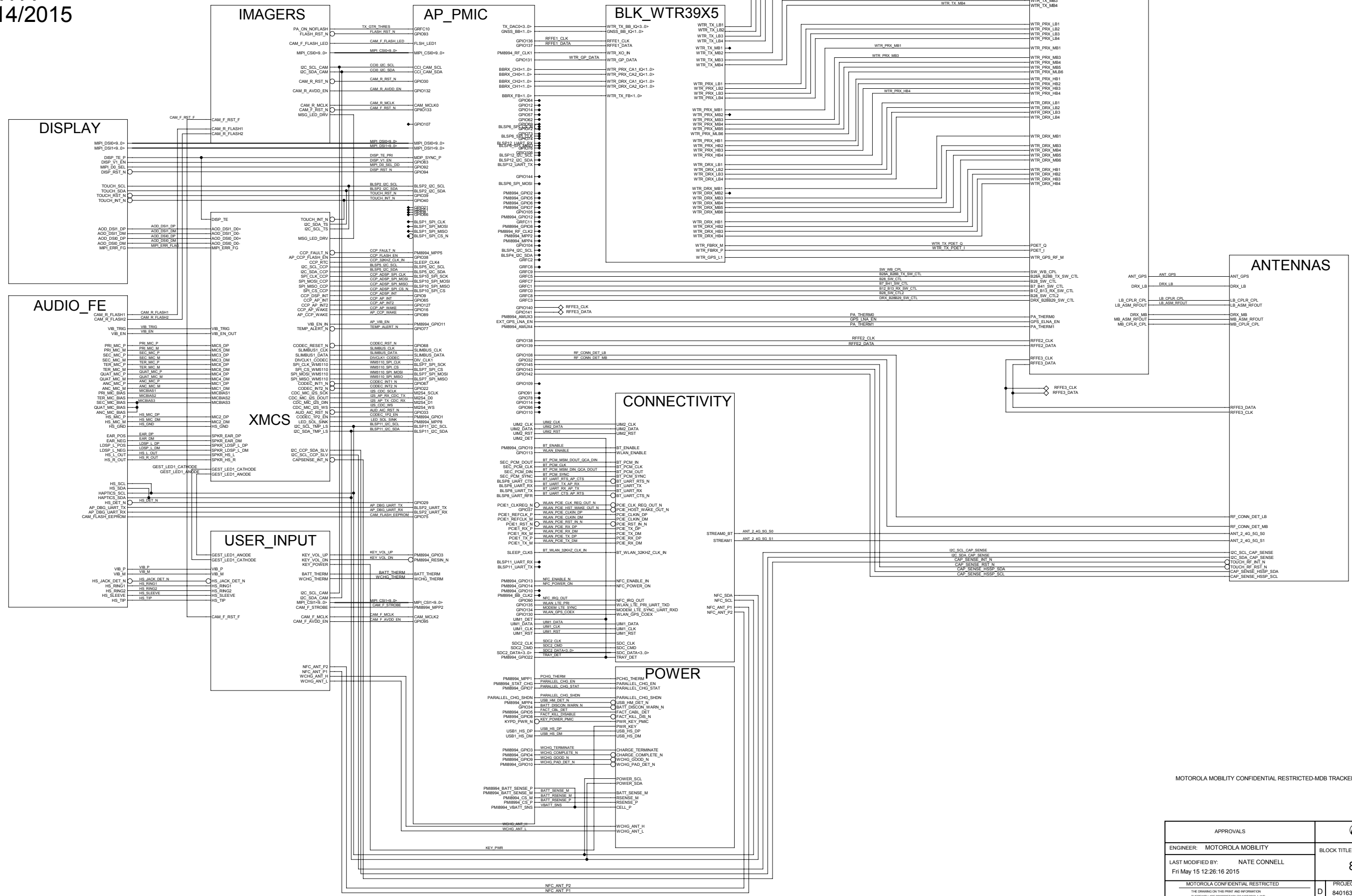


# BOUNCE SYSTEM 4.0

## REV. A

### 05/14/2015

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA MOBILITY		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Fri May 15 12:26:16 2015		84016327001_a_released	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
THE DRAWING ON THIS PRINT AND INFORMATION THEREON ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCLOSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT © MOTOROLA, THE DESIGN NOT A PUBLICATION		84016327001_a_released.cpm	01
CNO FILE NAME:		PAGE 1 OF 76	

# BOUNCE ME/SHIELDS

## BOUNCE REFERENCE DESIGNATOR RANGES BY BLOCK

000 - 499: ANTENNA

500 - 599:: POWER

600 - 899: USER INPUT/PRODUCT FLEX

1000-2999: MSM8994+PM8994+PMI8994

3000-3199: WTR39X5

4000-4499: CONNECTIVITY

4500-4999: AUDIO FE

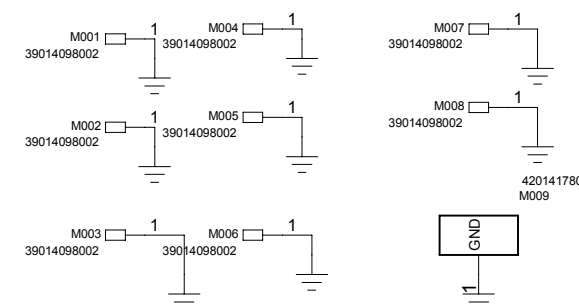
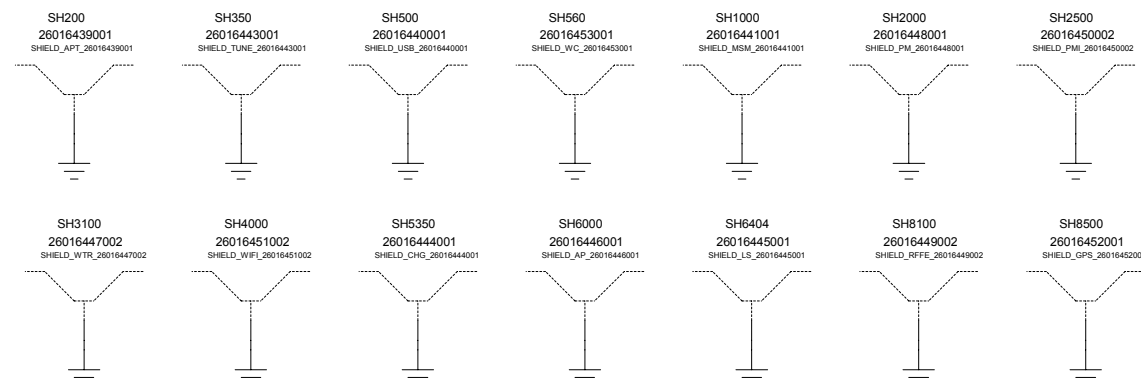
5000-5499: DISPLAY

5500-5999: CAMERA

6000-6999: XMCS

7000-8999: RFFE

9000-9999: PRODUCT-SPECIFIC (FILTERING, 100PF CAPS)

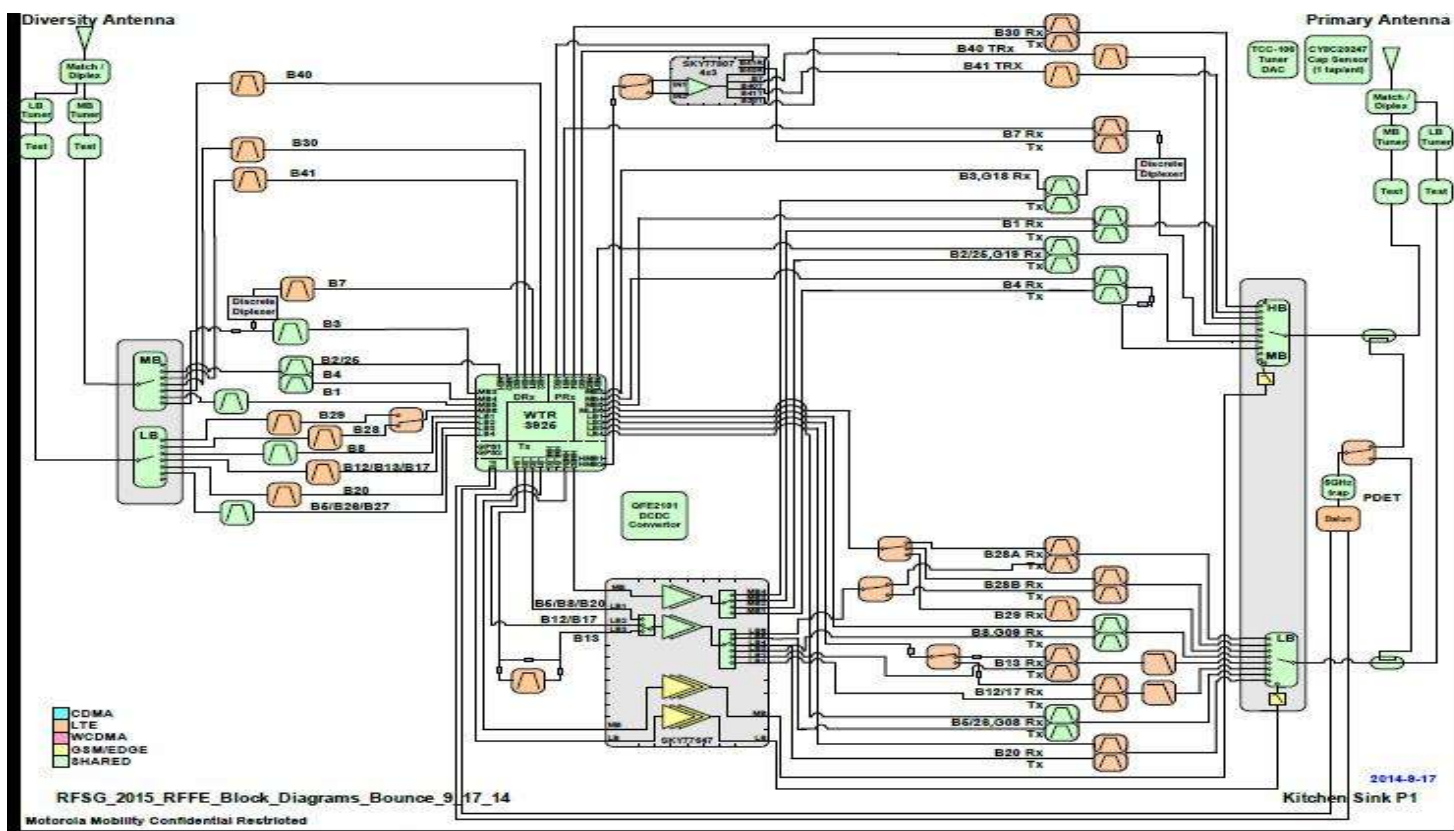
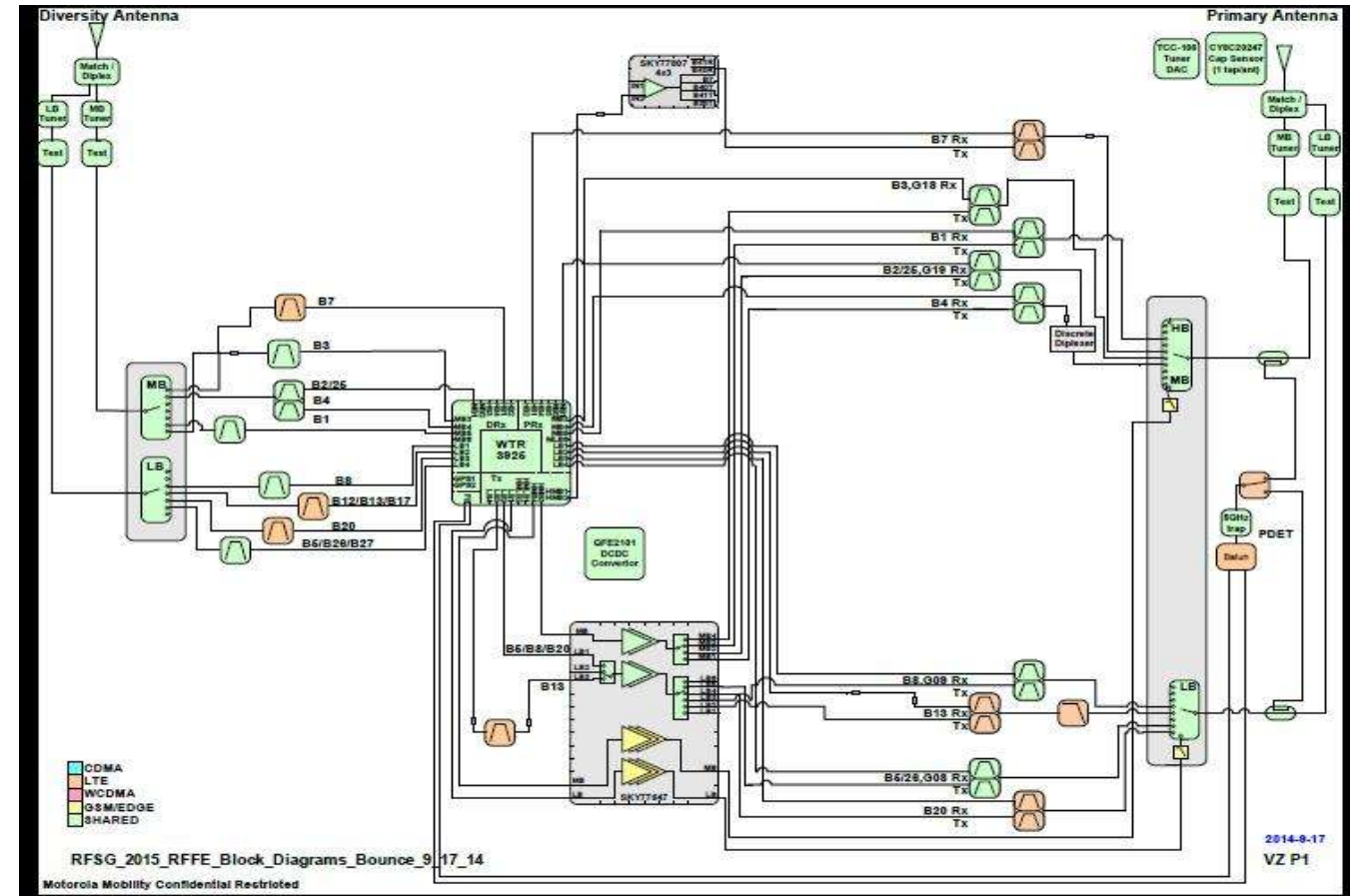
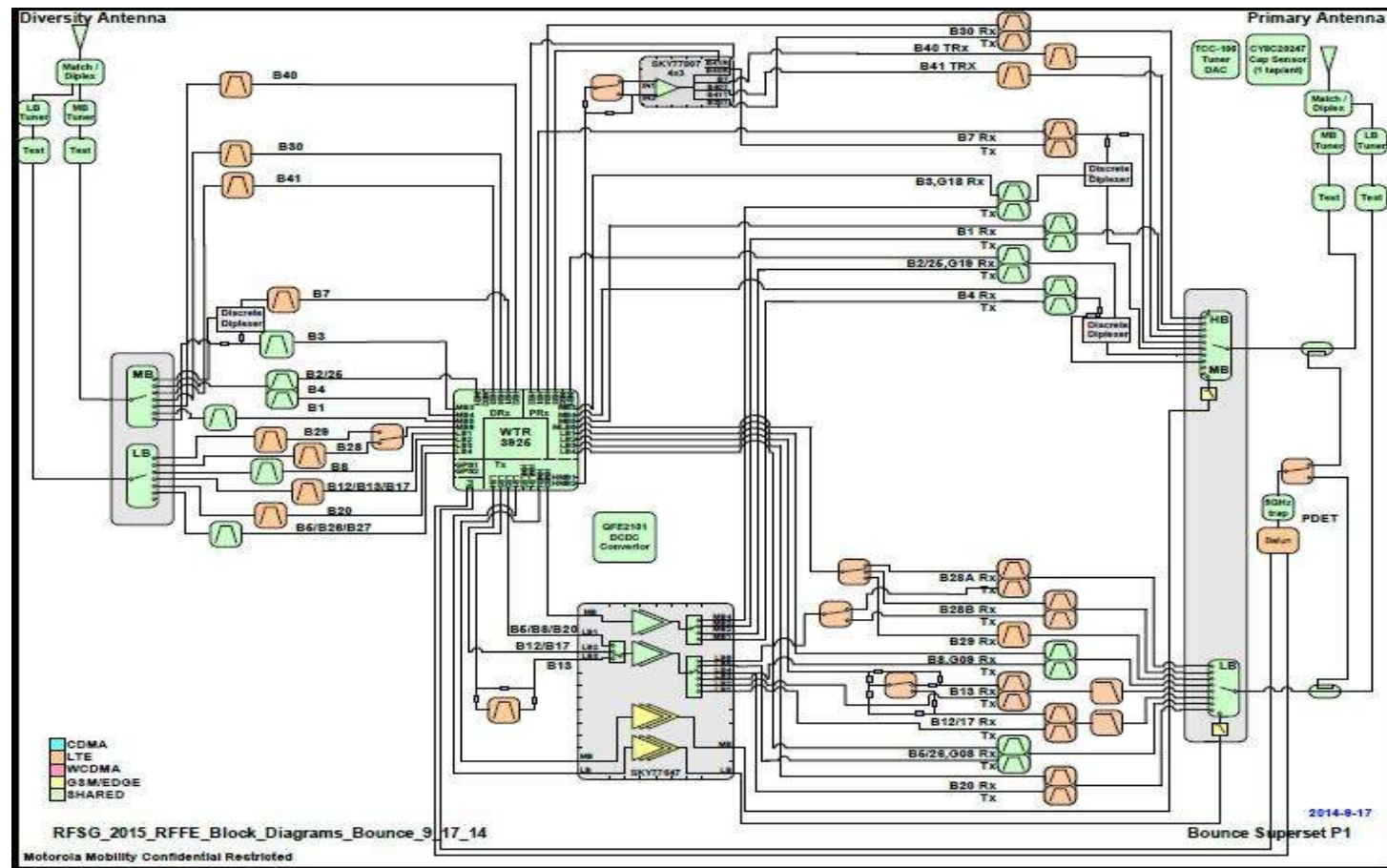


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:20 2015		<b>84016327001_a_released</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 2 OF 76

