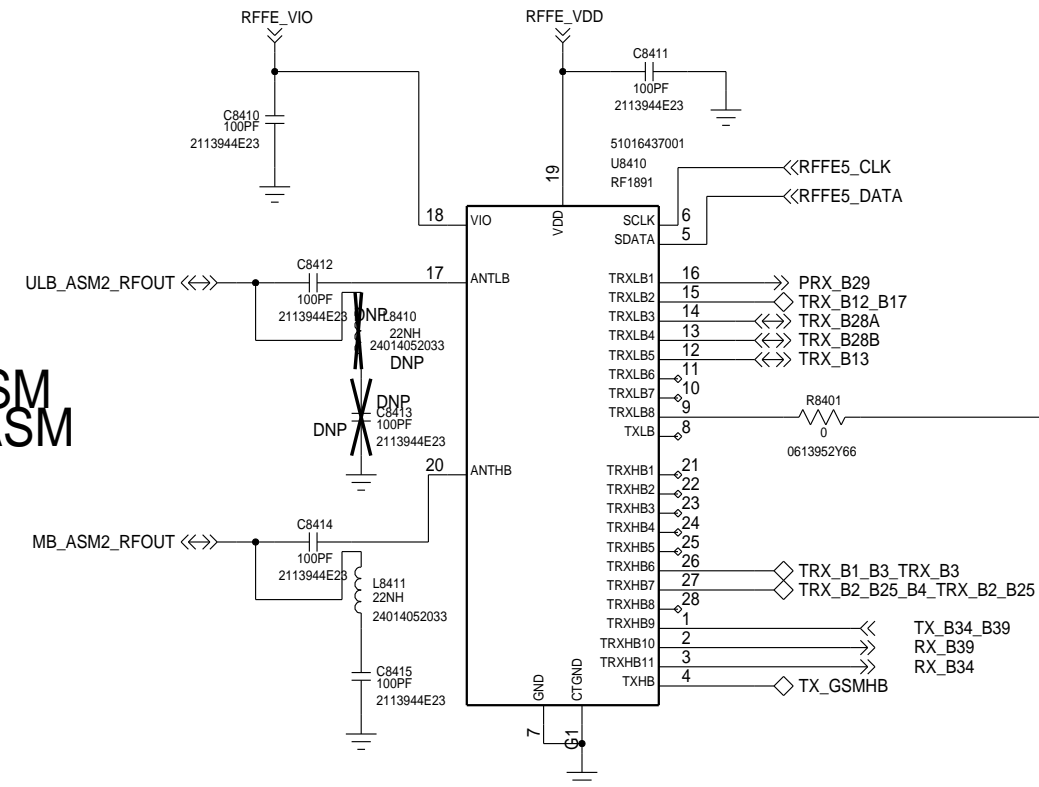
RFFE: ASM

REF 8400-8499

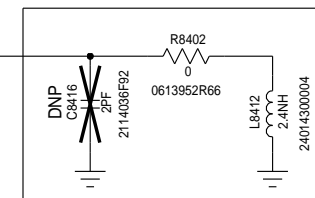
ASM1
 CA: LB+HB ASM
 DSDA: DATA ASM



ASM2
 CA: ULB+MB ASM
 DSDA: VOICE ASM



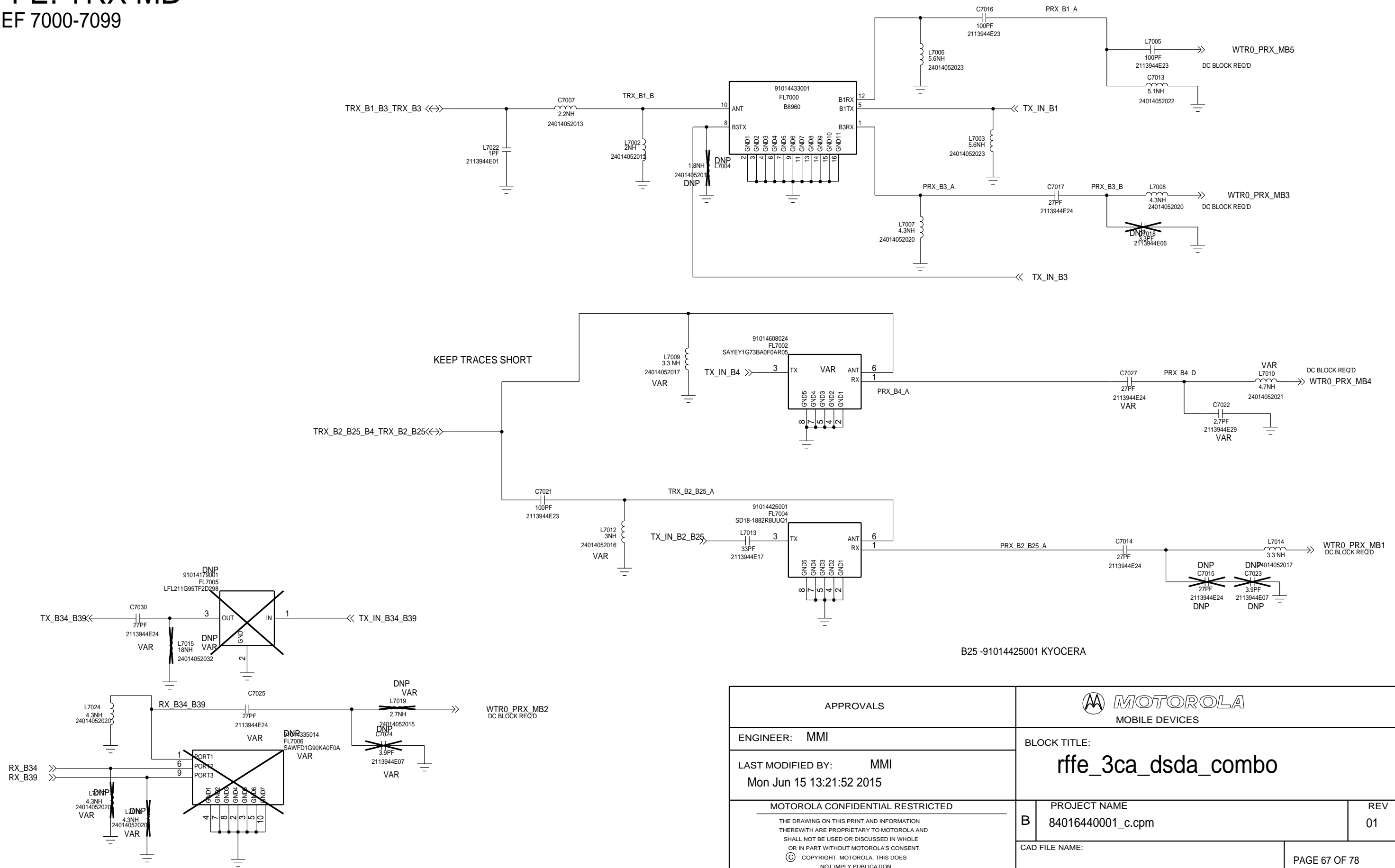
PLACE PI OUTSIDE OF SHIELD CAN



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Mon Jun 15 13:21:52 2015		rffe_3ca_dsda_combo	