# RFFE: BLOCK DIAGRAM

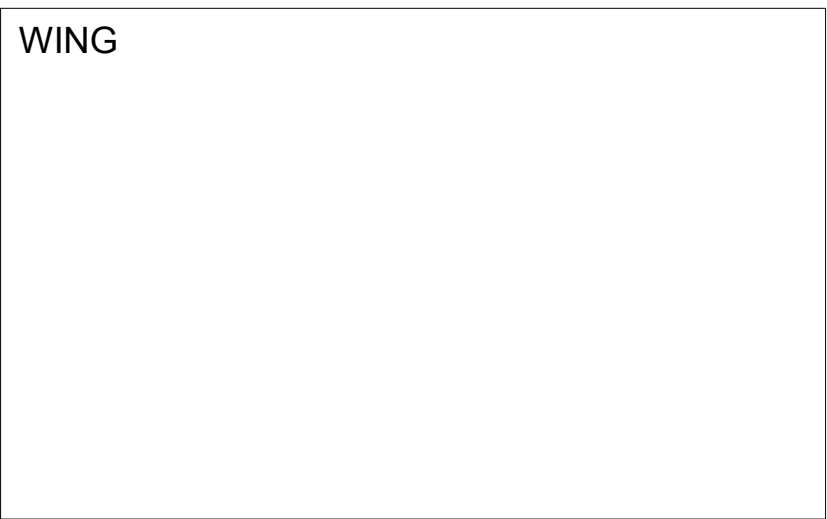
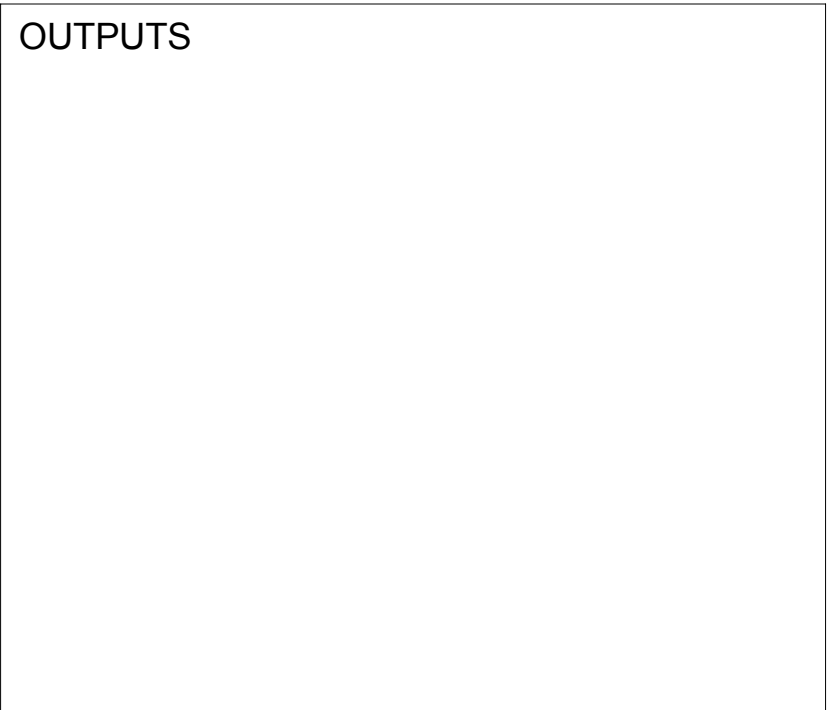
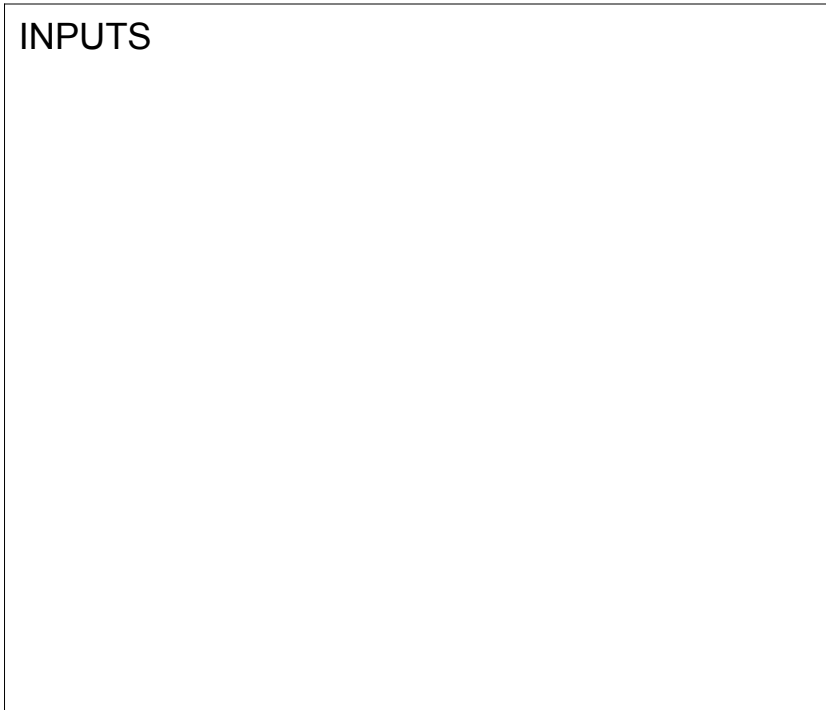
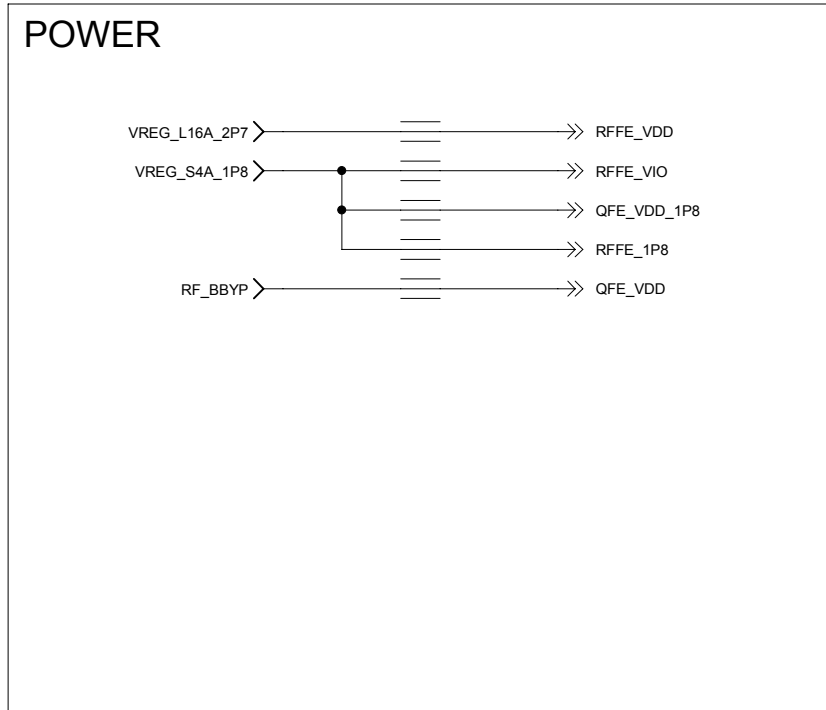
REFDES: 7000-8999



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE: <b>block_rffe</b>	
LAST MODIFIED BY: NATE CONNELL Thu Sep 18 09:29:12 2014		PROJECT NAME 84016327001_a_released.cpm	
MOTOROLA CONFIDENTIAL RESTRICTED		B	REV 01
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		CAD FILE NAME:	
		PAGE 3 OF 76	

# RFFE: PORTS

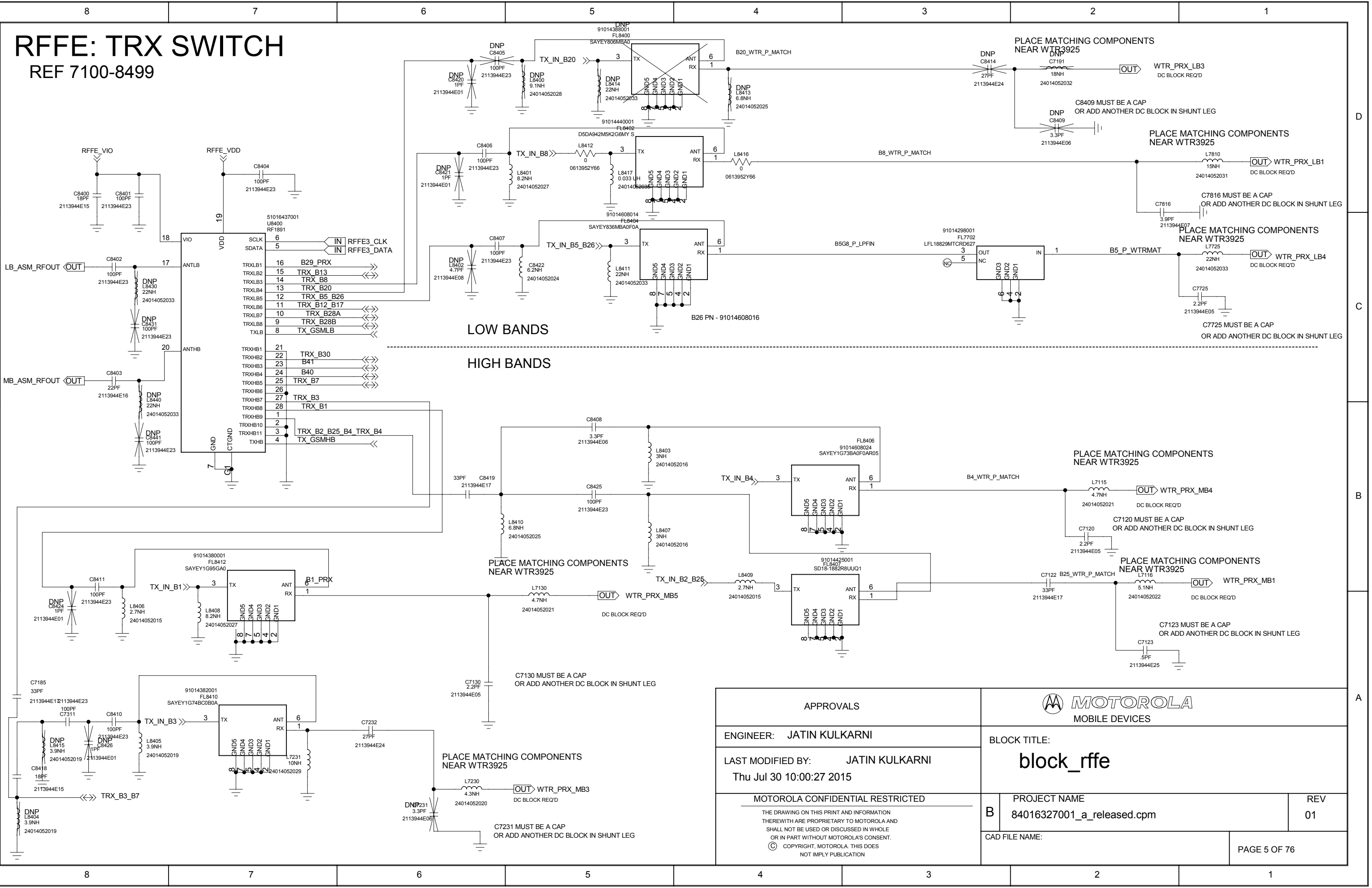
REFDES: 7000-8999



APPROVALS			
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Fri May 15 09:11:01 2015		<b>block_rffe</b>	
<small>MOTOROLA CONFIDENTIAL RESTRICTED</small> <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 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 4 OF 76	

# RFFE: TRX SWITCH

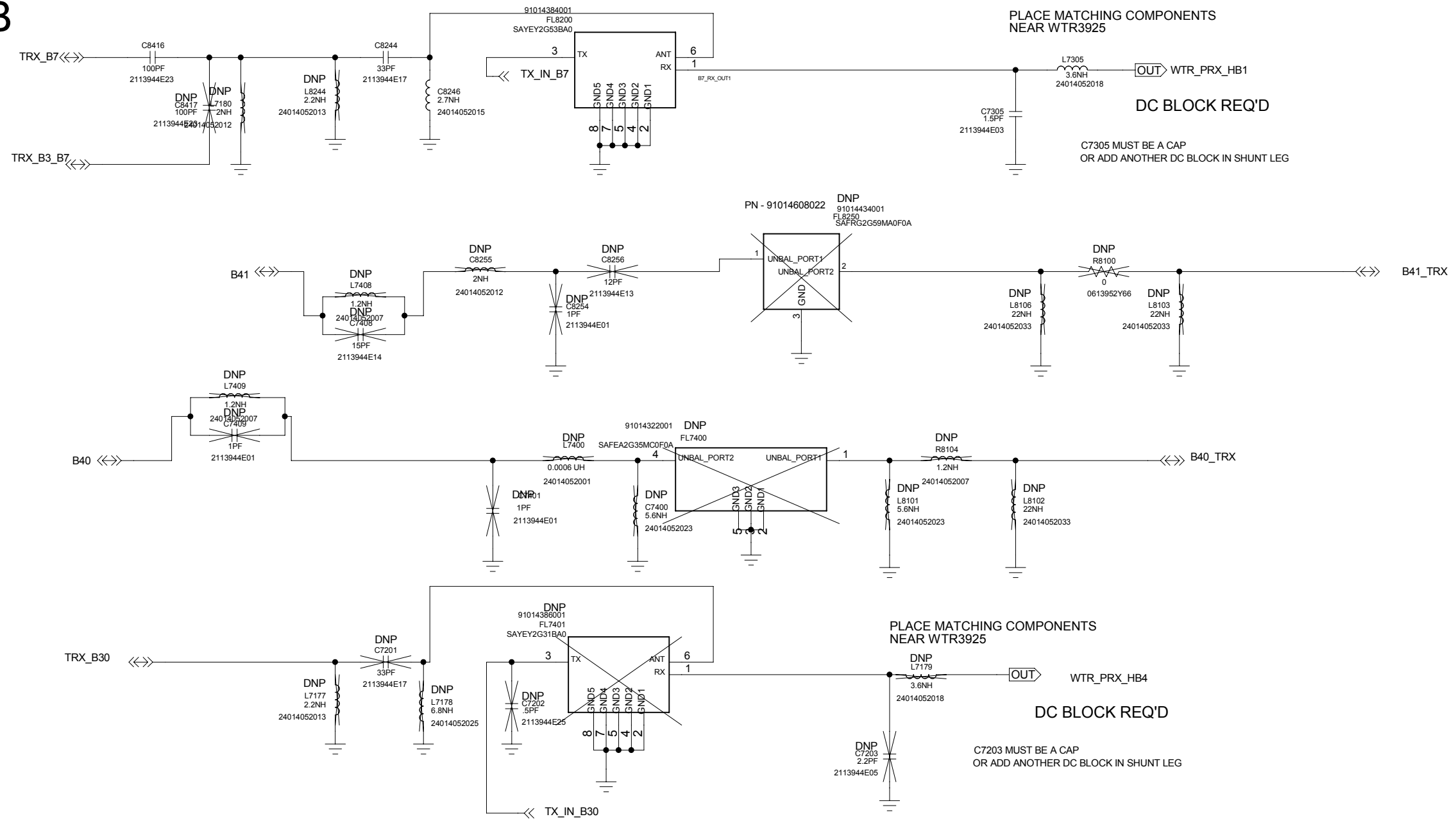
## REF 7100-8499



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: JATIN KULKARNI		BLOCK TITLE:	
LAST MODIFIED BY: JATIN KULKARNI Thu Jul 30 10:00:27 2015		<b>block_rfe</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<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>		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 5 OF 76	

# RFFE: TRX HB

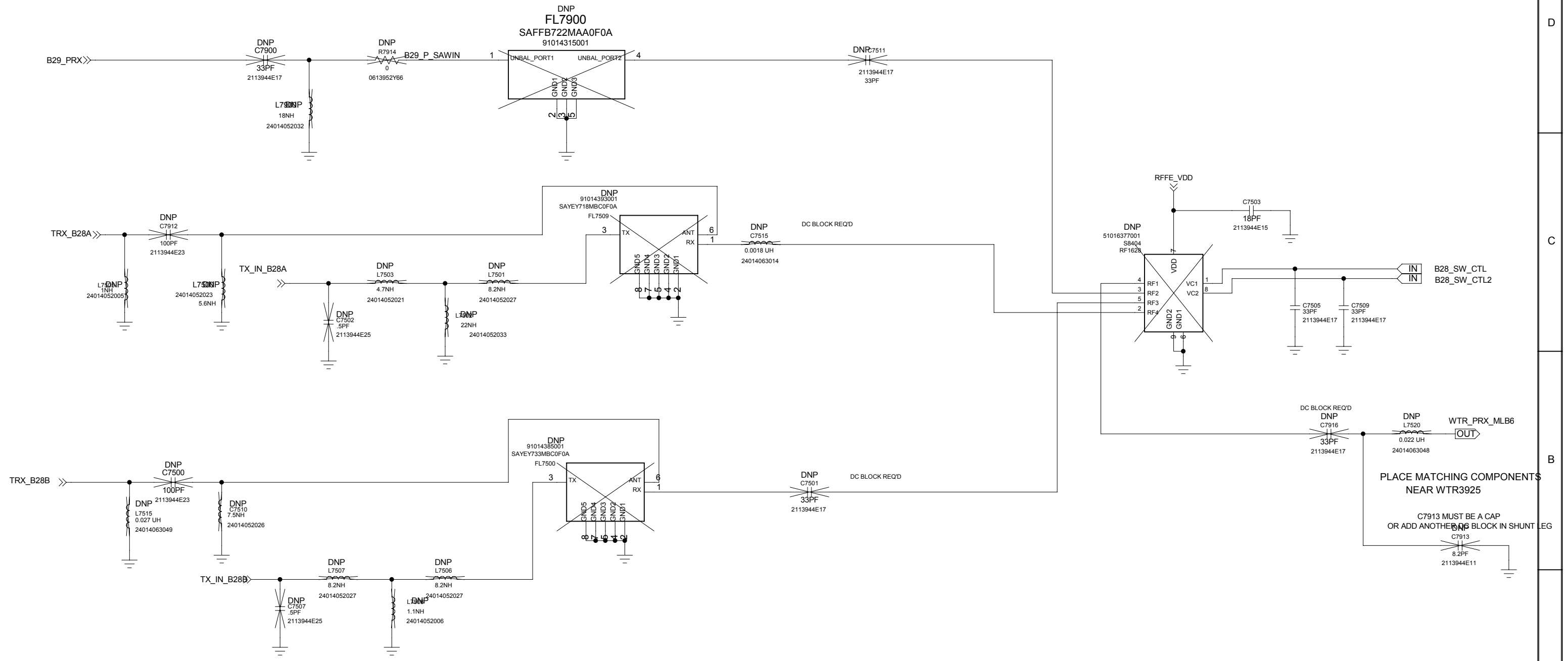
REF 7100-8499



APPROVALS			
ENGINEER: JATIN KULKARNI		BLOCK TITLE:	
LAST MODIFIED BY: JATIN KULKARNI Thu Jul 30 10:00:28 2015		block_rffe	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
		PAGE 6 OF 76	

# RFFE: PRX B29/B28A/B28B

REF 7100-8499

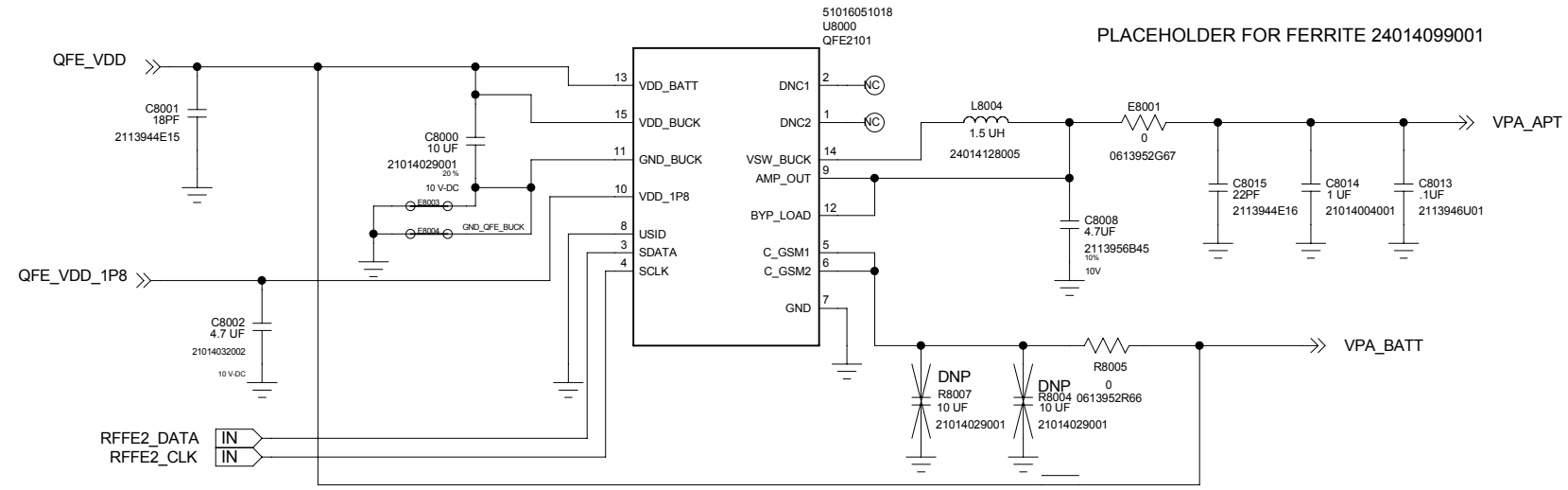


PLACE MATCHING COMPONENTS NEAR WTR3925  
C7913 MUST BE A CAP OR ADD ANOTHER DC BLOCK IN SHUNT LEG


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: JATIN KULKARNI		BLOCK TITLE:	
LAST MODIFIED BY: JATIN KULKARNI Thu Jul 30 10:00:30 2015		<b>block_rfe</b>	
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>80046327001_a_released.cpm</b>	REV <b>01</b>
		PAGE 7 OF 76	

# RFFE: APT

REF 8000-8099



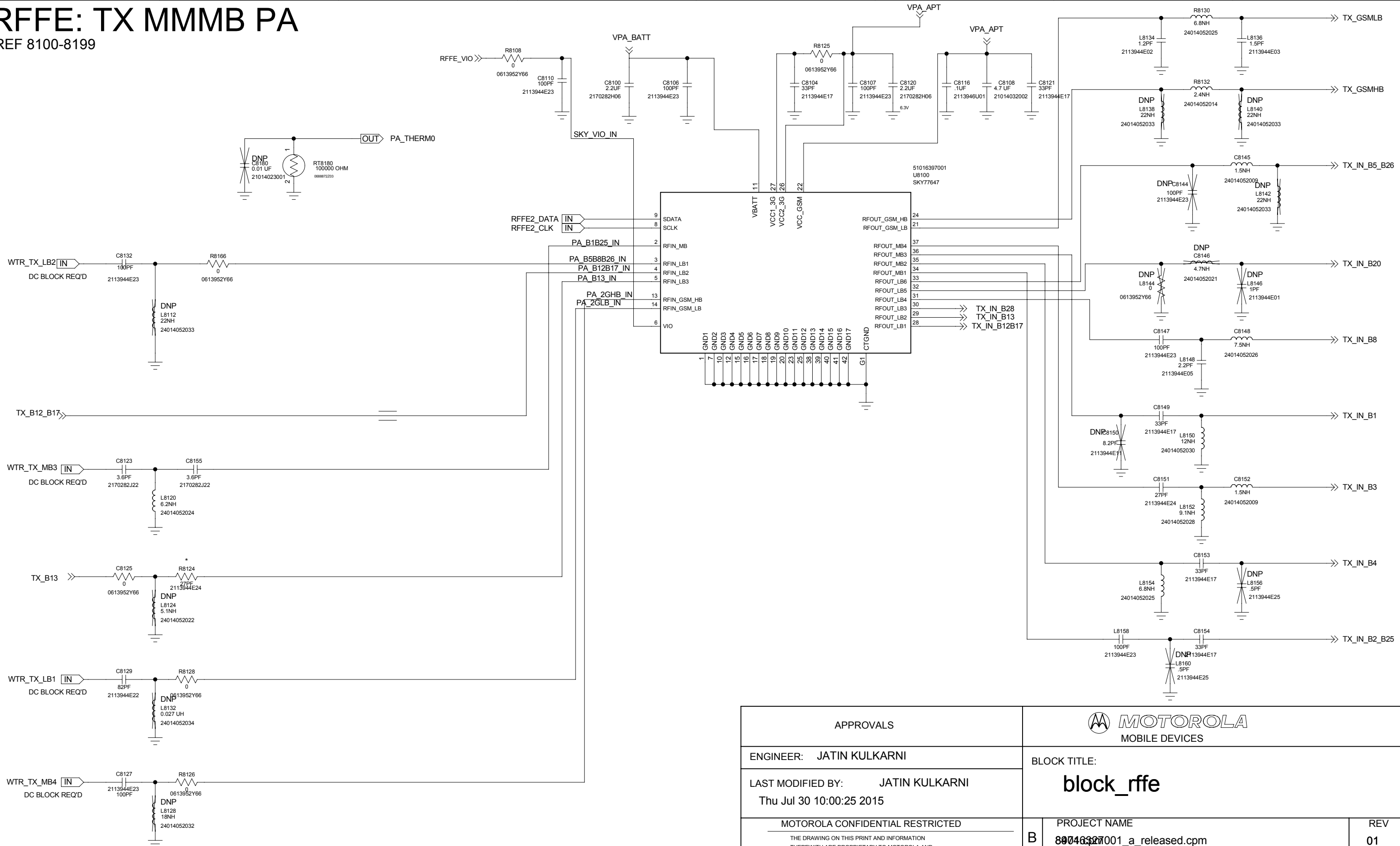
BYPASS OPTION FOR VPA\_VBATT  
DNP APPROPRIATELY