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		CAD FILE NAME:	
		PAGE 66 OF 78	

RFFE: TRX MB

REF 7000-7099



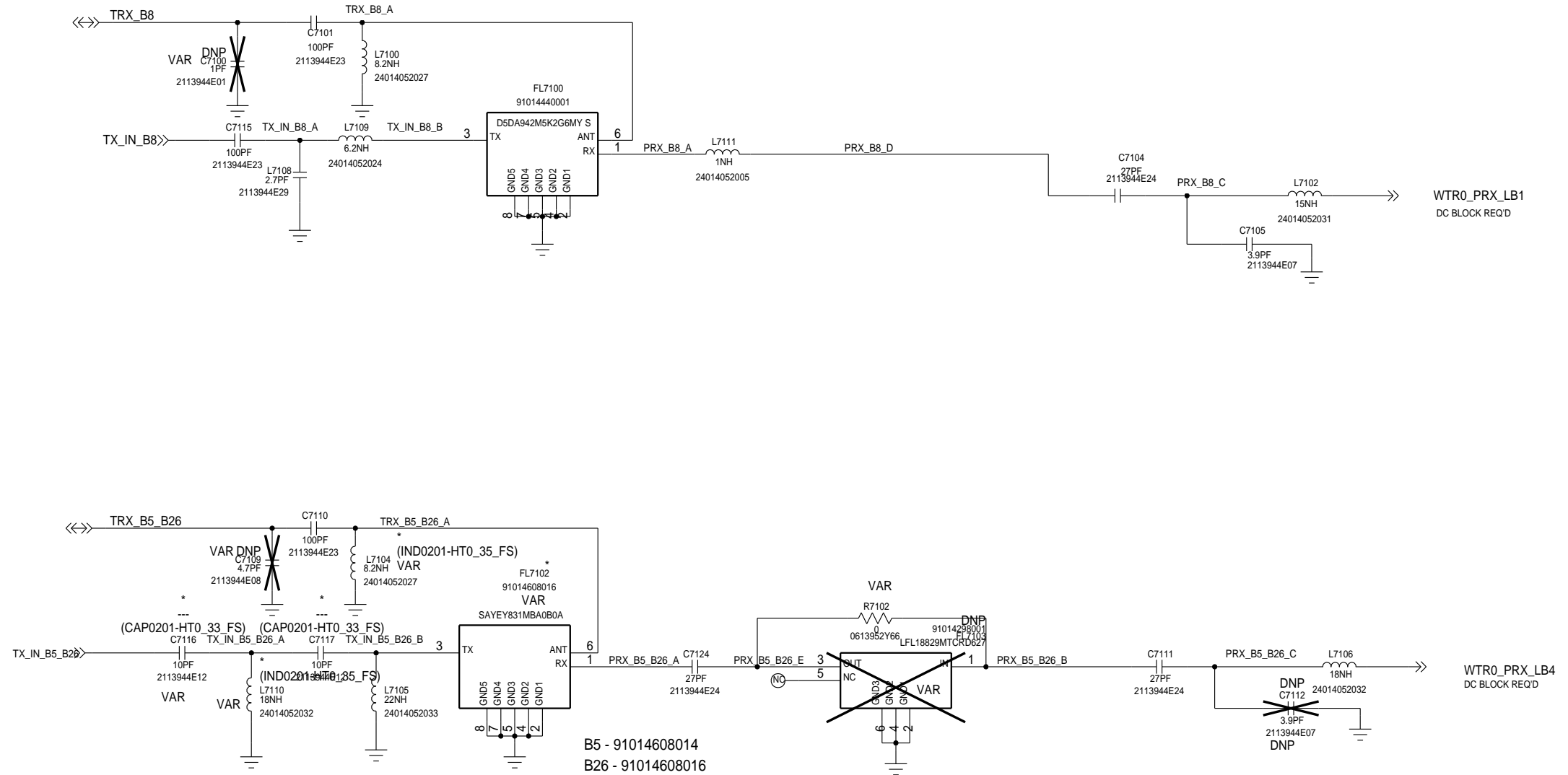
KEEP TRACES SHORT

B25-91014425001 KYOCERA

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI		rffe_3ca_dsda_combo	
Mon Jun 15 13:21:52 2015		PROJECT NAME	REV
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RFFE: TRX LB

REF 7100-7199



APPROVALS		MOTOROLA MOBILE DEVICES	
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		CAD FILE NAME:	
		PAGE 68 OF 78	

RFFE: TRX ULB

REF 7200-7299

D

C

B

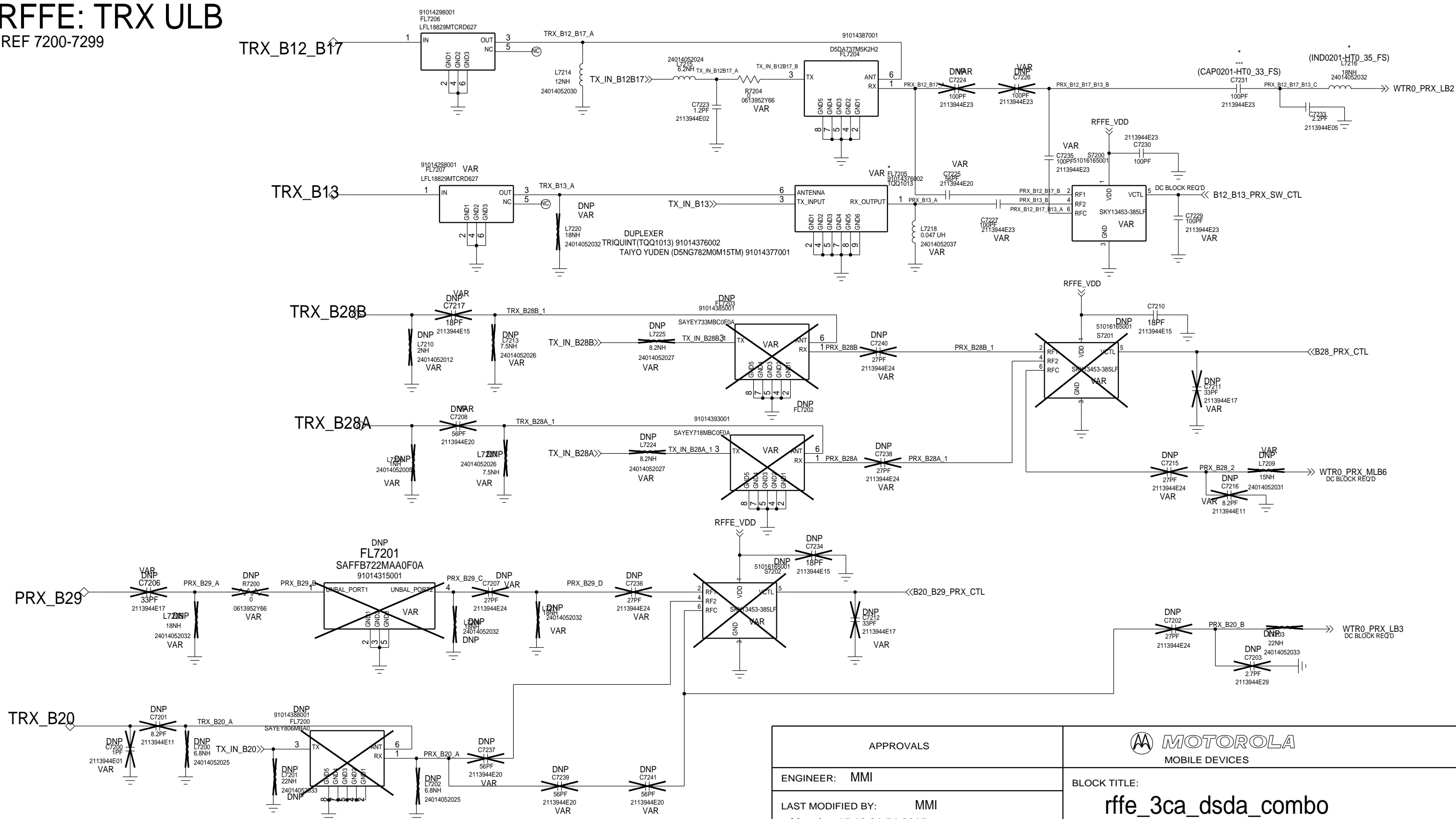
A

D

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B

A

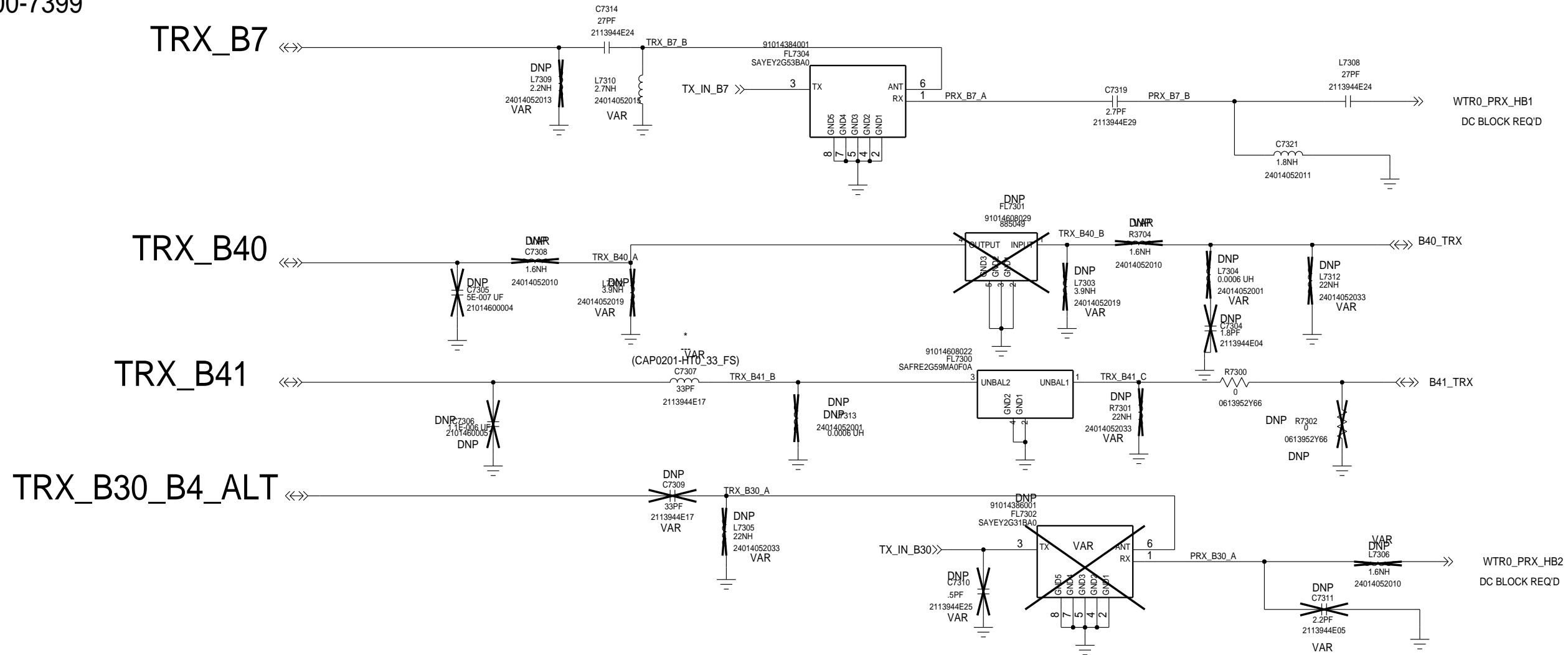


APPROVALS	
ENGINEER:	MMI
LAST MODIFIED BY:	MMI
Mon Jun 15 13:21:54 2015	
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PROJECT NAME 89746410001_c.cpm	REV 01