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:31 2015		<b>block_rffe</b>	
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>B</b> 80046327001_a_released.cpm	REV <b>01</b>
		CAD FILE NAME:	
		PAGE 8 OF 76	



# RFFE: TX MMB PA

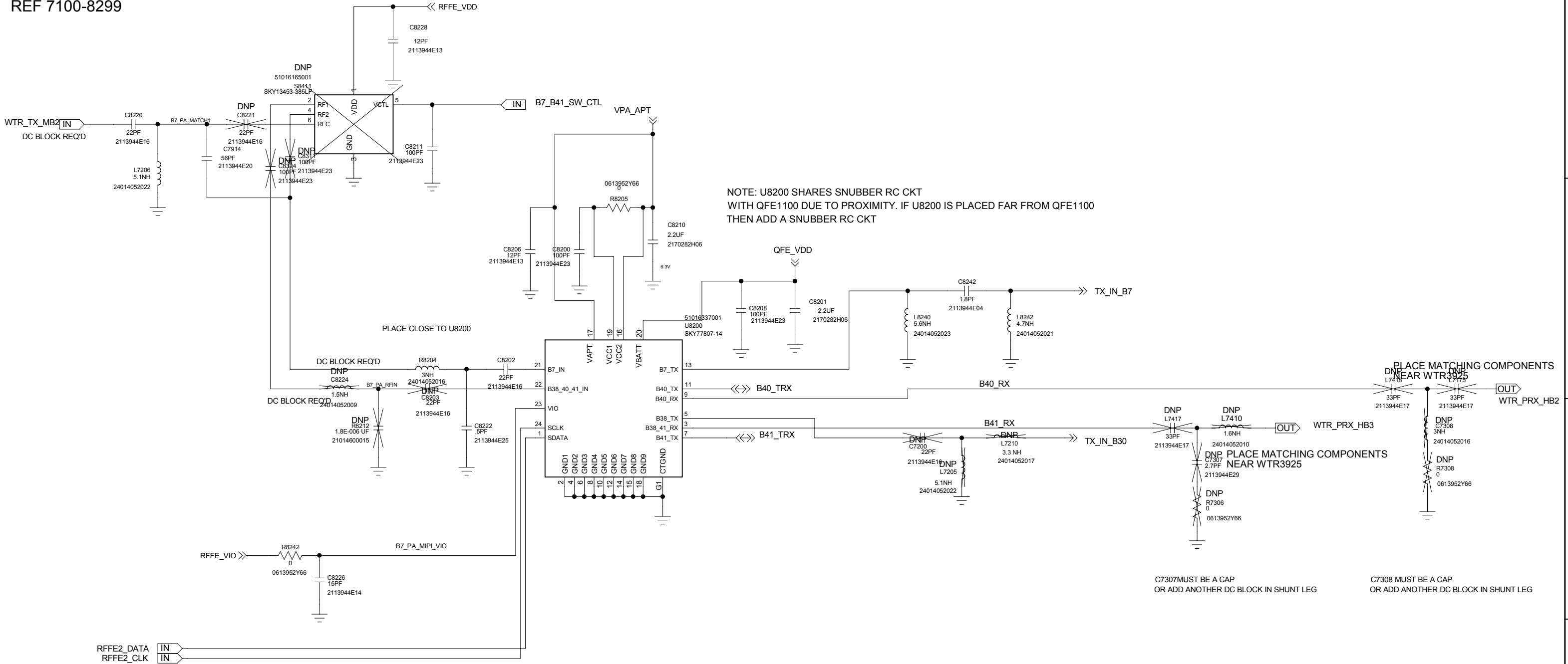
REF 8100-8199




APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: JATIN KULKARNI		BLOCK TITLE:	
LAST MODIFIED BY: JATIN KULKARNI Thu Jul 30 10:00:25 2015		<b>block_rffe</b>	
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>80046327001_a_released.cpm</b>	REV <b>01</b>
		CAD FILE NAME:	
		PAGE 9 OF 76	

# RFFE: TX B7/B38/B41

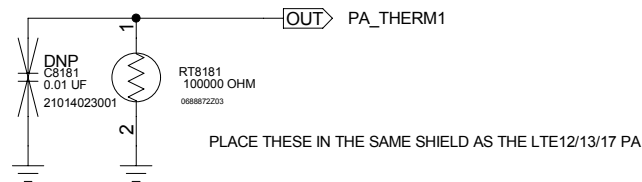
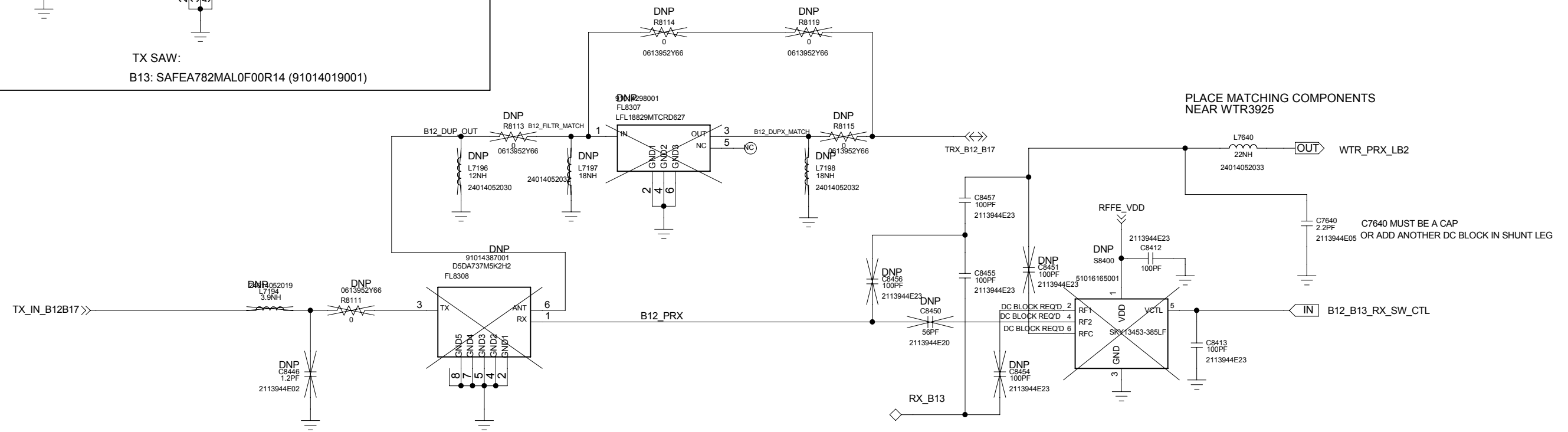
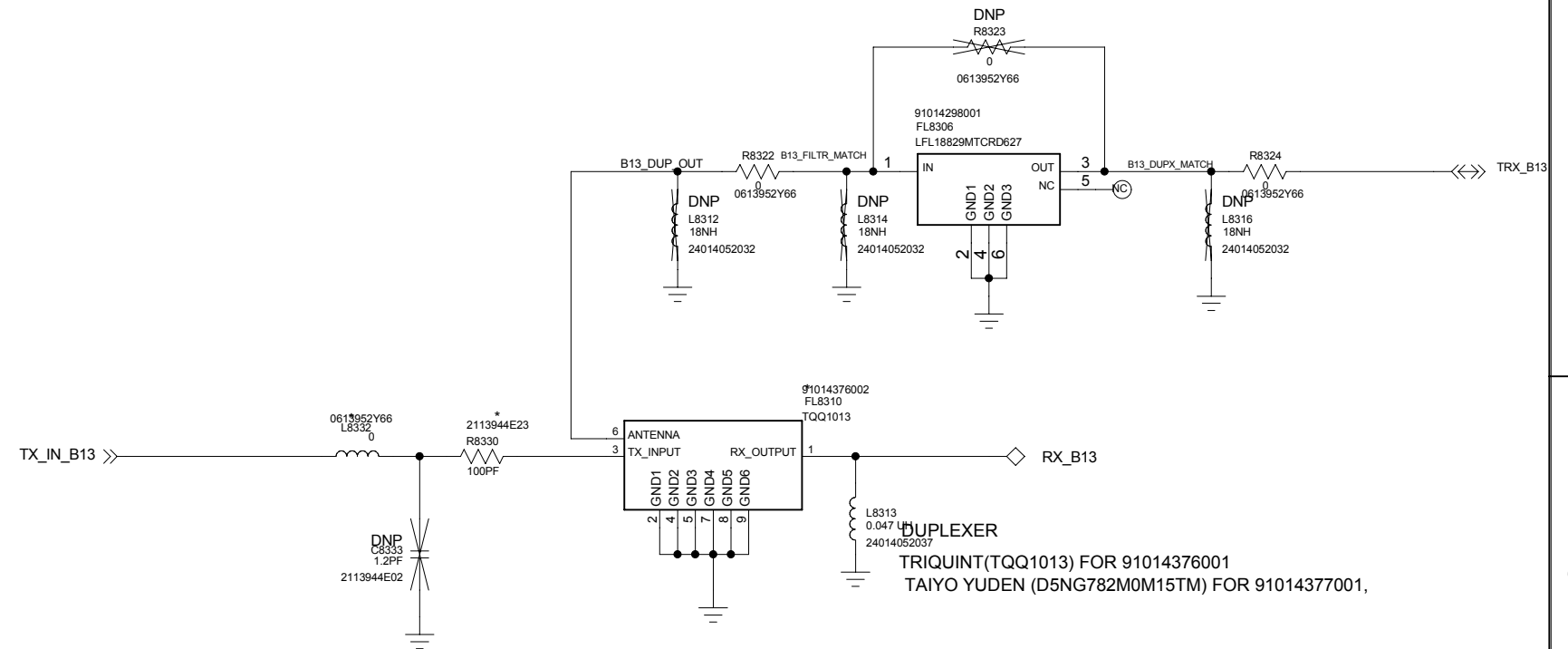
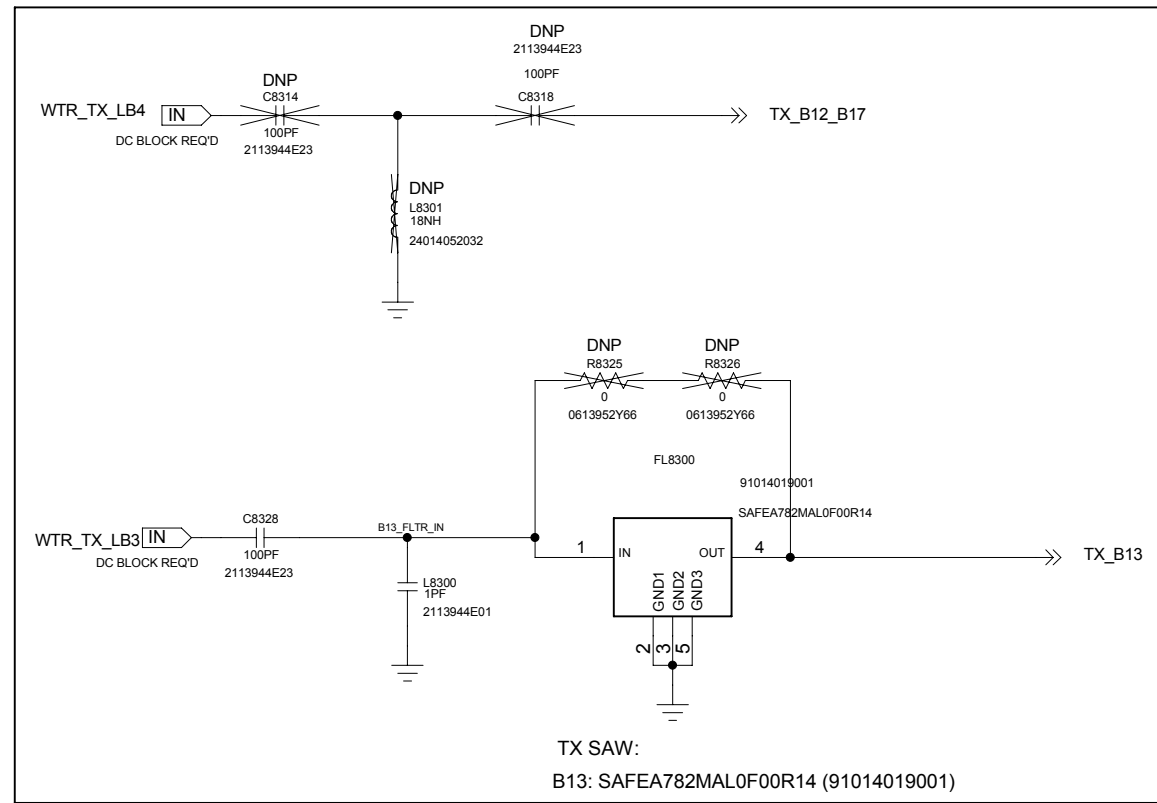
REF 7100-8299



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:28 2015		<b>block_rffe</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 80046327001_a_released.cpm	01
		CAD FILE NAME:	
		PAGE 10 OF 76	

# RFFE: TXB13/12/17

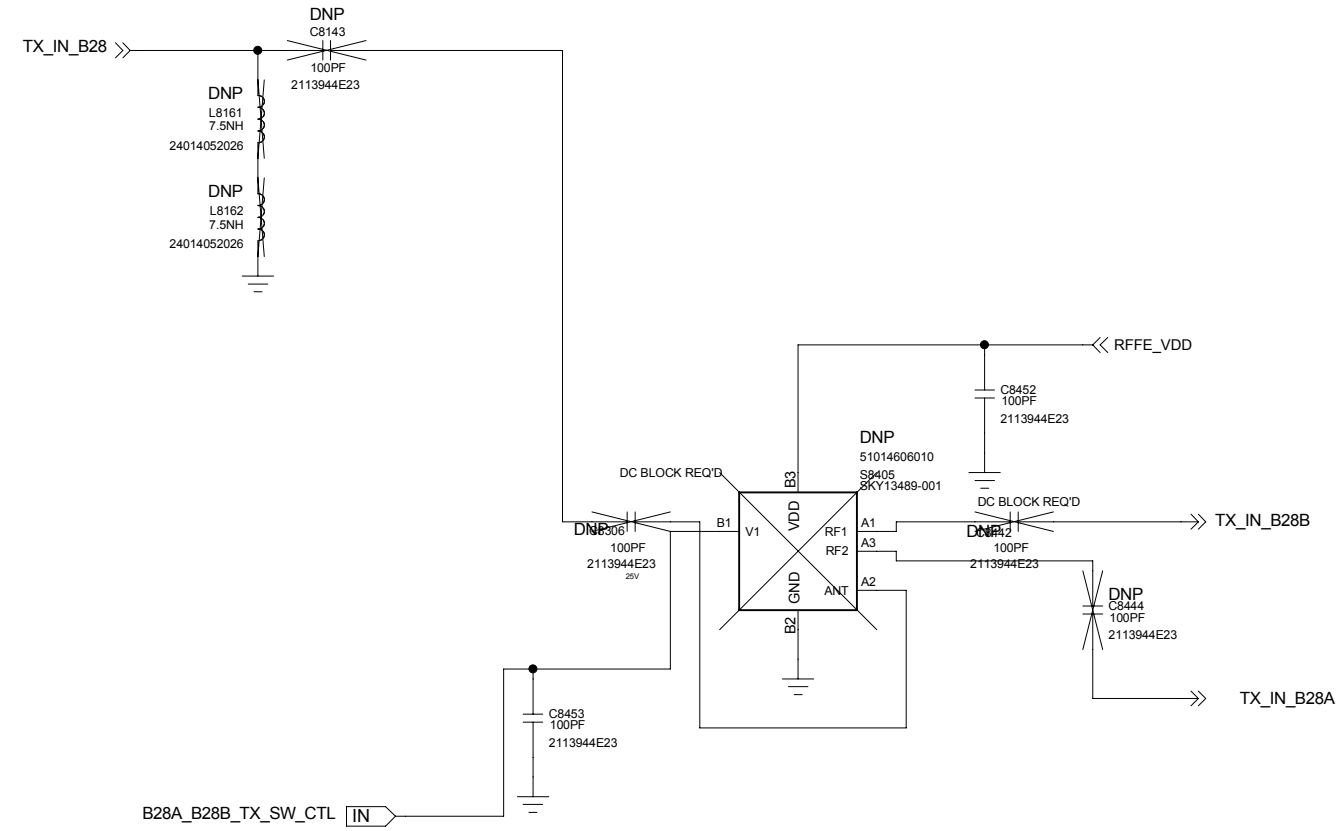
REF 7600-8399



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:25 2015		<b>block_rffe</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 80046327 001_a_released.cpm	01
CAD FILE NAME:		PAGE 11 OF 76	

# RFFE: TX B28A/B28B

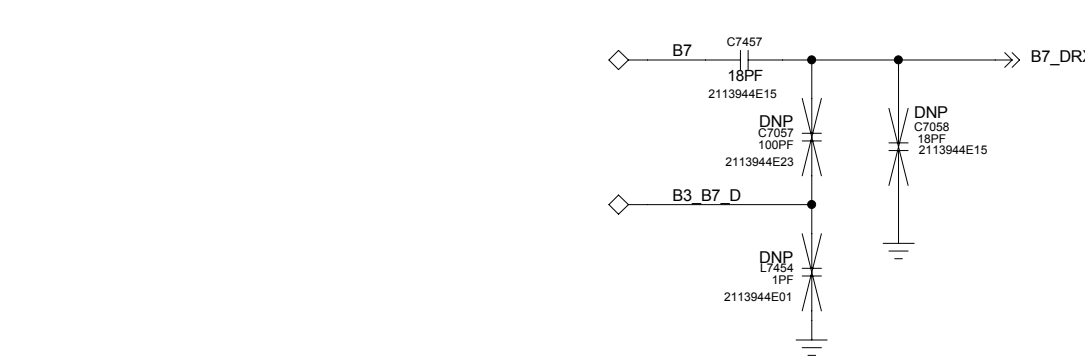
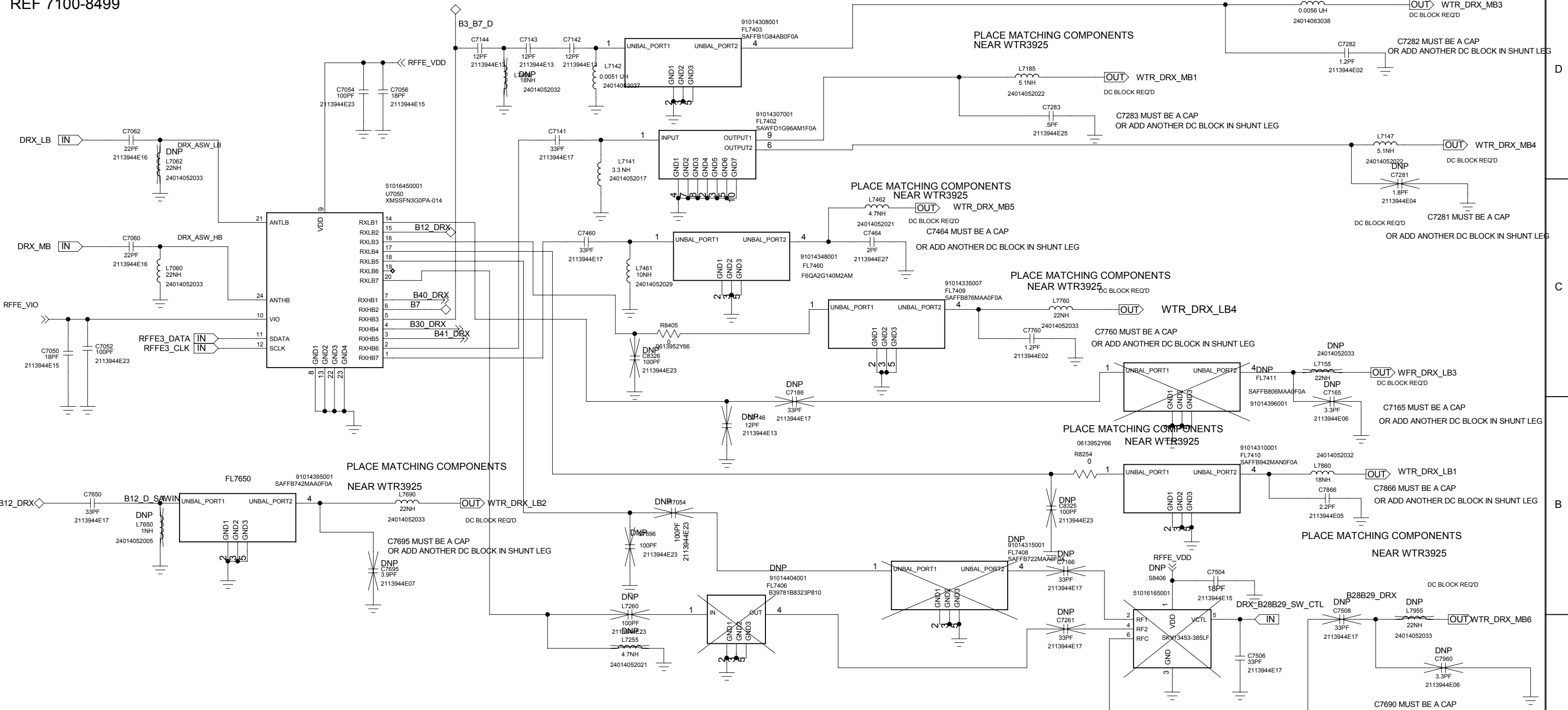
REF 7600-8399