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RFFE: TRX HB

REF 7300-7399

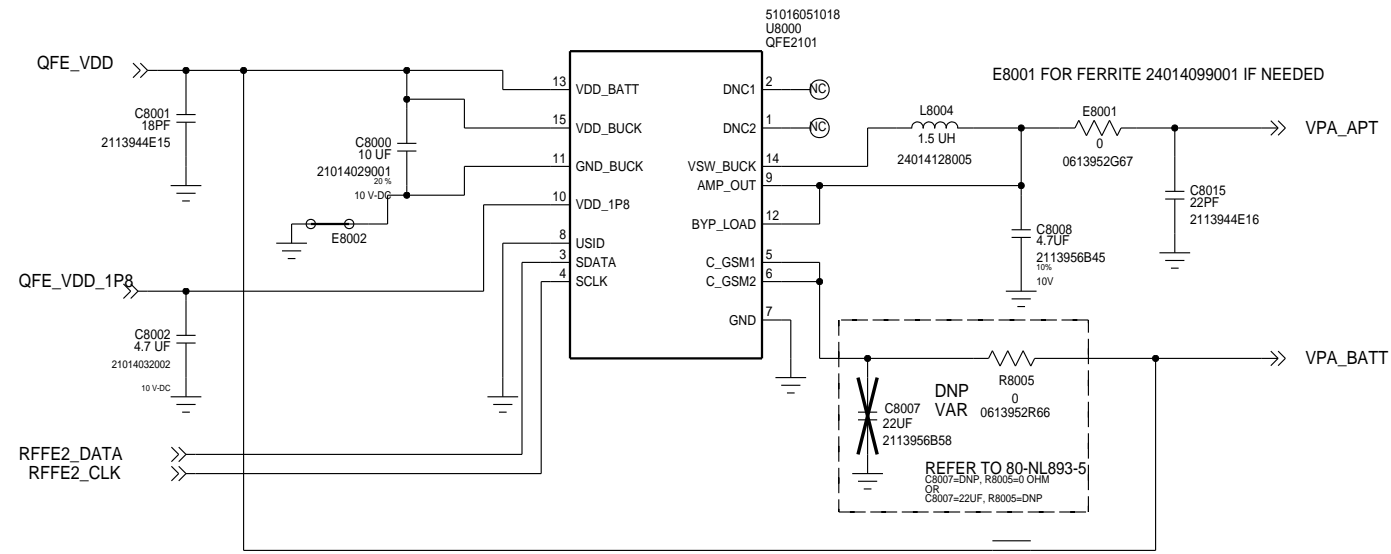



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
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		B 84016440001_c.cpm	01
CAD FILE NAME:		PAGE 70 OF 78	

RFFE: APT

REF 8000-8099

MAIN APT



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Mon Jun 15 13:21:55 2015		bfeck3affedsda_combo	
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		CAD FILE NAME:	
		PAGE 71 OF 78	

RFFE: TX MMB PA

REF 7400-7499

WTR0_TX_MB3

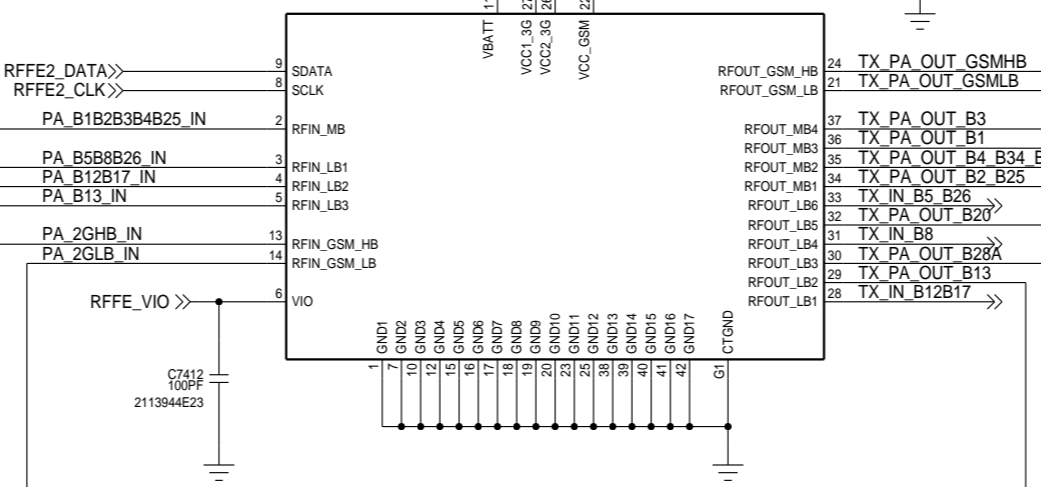
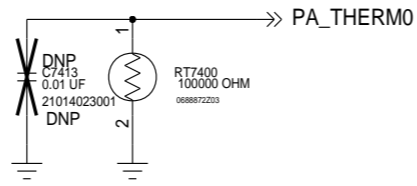
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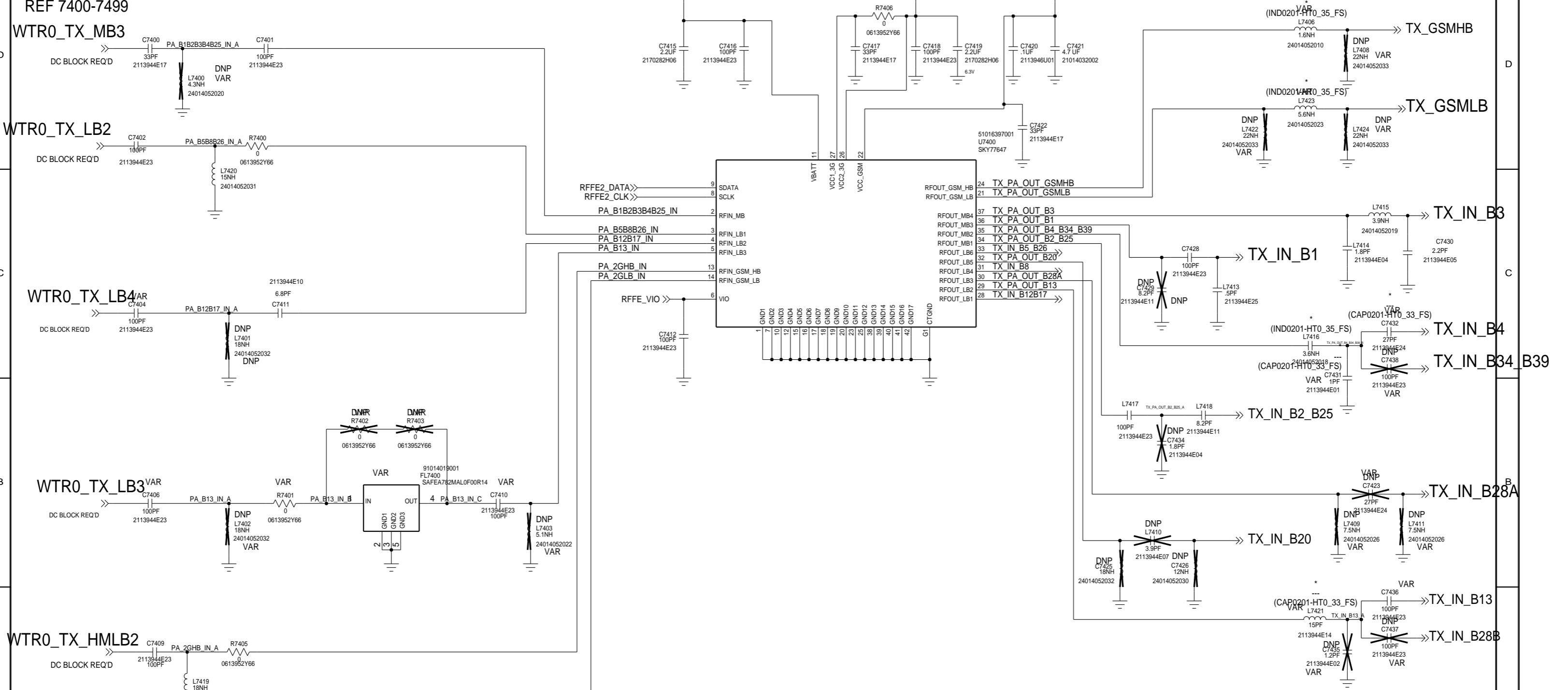
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WTR0_TX_LB1