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:29 2015		<b>block_rffe</b>	
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>B 80046327001_a_released.cpm</b>	REV <b>01</b>
CAD FILE NAME:			PAGE 12 OF 76

# RFFE: DRX ANTENNA SWITCH

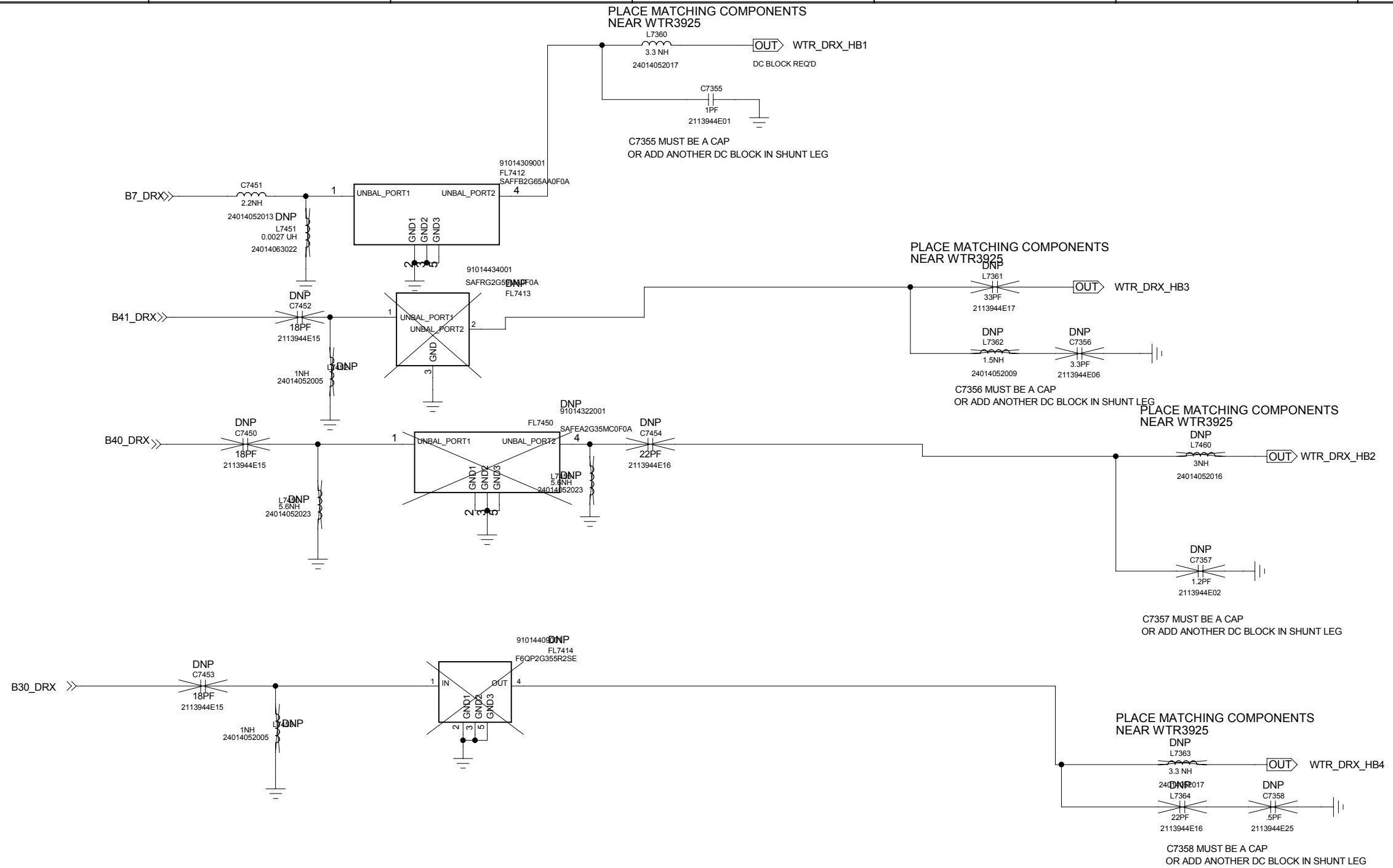
REF 7100-8499



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: JATIN KULKARNI		BLOCK TITLE:	
LAST MODIFIED BY: JATIN KULKARNI Thu Jul 30 10:00:24 2015		<b>block_rffe</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		<b>B</b> 80046327001_a_released.cpm	01
CAD FILE NAME:		PAGE 13 OF 76	

# RFFE: DRX HB

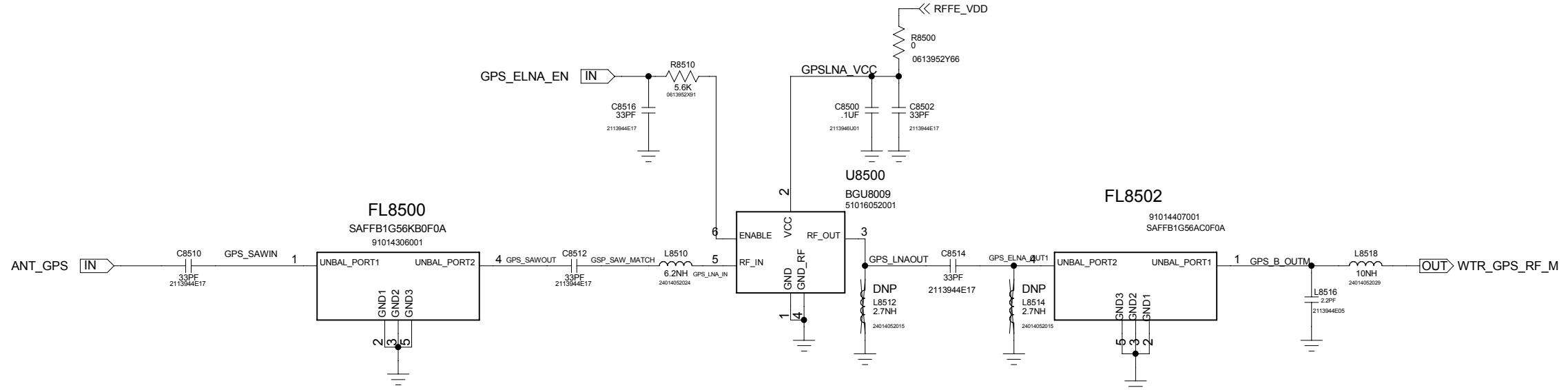
REF 7100-8499




APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: JATIN KULKARNI		BLOCK TITLE:	
LAST MODIFIED BY: JATIN KULKARNI Thu Jul 30 10:00:29 2015		<b>block_rffe</b>	
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>B 80046327001_a_released.cpm</b>	REV <b>01</b>
		CAD FILE NAME:	
		PAGE 14 OF 76	

# RFFE: GPS

REF : 8500-8549

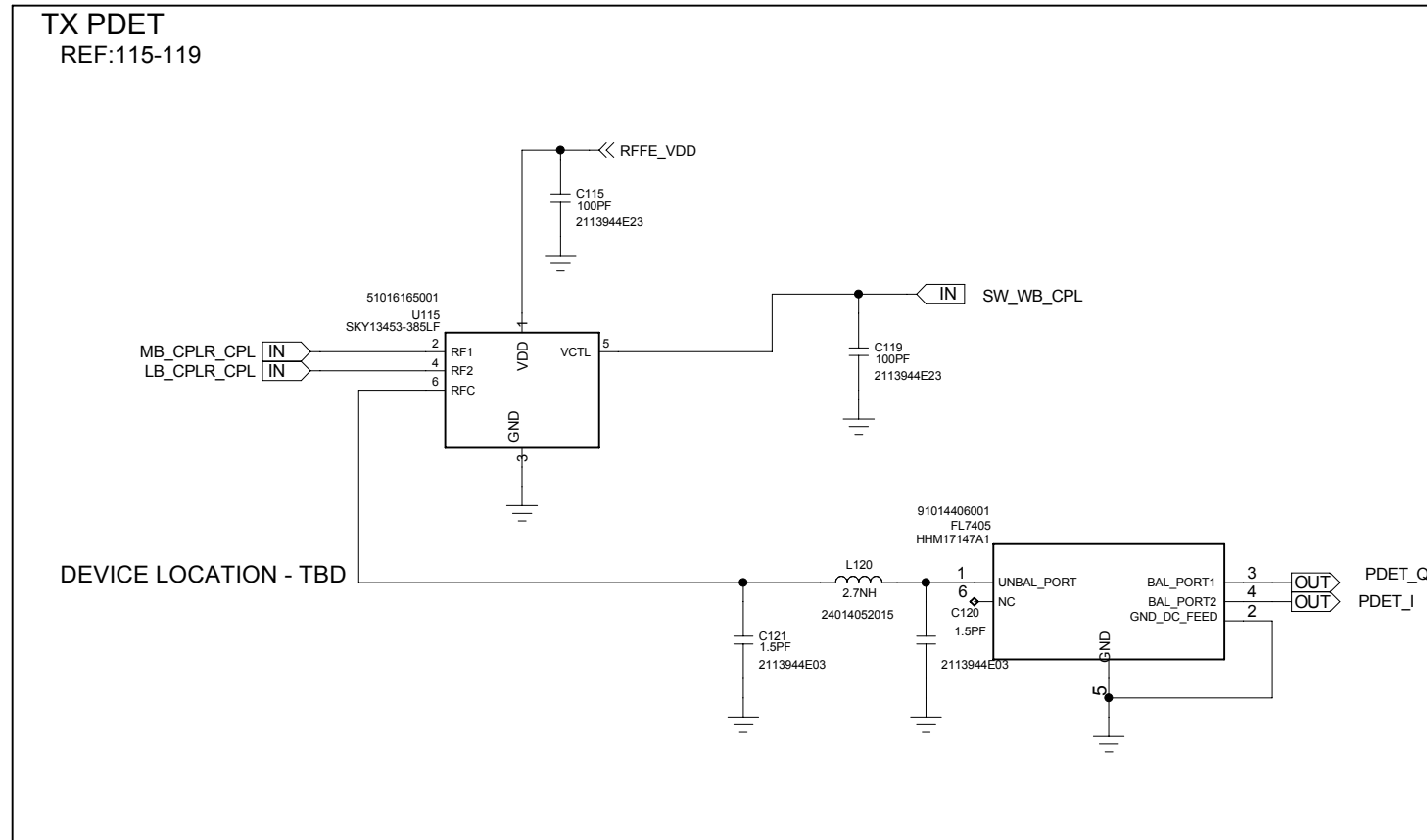


PLACE IN WTR1625 SHIELD

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:26 2015		<b>block_rffe</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 80046327001_a_released.cpm	01
		CAD FILE NAME:	
		PAGE 15 OF 76	

# RFFE: PDET

REF : 8500-8549



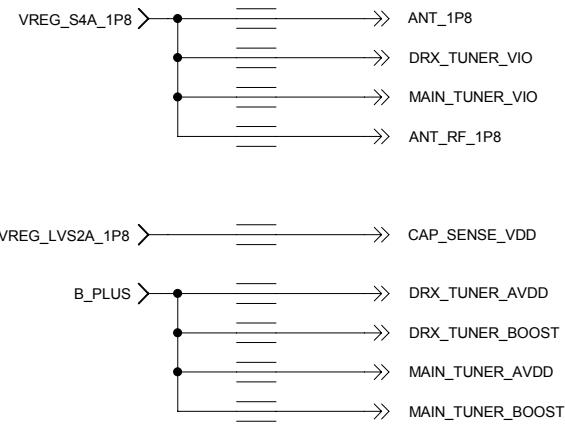
APPROVALS			
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:30 2015		<b>block_rffe</b>	
<b>MOTOROLA CONFIDENTIAL RESTRICTED</b> <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 80046327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 16 OF 76	



# ANT: PORTS

REFDES: 000 - 499

## SUPPLIES



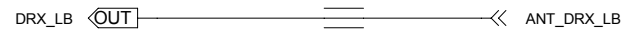
## TX MID BAND ANTENNA



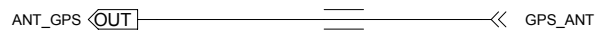
## TX LOW BAND ANTENNA



## DRX LOW BAND ANTENNA



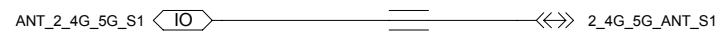
## GPS ANTENNA



## BT/WLAN ANTENNA



## WLAN ANTENNA 2 (FOR 2X2 MIMO SUPPORT)



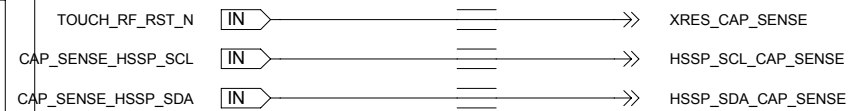
## DRX MID BAND ANTENNA



## INTERFACES



## GPIO - INPUT



## GPIO - OUTPUT



### APPROVALS

ENGINEER: MOTOROLA

LAST MODIFIED BY: MOTOROLA  
Fri May 15 09:10:52 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

**antennas**

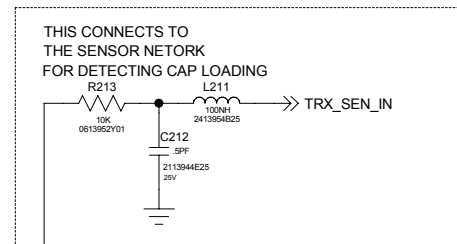
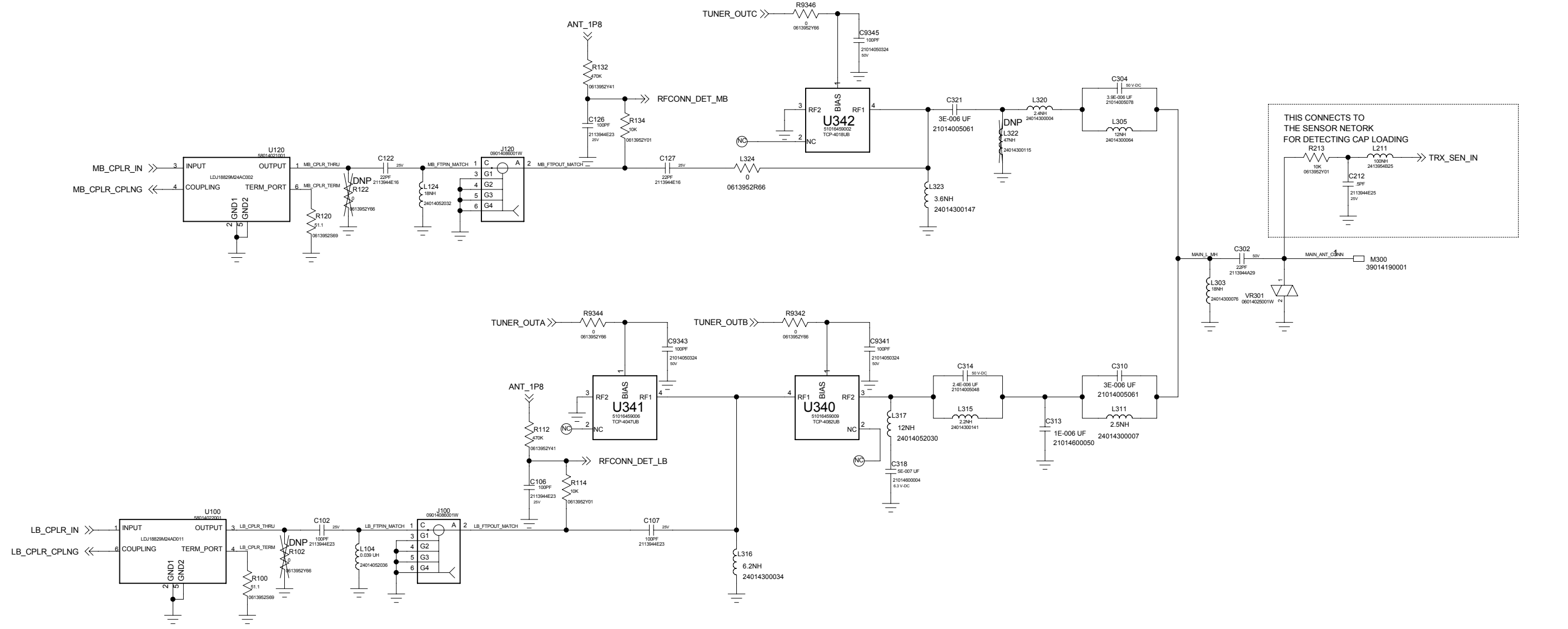
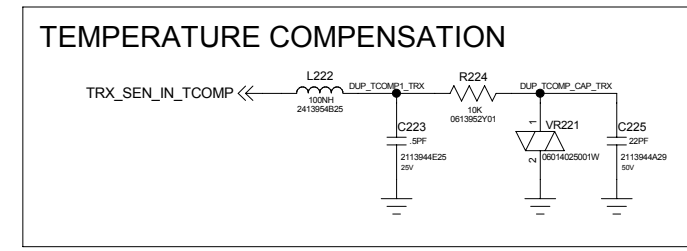
PROJECT NAME  
84016327001\_a\_released.cpm

REV  
01

CAD FILE NAME:

PAGE 17 OF 76

# ANT: MAIN

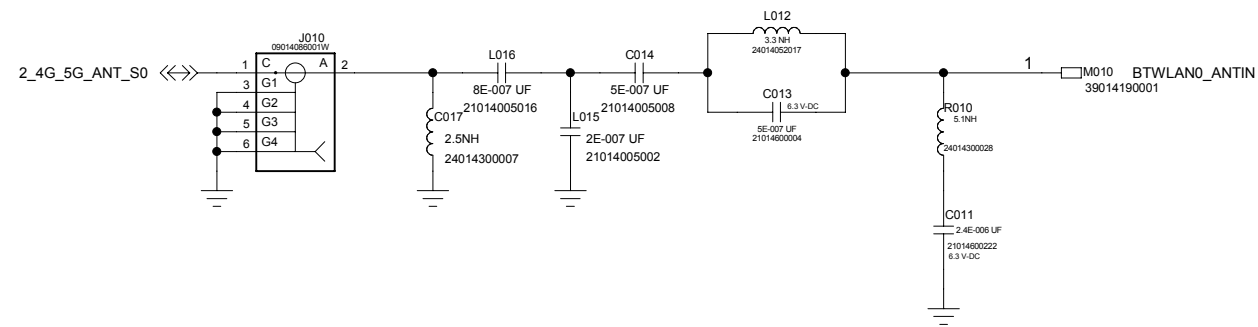


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

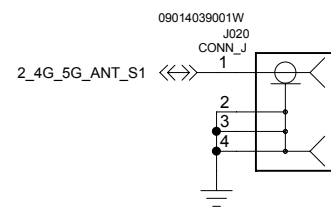
APPROVALS			
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:33 2015		<b>antennas</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT.		B 84016327001_a_released.cpm	01
© COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION		PAGE 18 OF 76	

# ANT: WLAN


**BT/WLAN CHAIN0 ANTENNA**  
REF:010-019



**WLAN CHAIN1 ANTENNA**  
REF:020-029

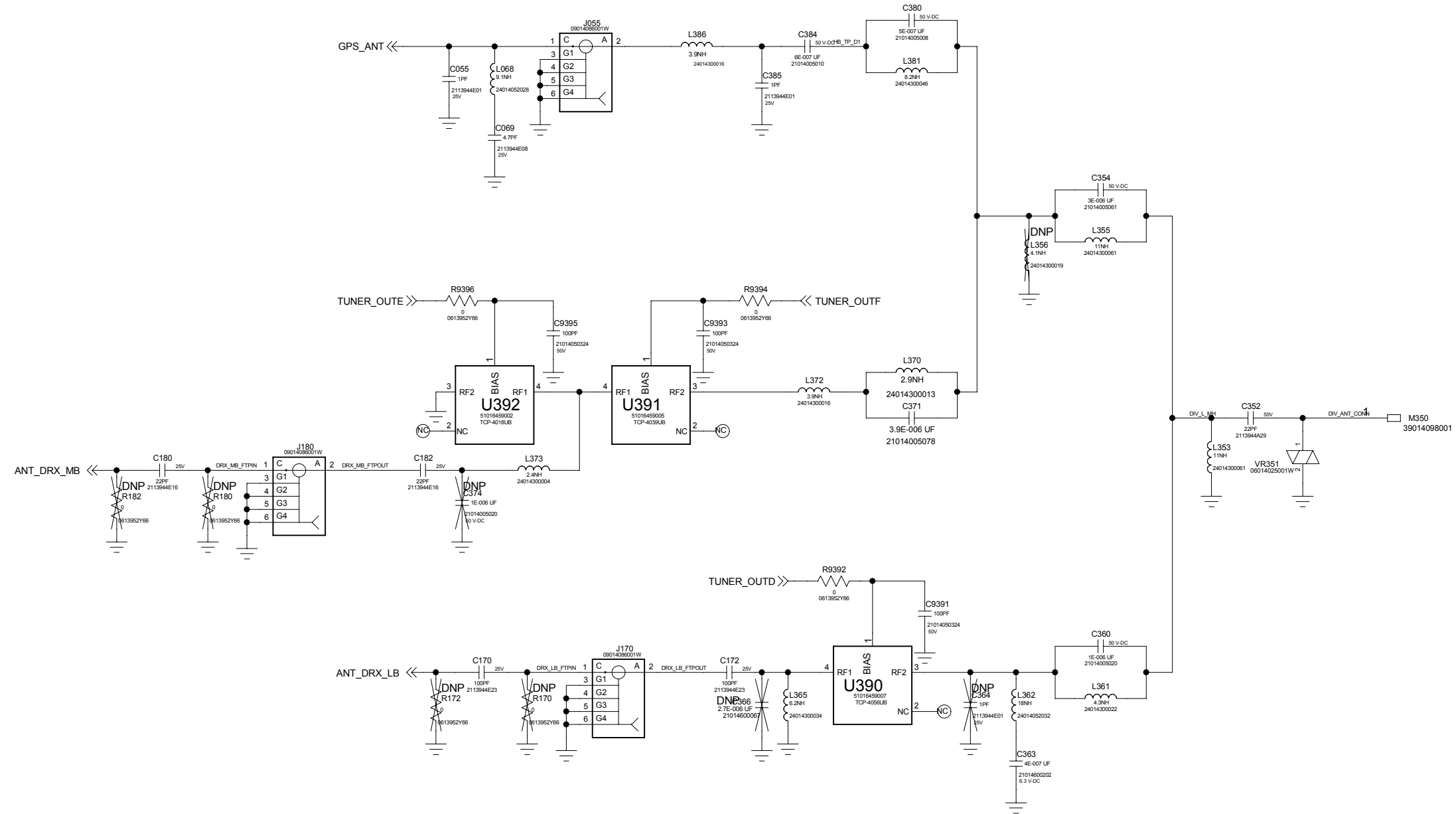


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:34 2015		<b>antennas</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
		PAGE 19 OF 76	

# ANT: DIV/GPS

REFDES: 300-399

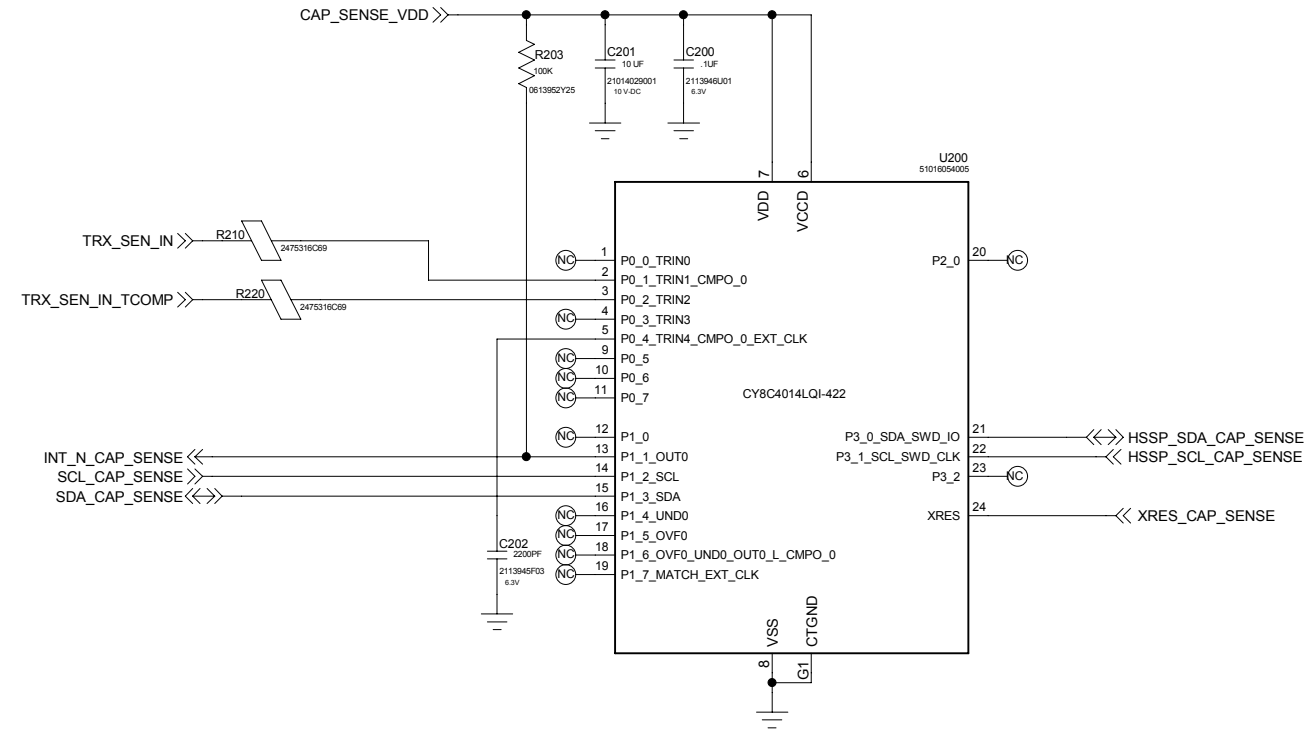


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:33 2015		<b>antennas</b>	
MOTOROLA CONFIDENTIAL RESTRICTED 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		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 20 OF 76	

# ANT: CAP SENSE

REFDES: 200-299



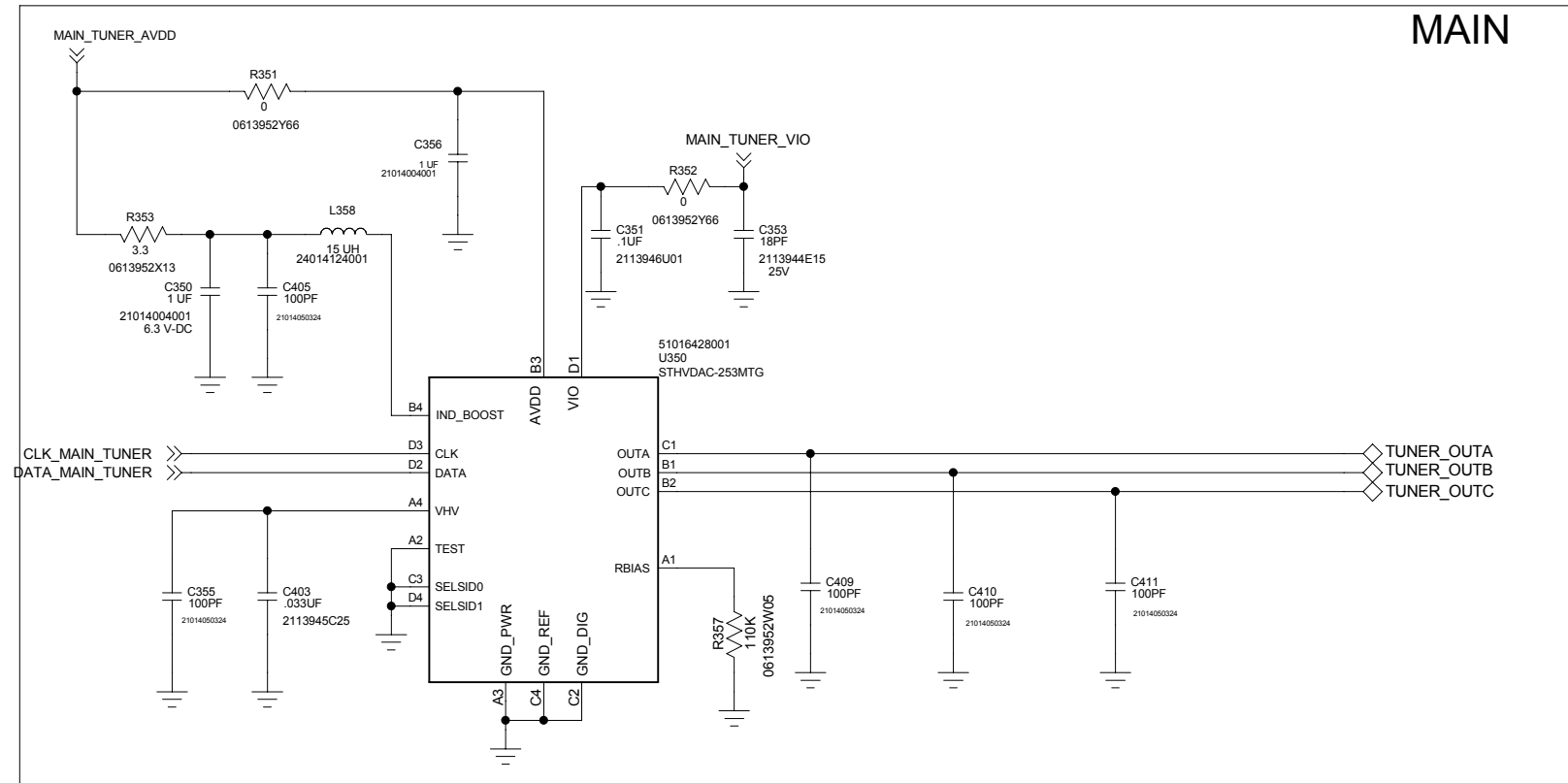
APPROVALS			
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:34 2015		<b>antennas</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION		B 84016327001_a_released.cpm	01
		PAGE 21 OF 76	

# ANT: TUNERS

REFDES: 400-499

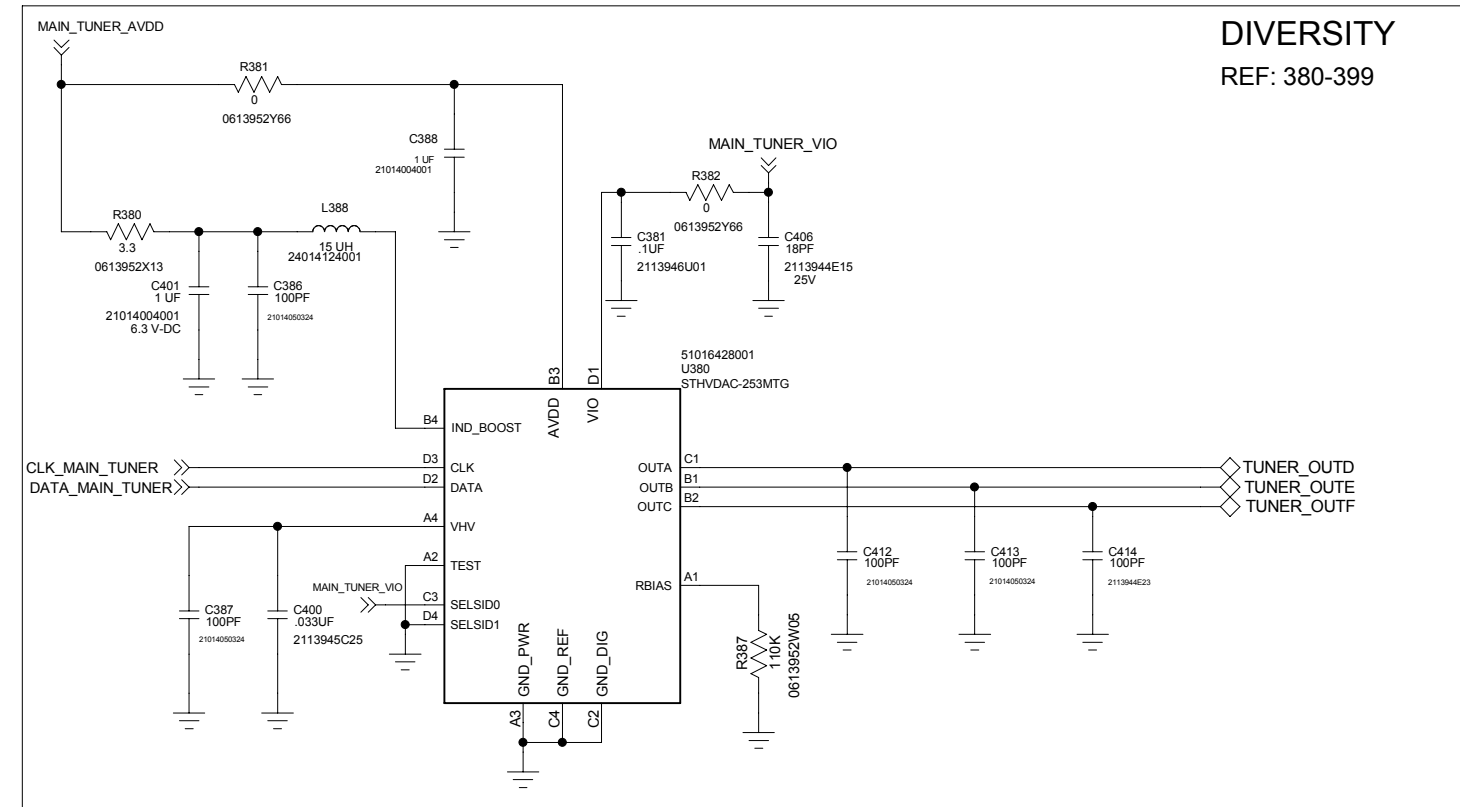
REF: 350-399

MAIN



DIVERSITY

REF: 380-399



APPROVALS



ENGINEER: MOTOROLA

BLOCK TITLE:

antennas

LAST MODIFIED BY: MOTOROLA  
Thu Jul 30 10:00:34 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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

PROJECT NAME  
B 84016327001\_a\_released.cpm

REV  
01

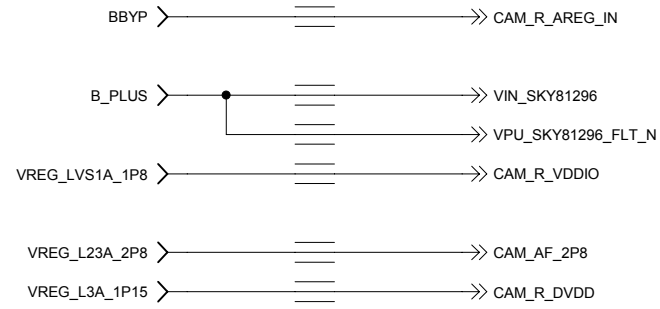
CAD FILE NAME:

PAGE 22 OF 76

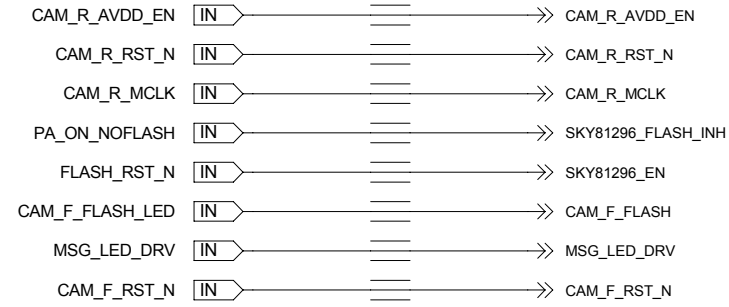
# CAM: PORTS

REF 5500-5999

## SUPPLIES



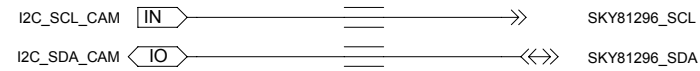
## INPUTS



## OUTPUTS



## INTERFACES



### APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL  
 Fri May 15 09:10:46 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

**imagers**

PROJECT NAME  
 B 84016327001\_a\_released.cpm

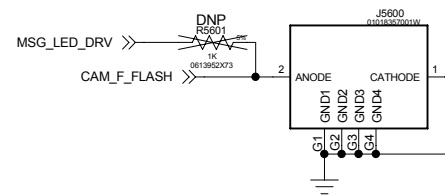
REV  
 01

CAD FILE NAME:


PAGE 23 OF 76

CAM: FRONT  
REF 5600-5699

# FRONT CAMERA LIVES ON TOP FLEX PLEASE SEE USR:TOP FLEX PAGE



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: JOHN KRAMER		BLOCK TITLE:	
LAST MODIFIED BY: UID ELRAN Thu Jul 30 10:00:35 2015		<b>imagers</b>	
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>B</b> 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	PAGE 24 OF 76

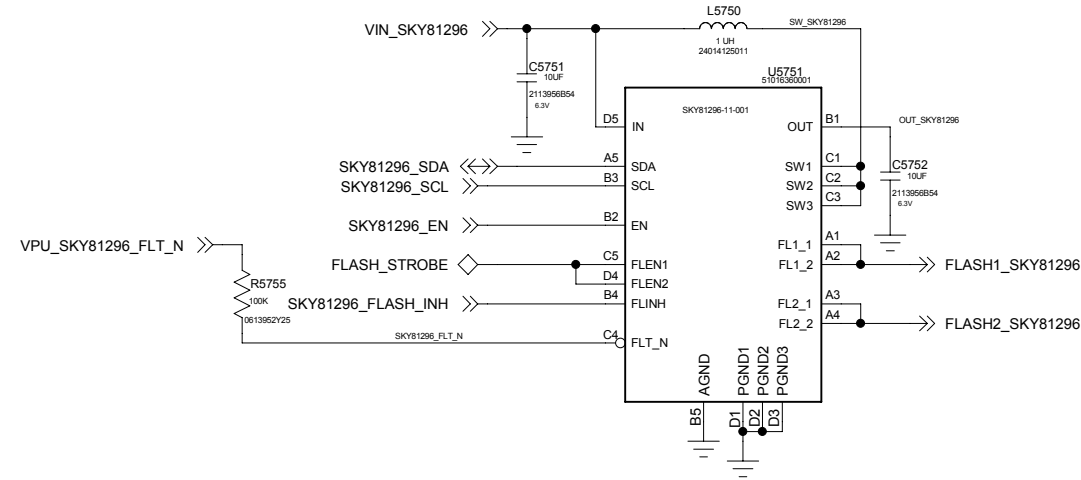


# CAM: REAR

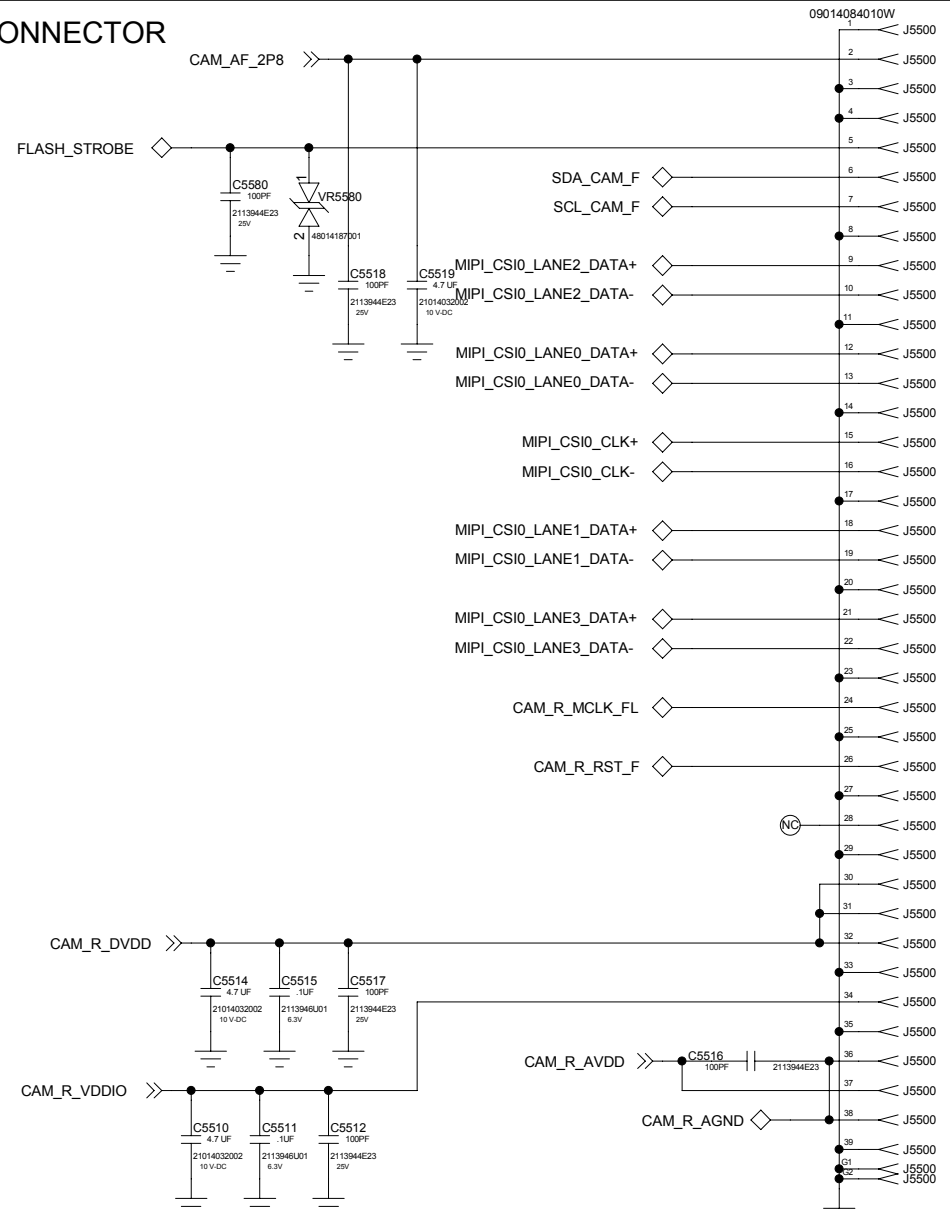
REF:5500-5599

## LED FLASH DRIVER

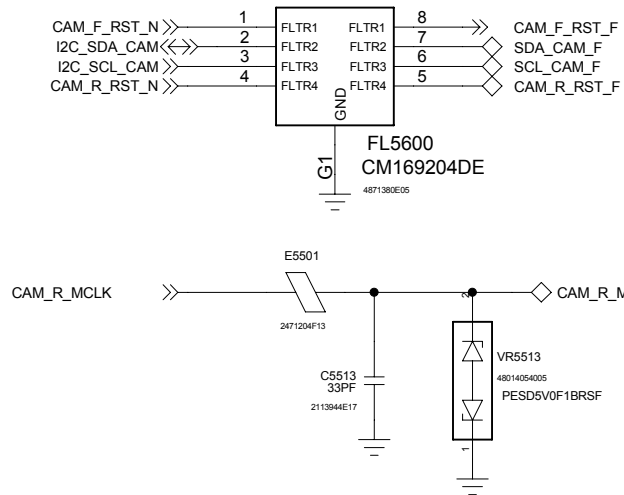
REF:5750-5799



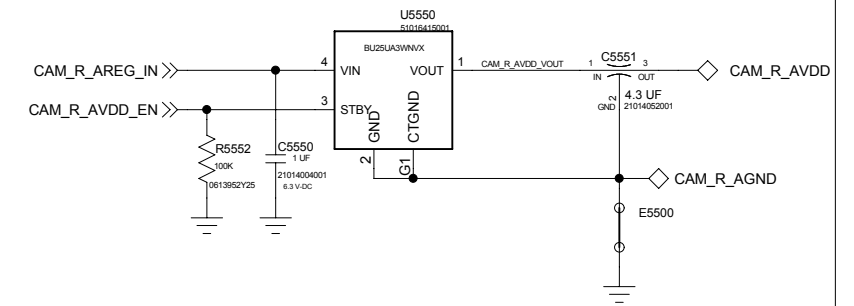
## IMAGER FLEX CONNECTOR



## EMI/ESD FILTER



## ANALOG REGULATOR



### APPROVALS

ENGINEER: MOTOROLA

LAST MODIFIED BY: MOTOROLA  
Thu Jul 30 10:00:36 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