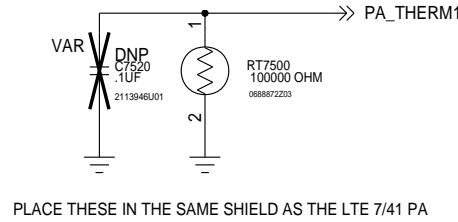
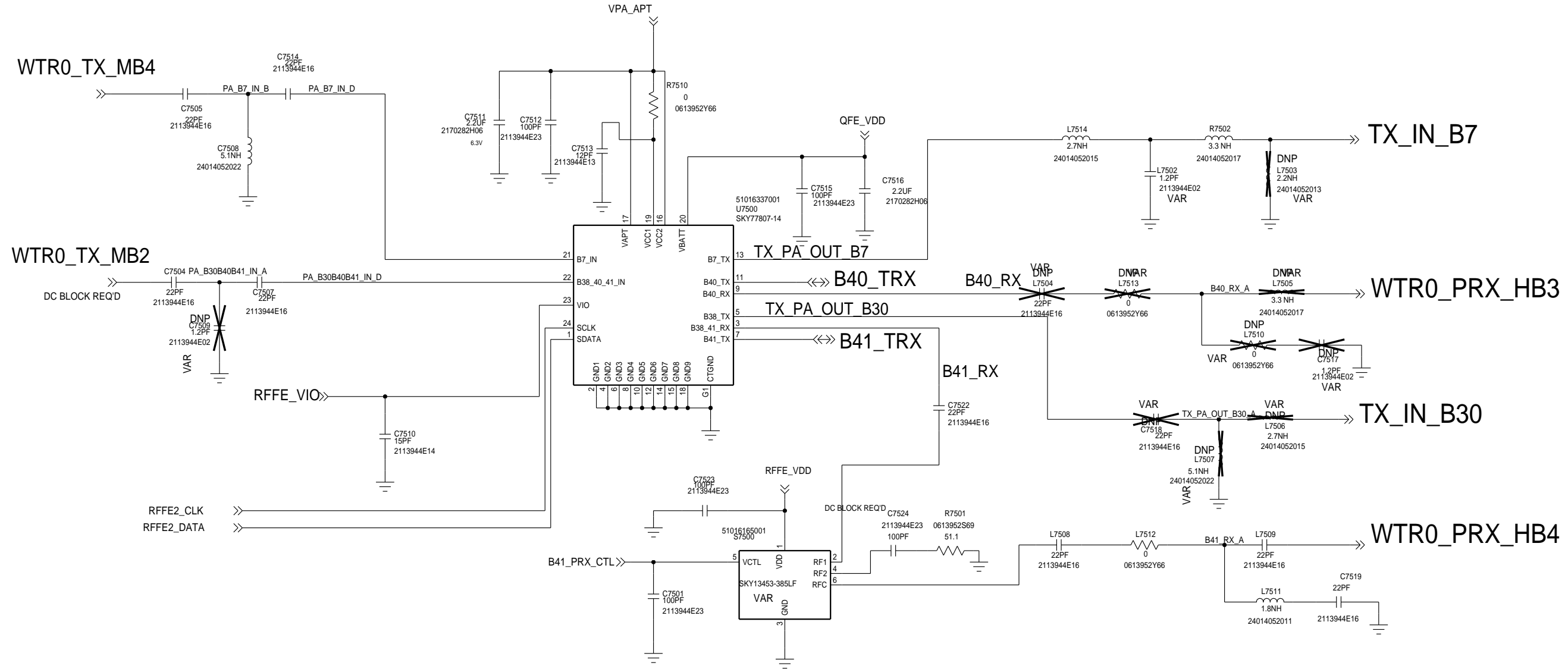


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI		rfe_3ca_dsda_combo	
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RFFE: TX B7/B38/B41

REF 7500-7599

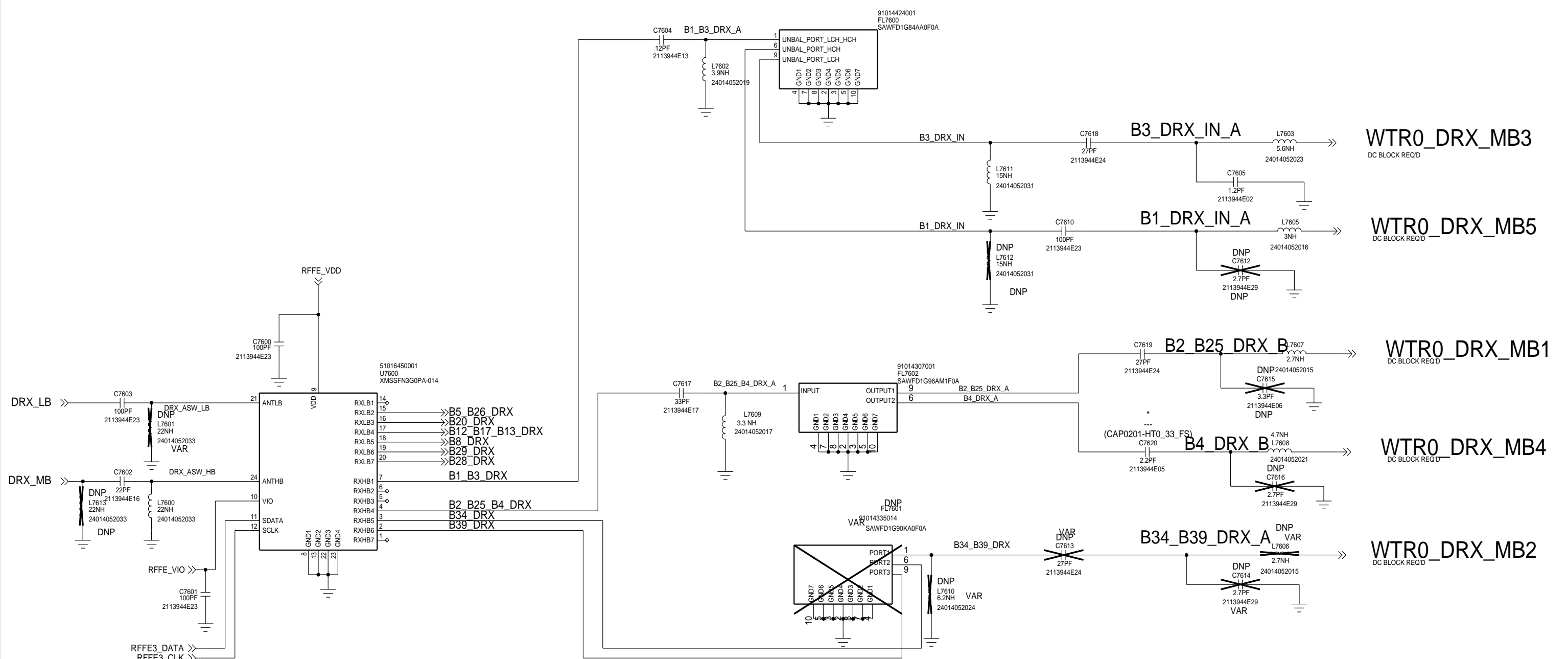


MUTE SWITCH FOR B7 HIGH CHANNEL DESENSE

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY:		rffe_3ca_dsda_combo	
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		CAD FILE NAME:	
		PAGE 73 OF 78	
		REV 01	

RFFE: DRX ANTENNA SWITCH

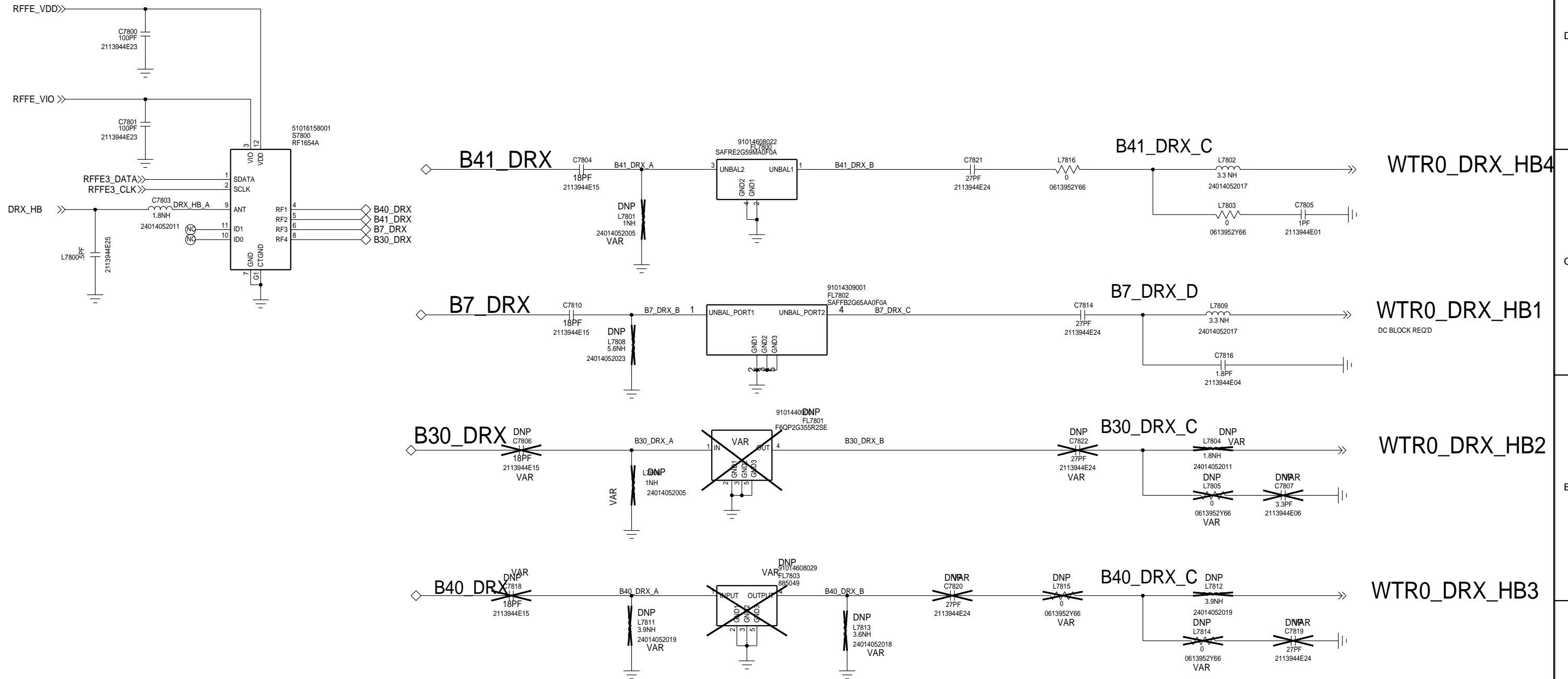
REF 7600-7699



APPROVALS		MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MMI Mon Jun 15 13:21:57 2015		rffe_3ca_dsda_combo	
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		B 8074640001_c.cpm	01
CAD FILE NAME:		PAGE 74 OF 78	