imagers

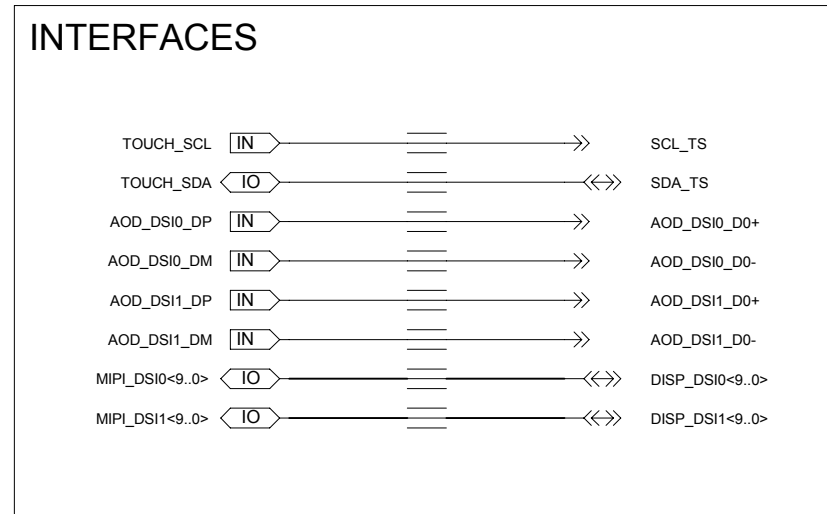
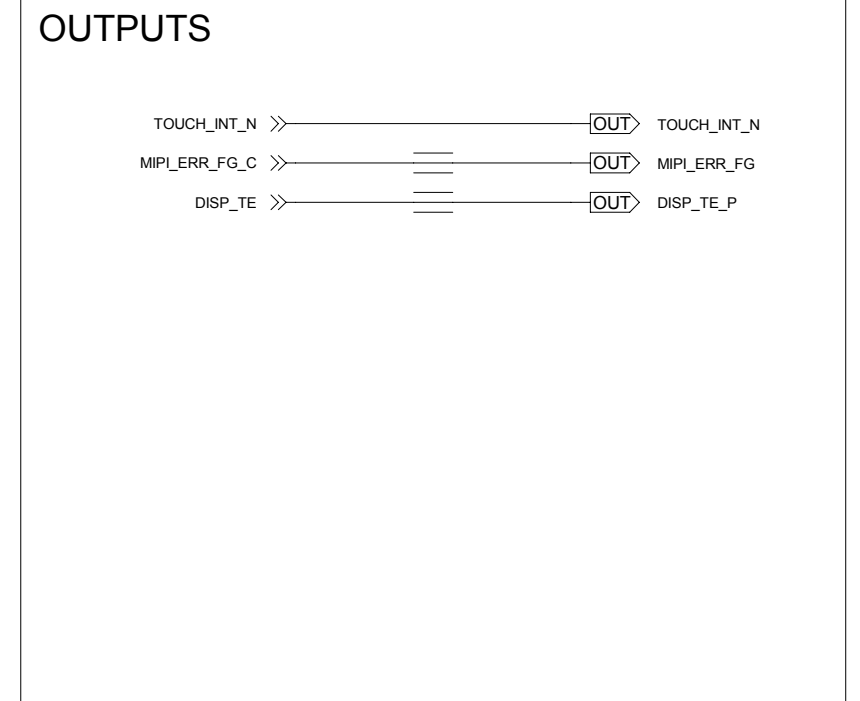
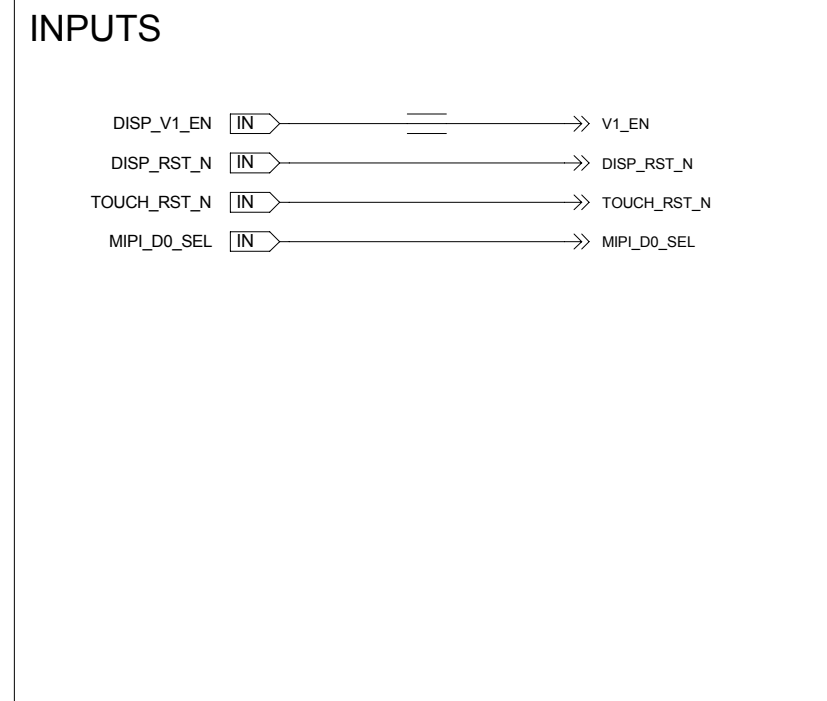
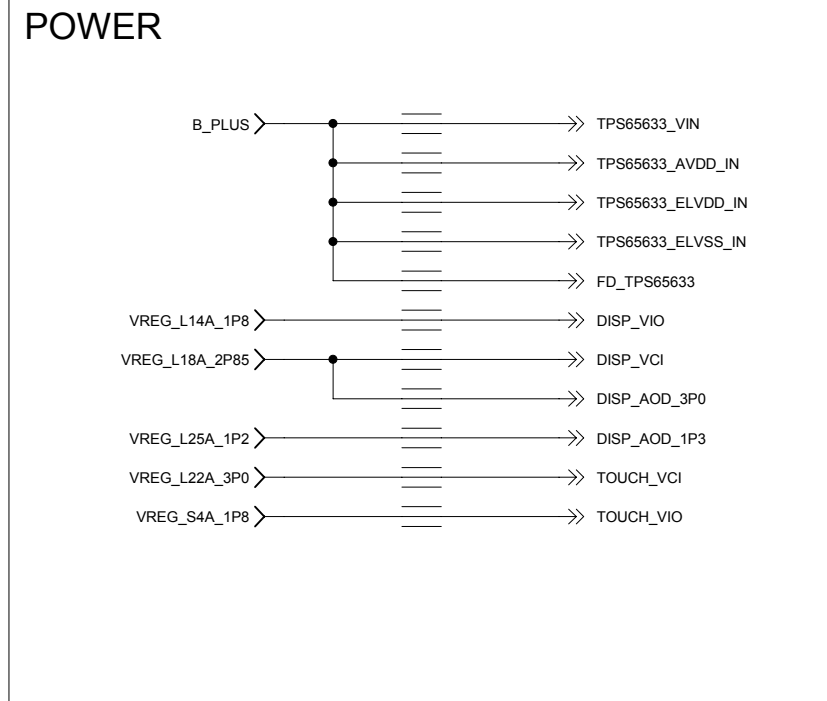
PROJECT NAME  
84016327001\_a\_released.cpm

REV  
01

CAD FILE NAME:

# DISP: PORTS

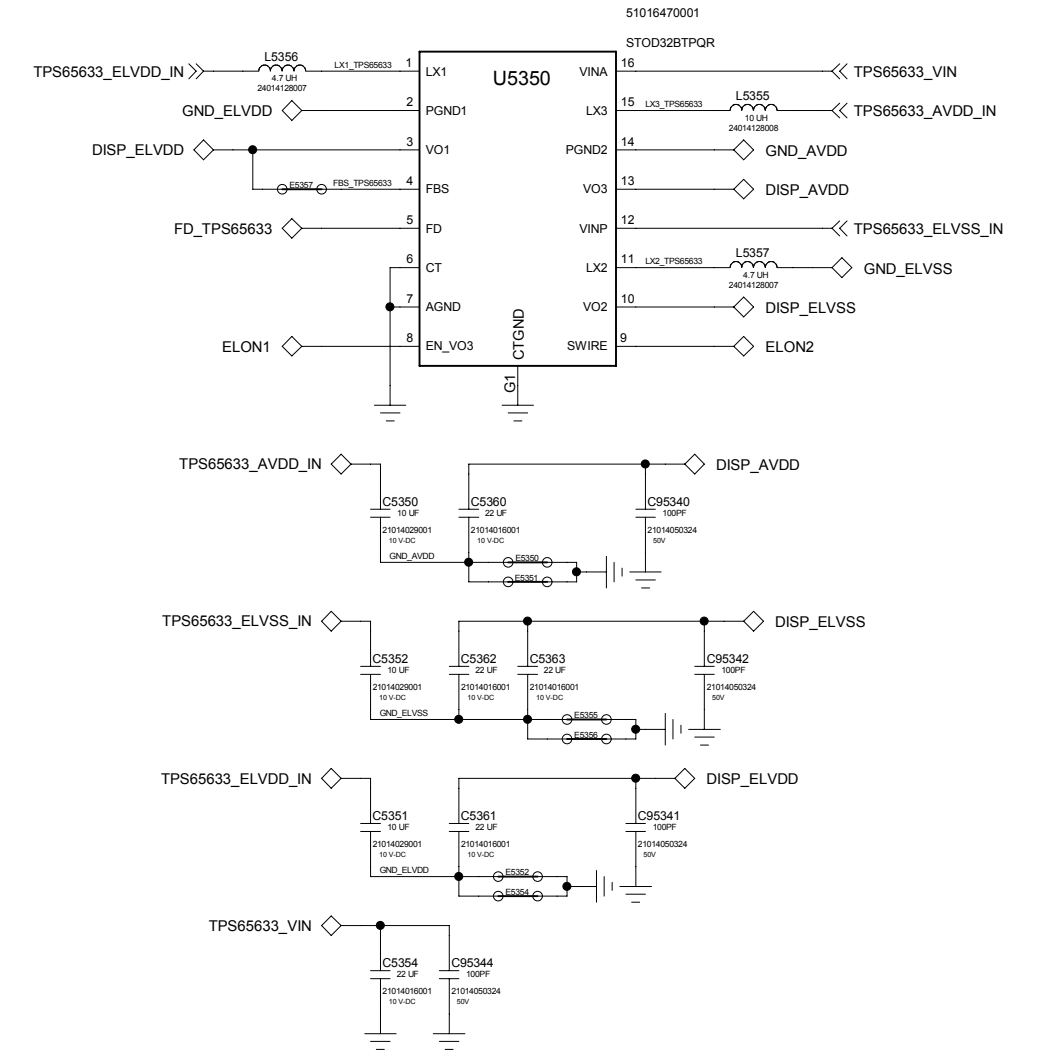
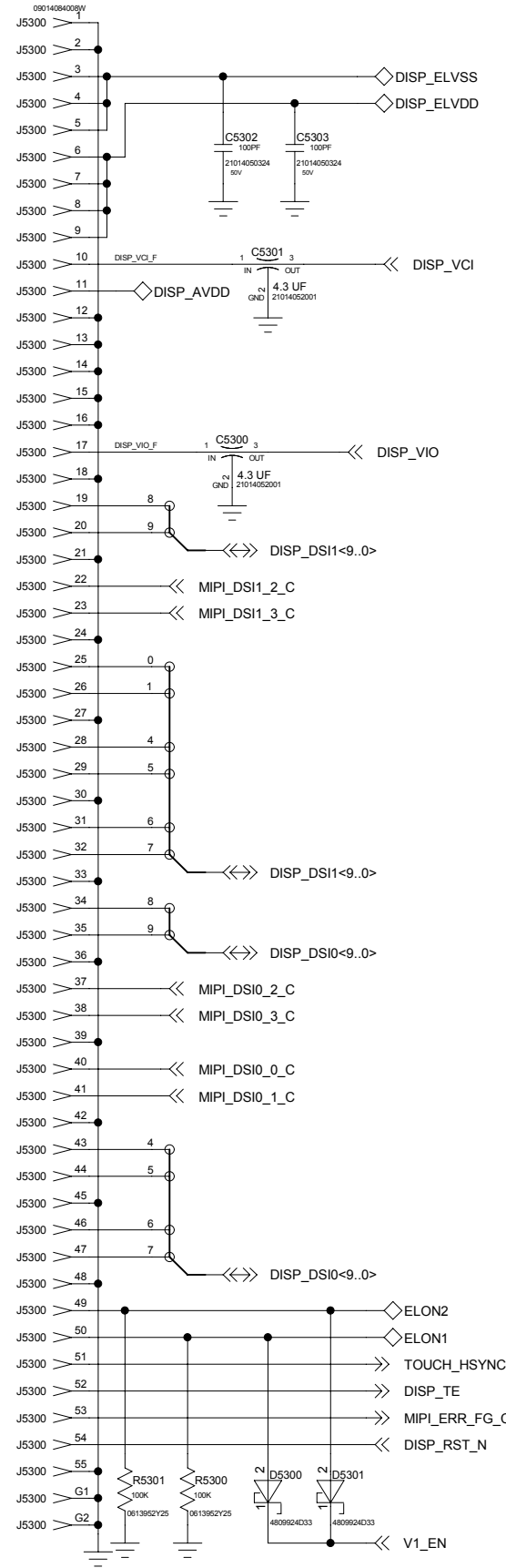
REF 5000-5499



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Fri May 15 09:10:40 2015		<b>display</b>	
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>B</b> 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 26 OF 76	

# DISP: CONNECTOR

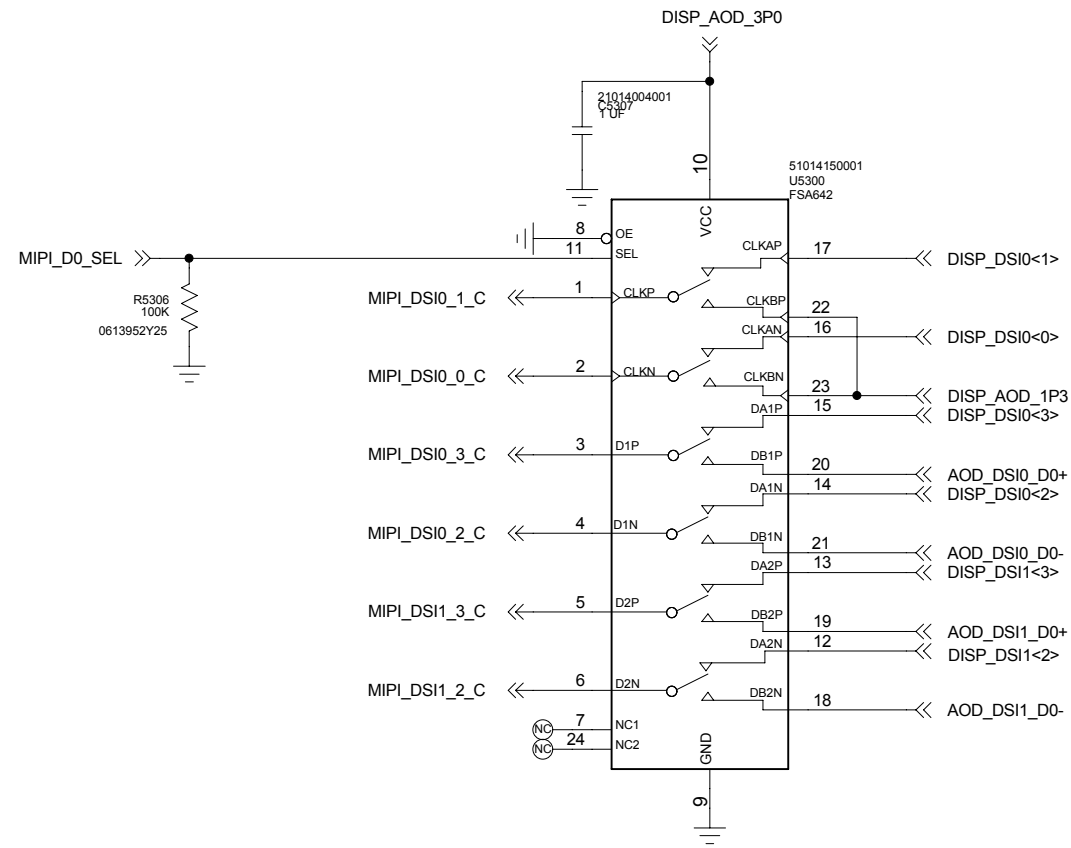
REF 5300-5349




MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Thu Jul 30 10:00:38 2015		<b>display</b>	
MOTOROLA CONFIDENTIAL RESTRICTED 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		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 27 OF 76	

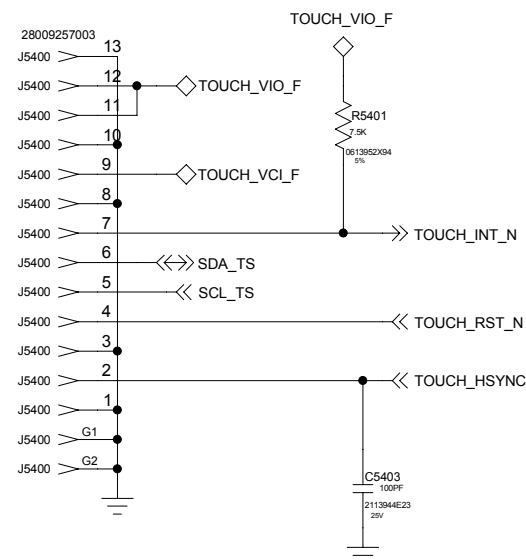
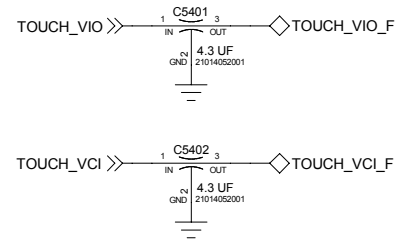
# DISP: AOD



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:37 2015		<b>display</b>	
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>B</b> 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 28 OF 76	

# TOUCH: CONNECTOR

REF 5400-5439



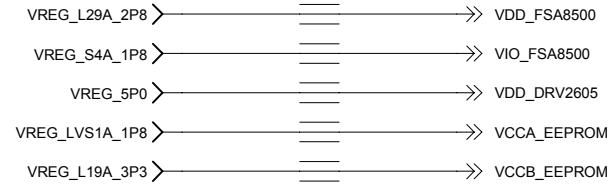
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Thu Jul 30 10:00:38 2015		<b>display</b>	
MOTOROLA CONFIDENTIAL RESTRICTED 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		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 29 OF 76	