RFFE: DRX HB

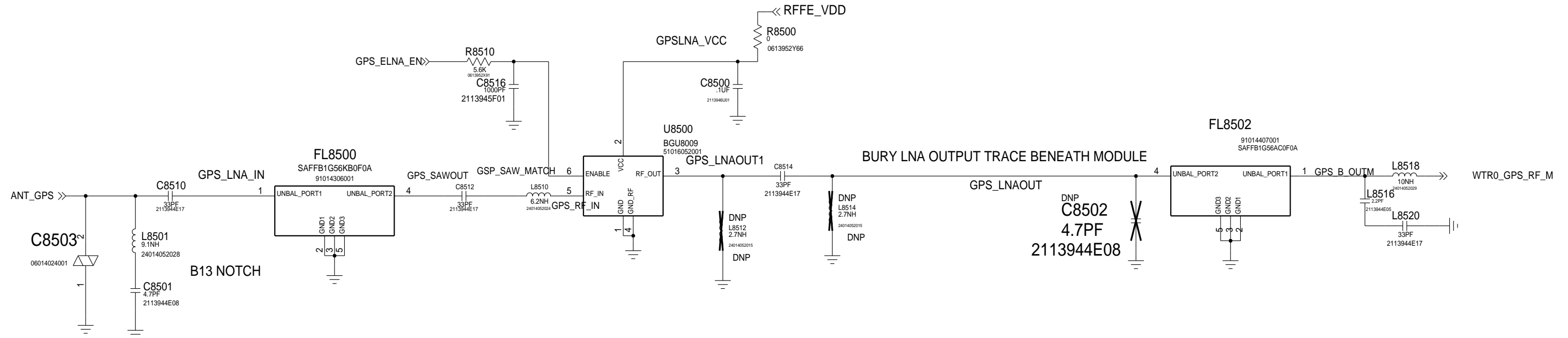
REF 7800-7899



APPROVALS		MOTOROLA MOBILE DEVICES	
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		CAD FILE NAME:	
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RFFE: GPS

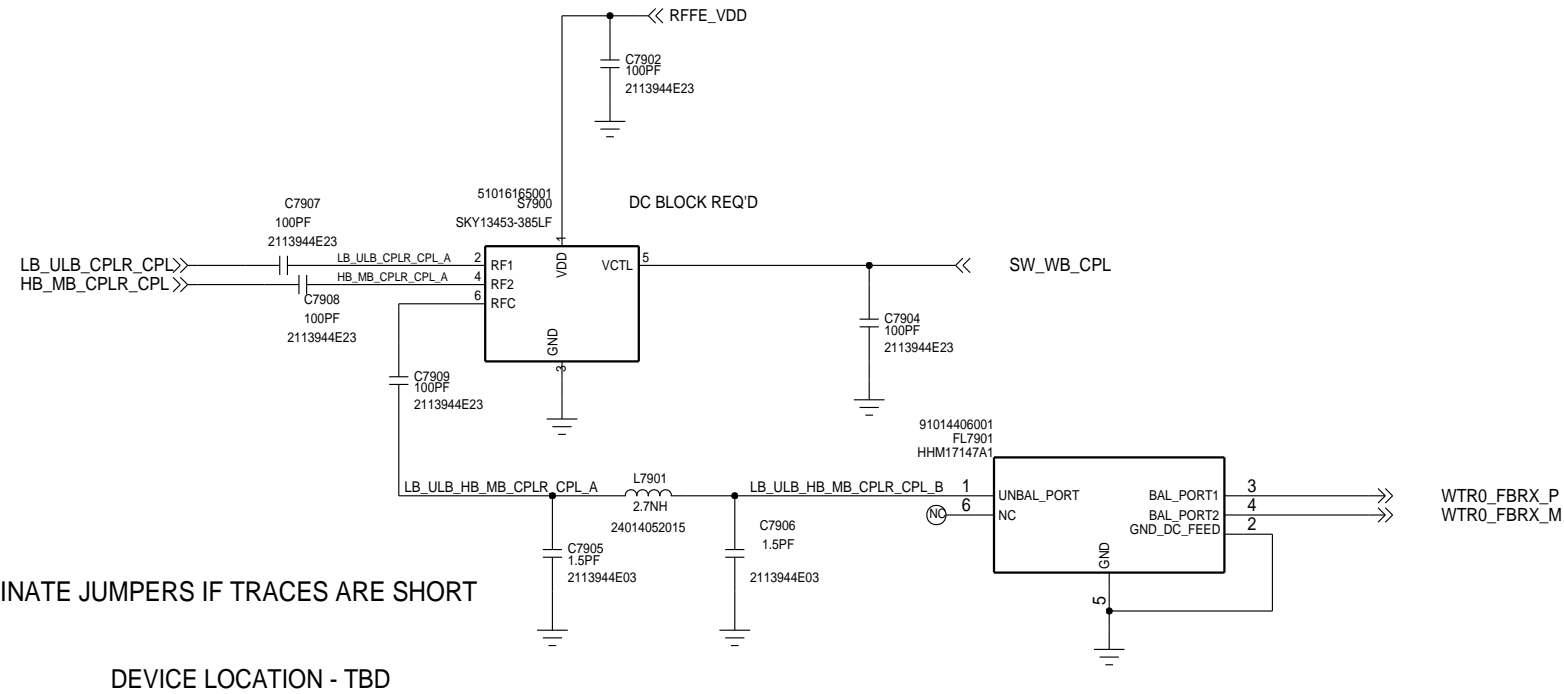
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APPROVALS		MOTOROLA MOBILE DEVICES	
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		CAD FILE NAME:	
		PAGE 77 OF 78	

RFFE: PDET

REF : 7900-7949



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Mon Jun 15 13:21:59 2015		rffe_3ca_dsda_combo	
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		CAD FILE NAME:	
		PAGE 78 OF 78	