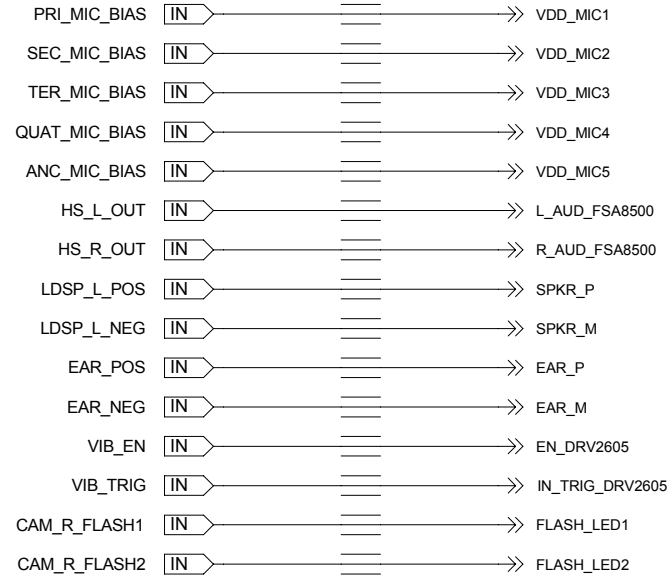
# AFE: PORTS

REF 4500-4999

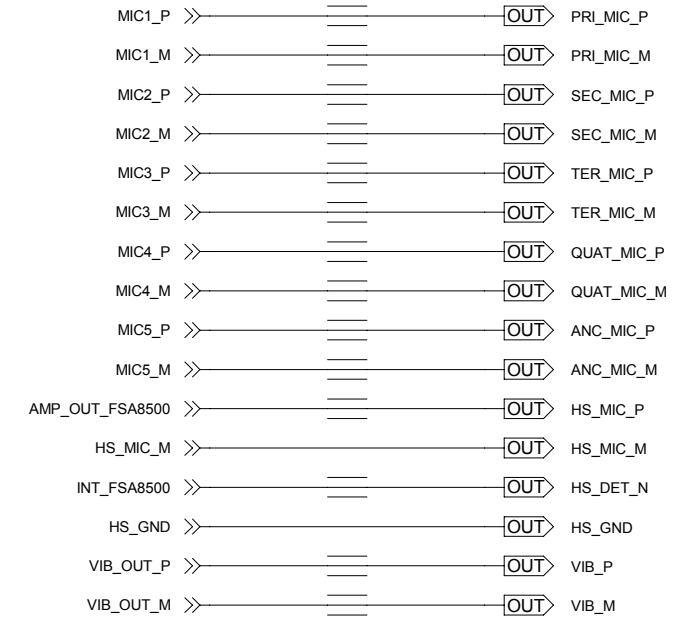
## POWER



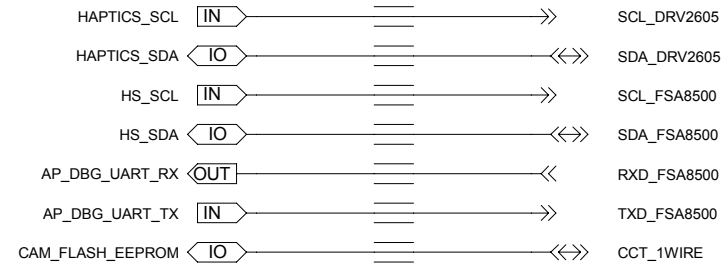
## INPUTS



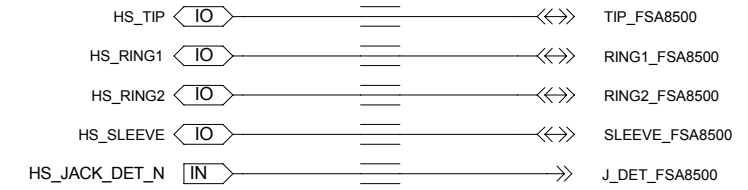
## OUTPUTS



## INTERFACES



## 3.5MM HEADSET



### APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL  
 Fri May 15 09:10:31 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

audio\_fe

PROJECT NAME  
 84016327001\_a\_released.cpm

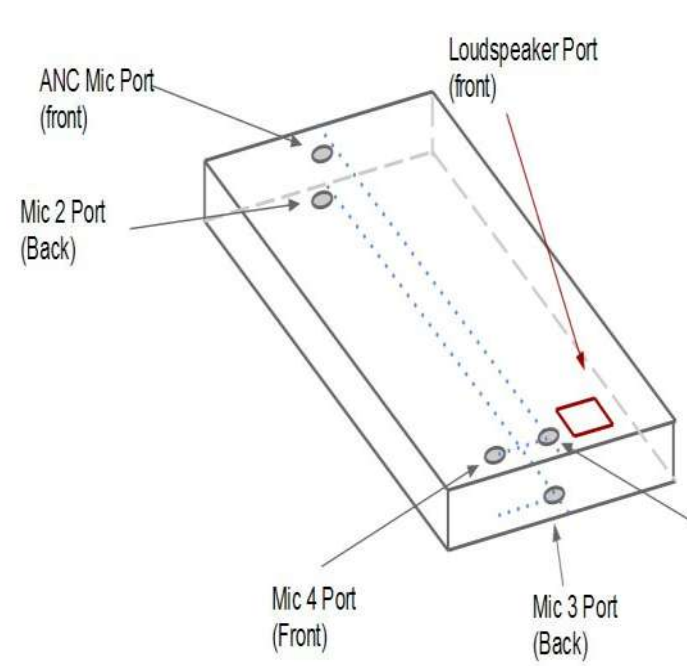
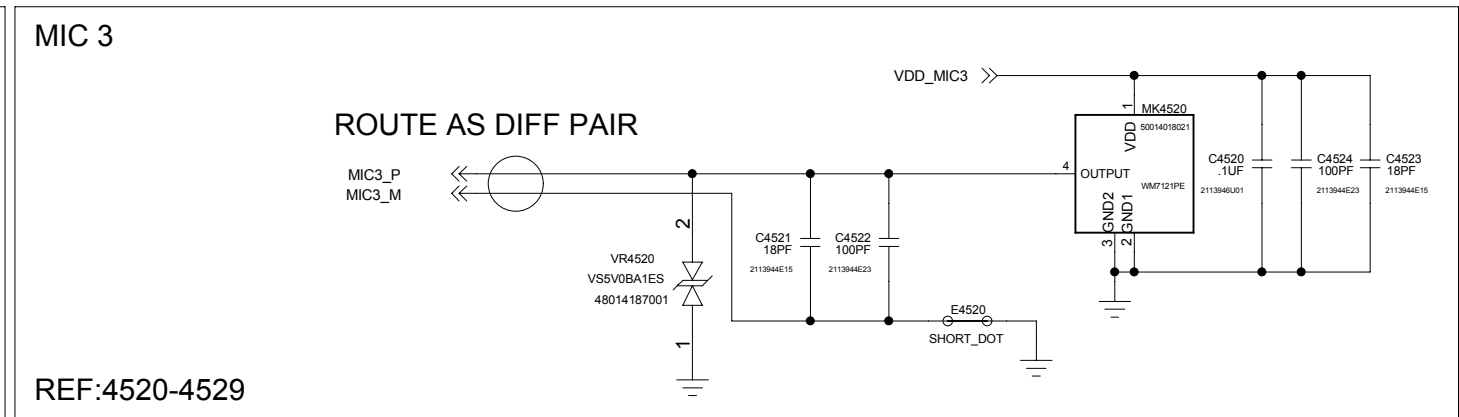
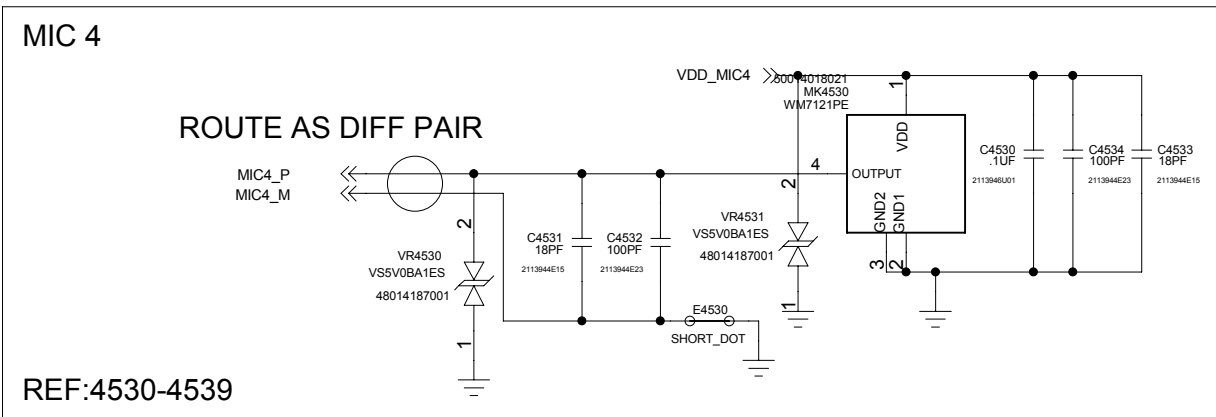
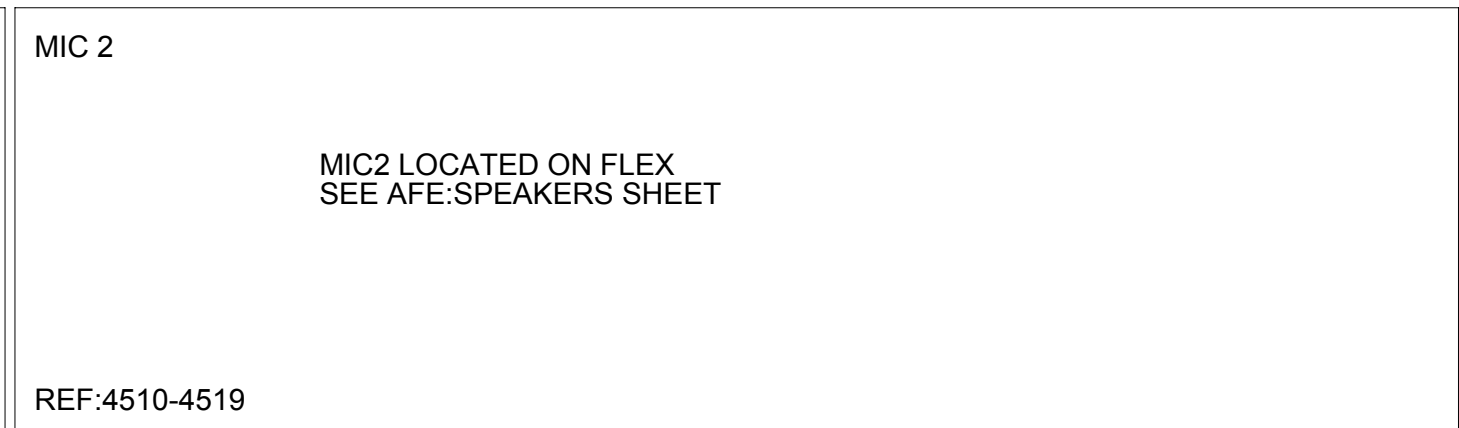
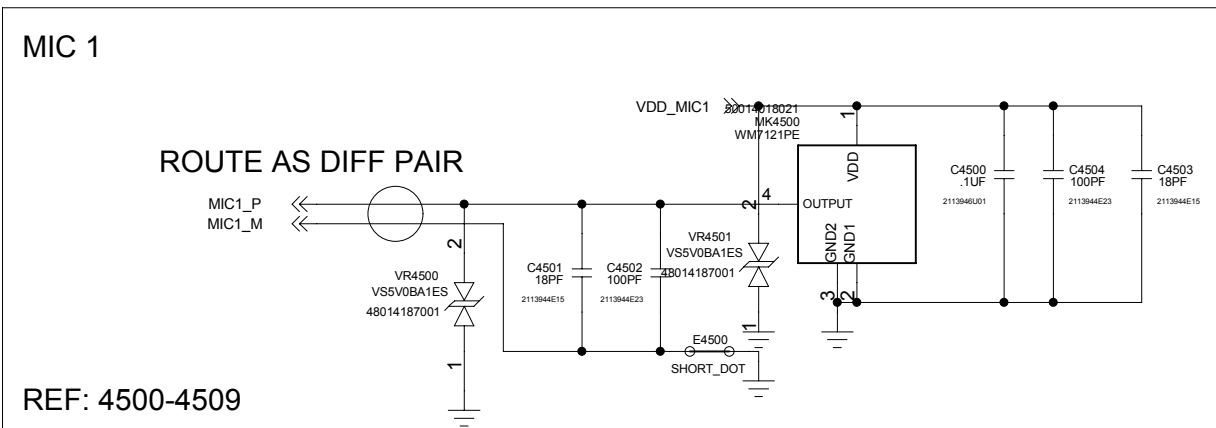
REV  
 01

CAD FILE NAME:

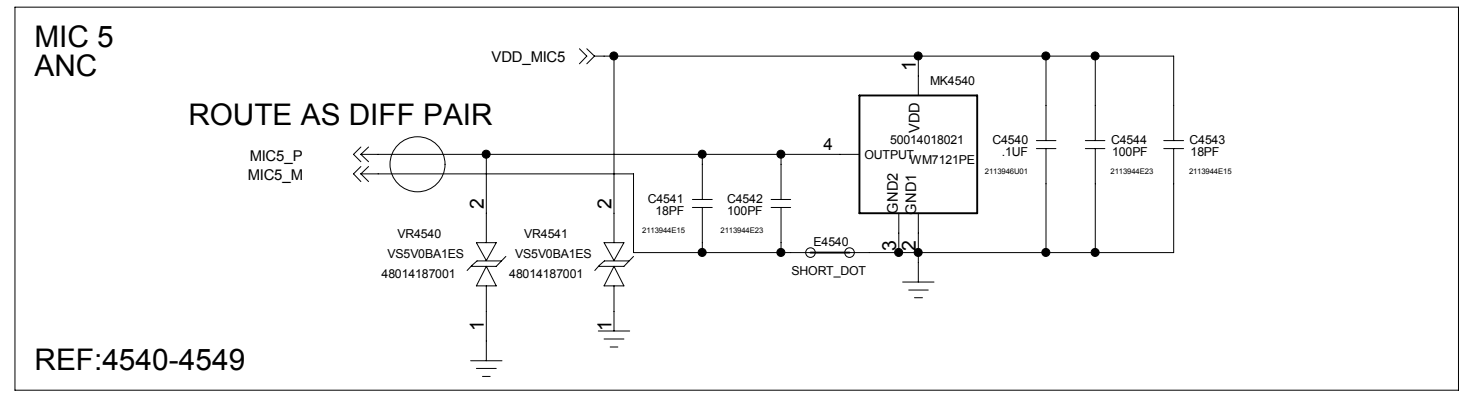
PAGE 30 OF 76

# AFE: MICS

REF: 4500-4599



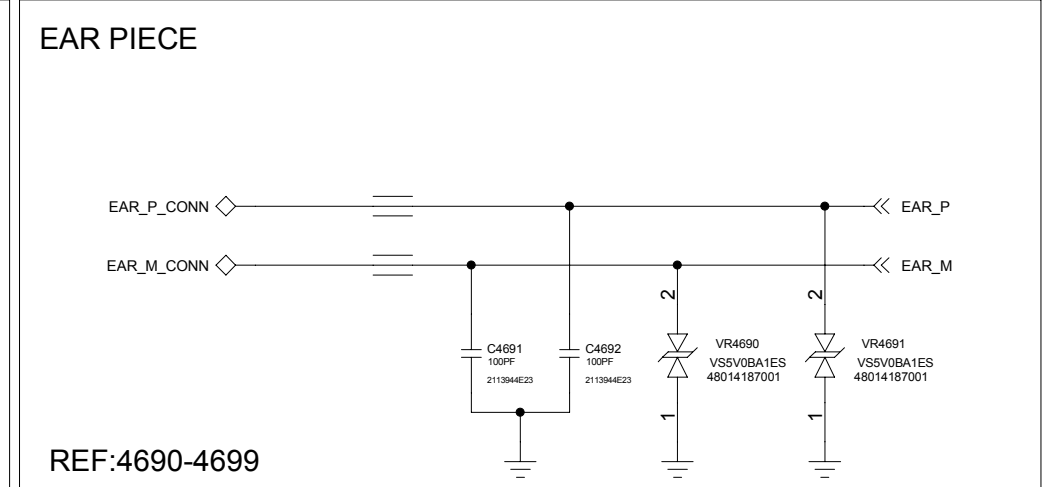
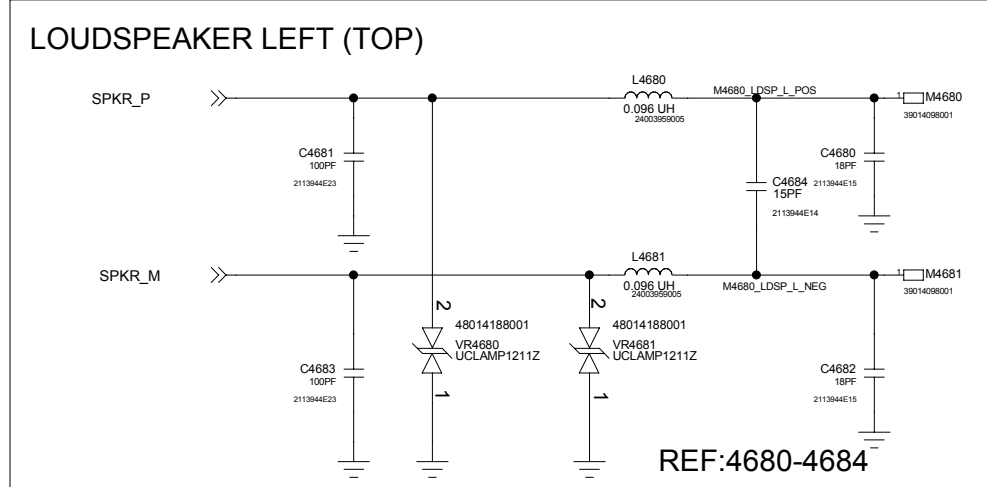
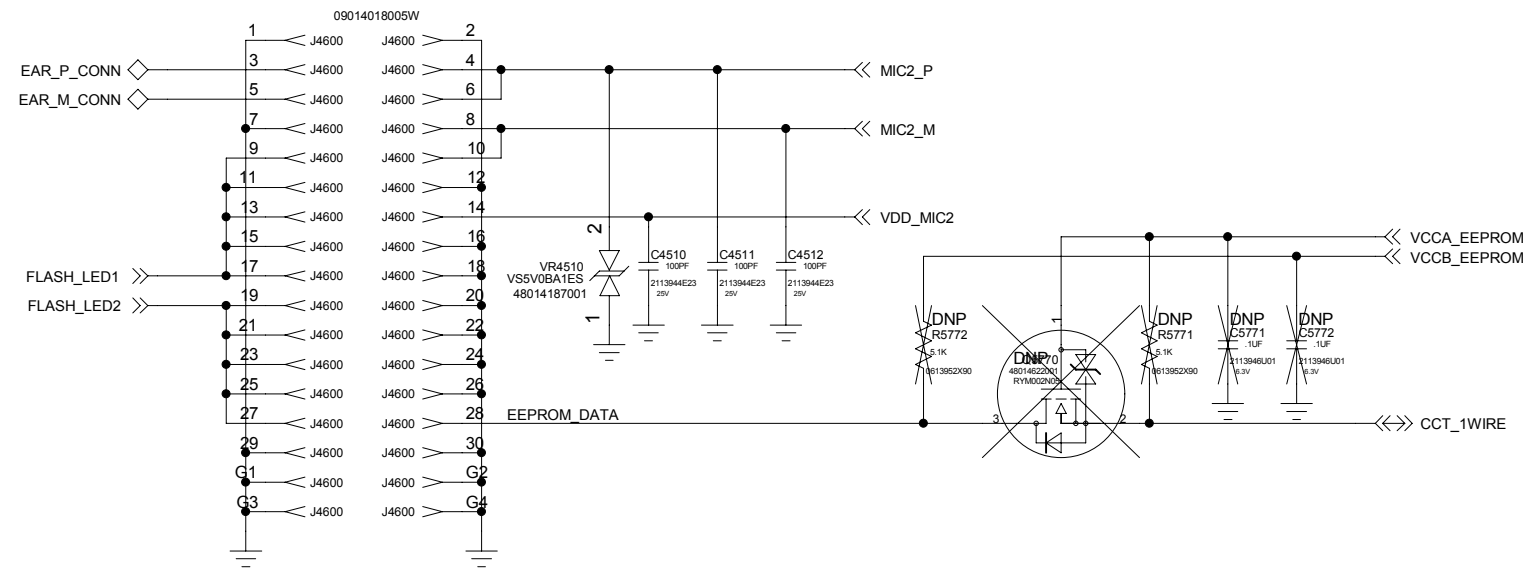
	mic1	mic2	mic3	mic4	ANC mic	HS mic
Voice Handset	X	X				
Voice Handset ANC	X	X			X	
Voice Speakerphone		X				
Camcorder		X	X			
AoV	X		X	X		
AoV Loudspeaker		X				
AoV Headset						X



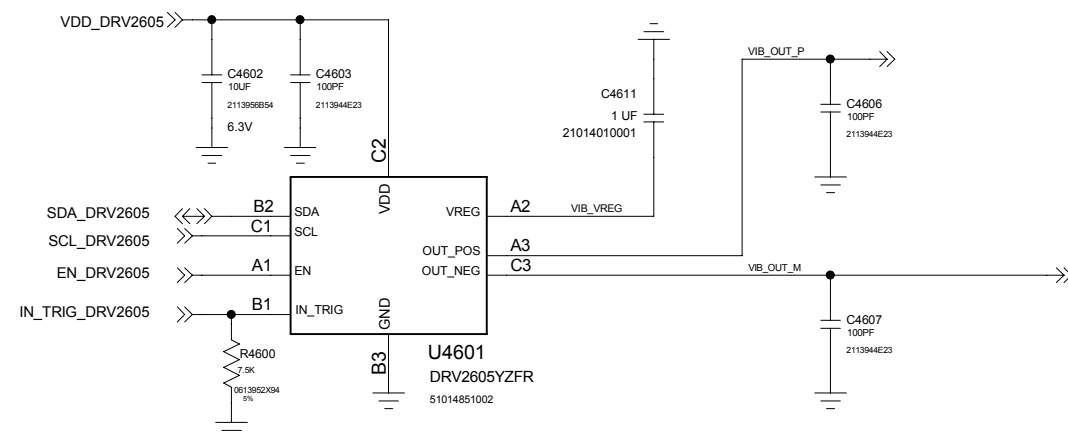
APPROVALS			
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:40 2015		<b>audio_fe</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 31 OF 76

# AFE: SPEAKERS

REF: 4600-4699



## ROTARY VIBRATOR REF DES 4600-4619

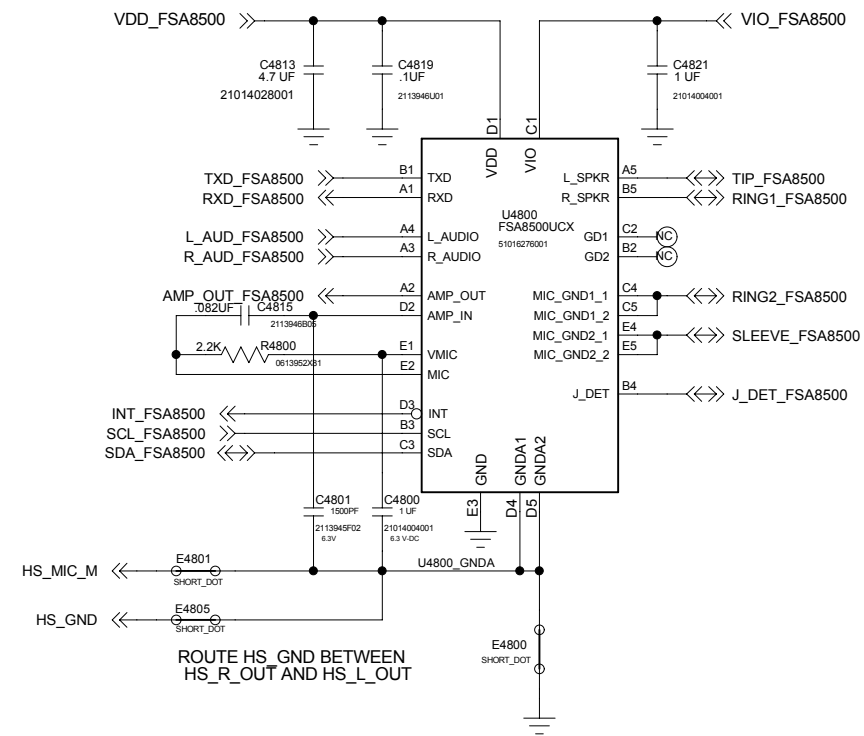


<b>APPROVALS</b> ENGINEER: MOTOROLA LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:41 2015		 <b>MOTOROLA</b> MOBILE DEVICES BLOCK TITLE: <h2 style="margin: 0;">audio_fe</h2>	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL 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>84016327001_a_released.cpm</b>	REV <b>01</b>
		CAD FILE NAME: PAGE 32 OF 76	



# AFE: 3.5MM HEADSET

## AUDIO JACK DETECTION REF:4800-4849

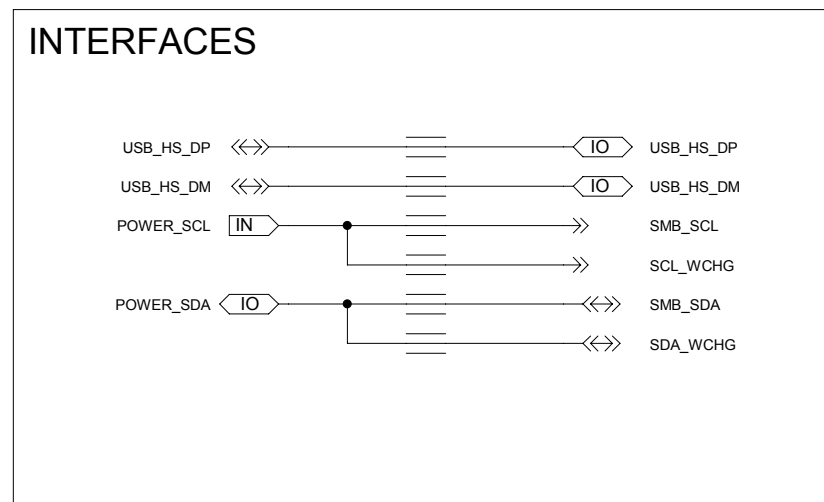
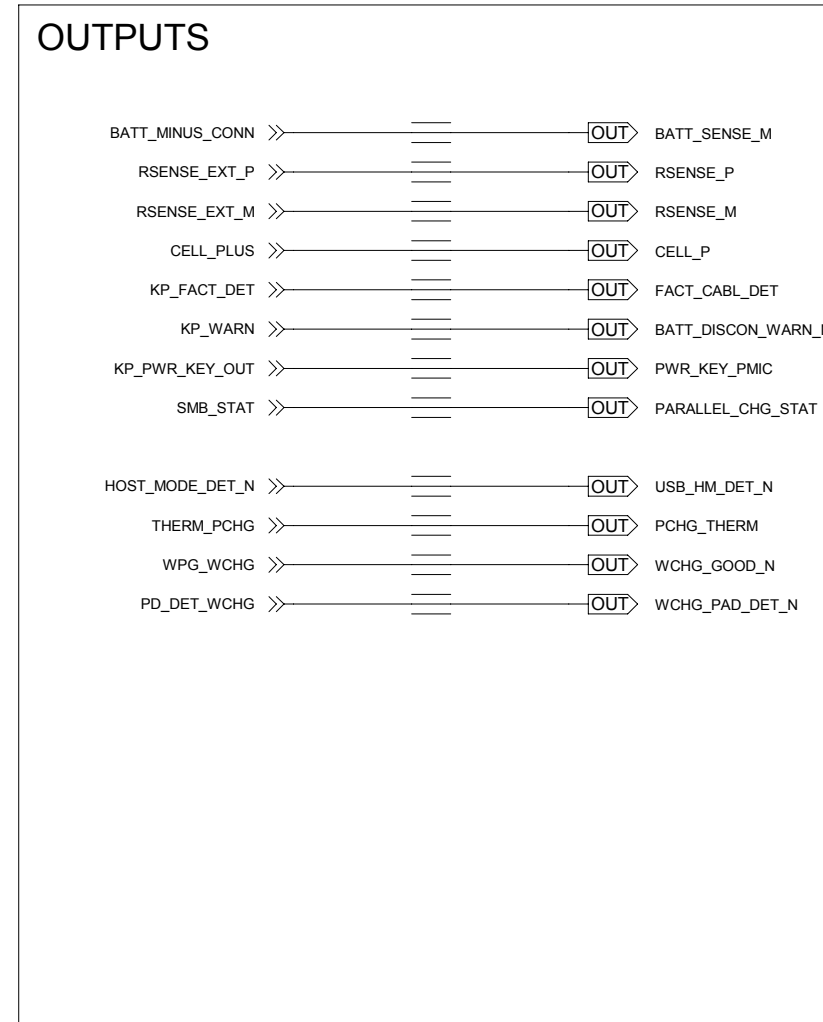
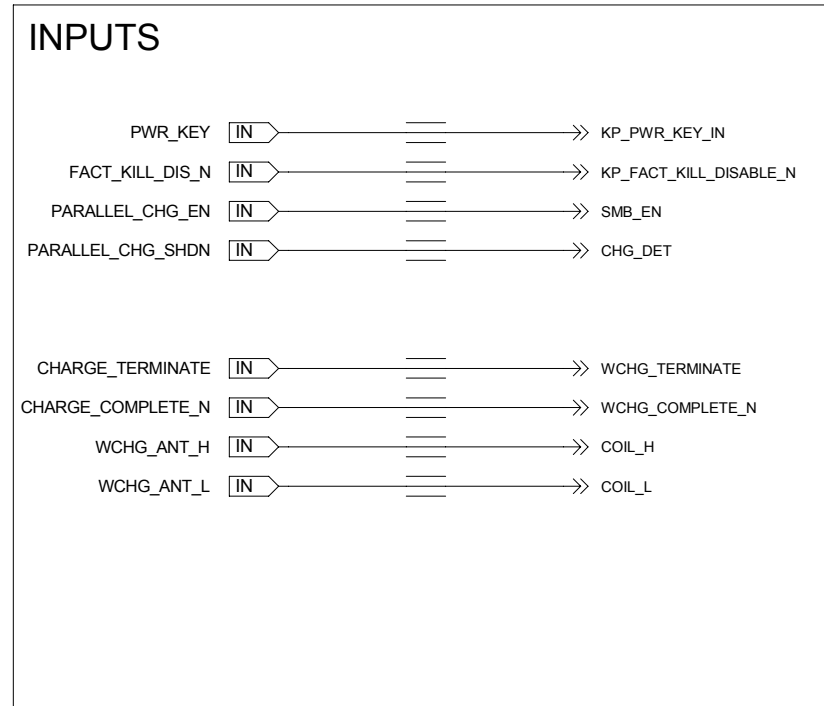
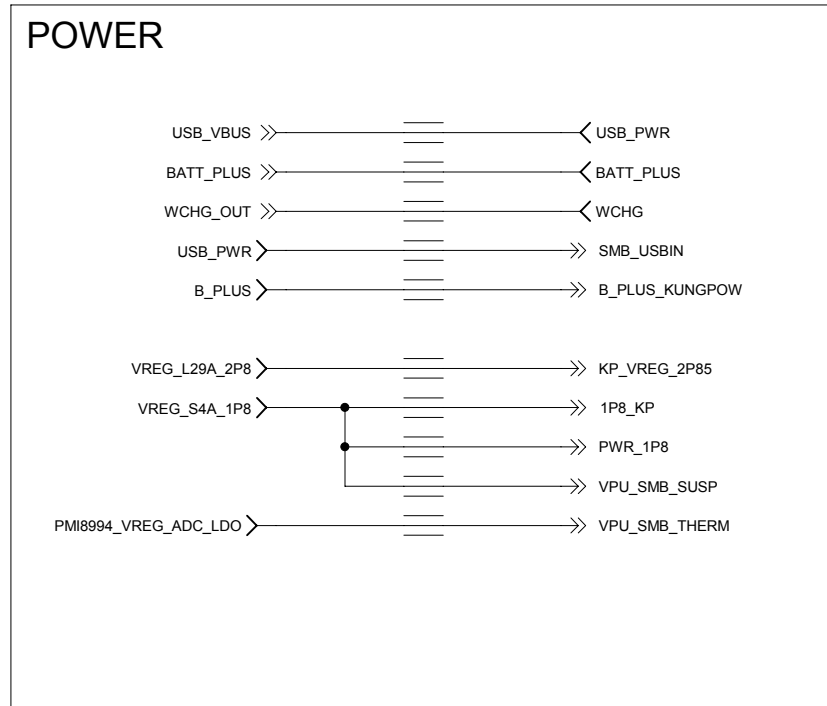


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS			
ENGINEER: MATT MOTTIER		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Thu Jul 30 10:00:39 2015		<b>audio_fe</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 33 OF 76

# PWR: PORTS

REF 500-799

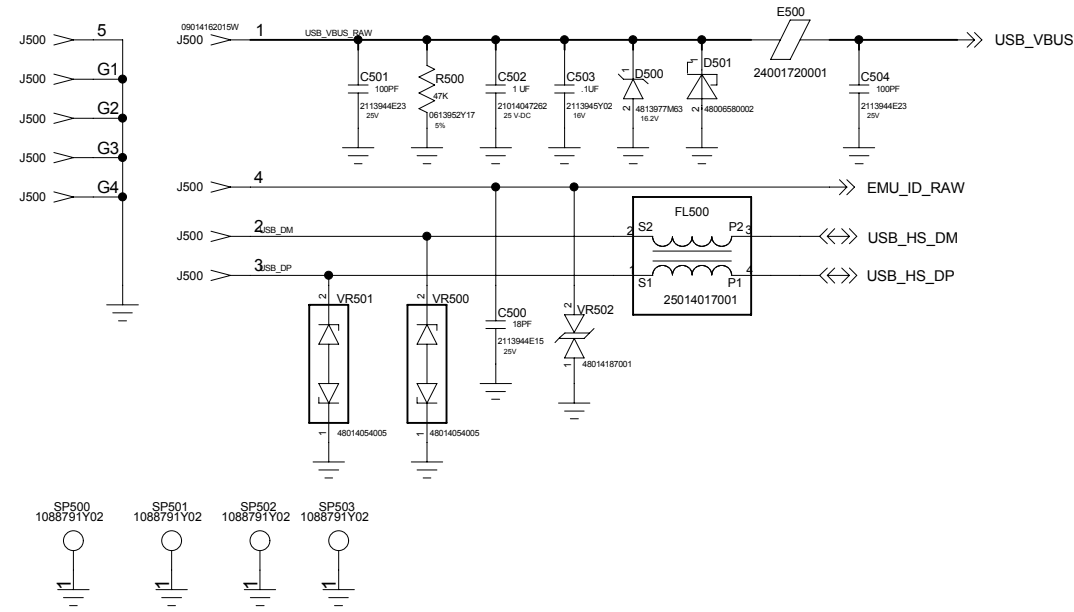


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Fri May 15 09:10:25 2015		<b>power</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 34 OF 76

# PWR: USB2 / BATT

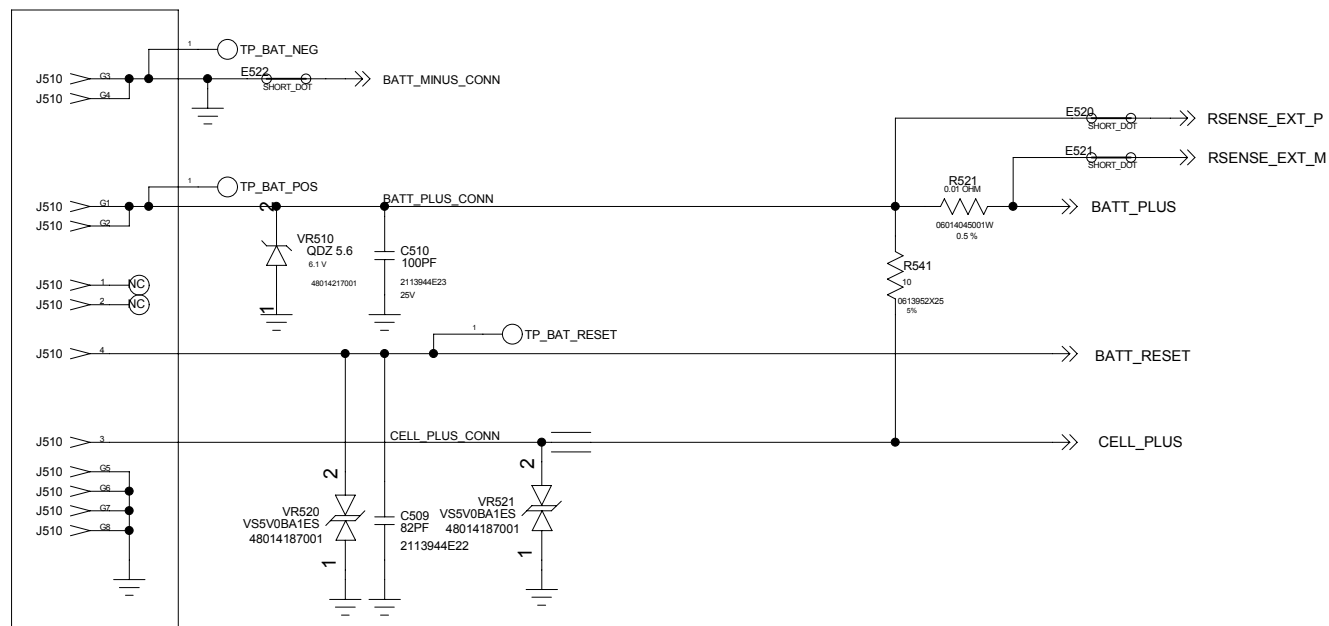
REF: 500-530

## MICRO USB

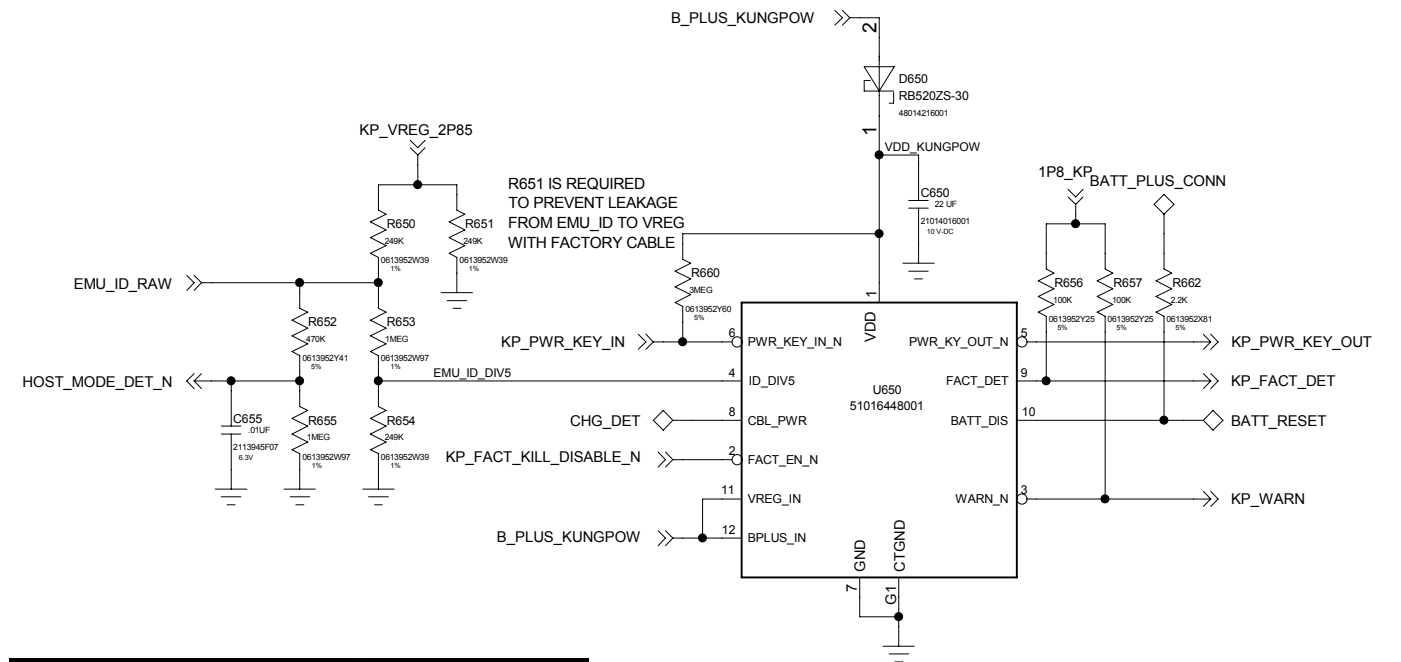


## BATTERY BLOCK

CONNECTOR P/N: 09014099001W



## KUNG KOW BATTERY DISCONNECT

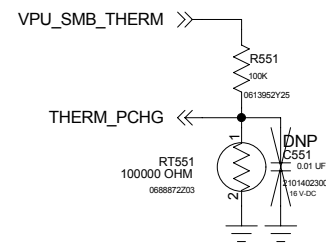
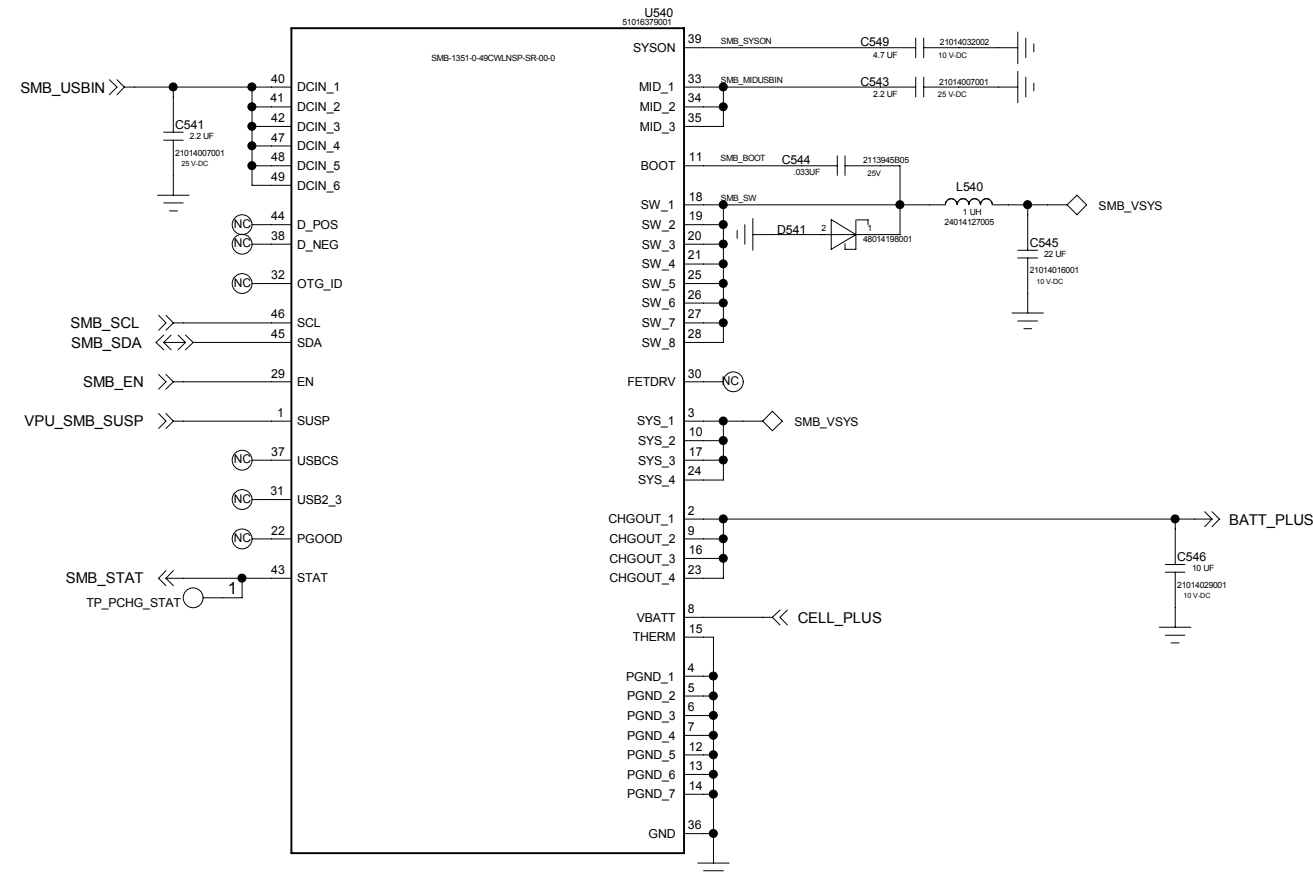



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: RICH NG		BLOCK TITLE:	
LAST MODIFIED BY: UDI ELRAN Thu Jul 30 10:00:42 2015		<b>power</b>	
MOTOROLA CONFIDENTIAL RESTRICTED 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		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 35 OF 76	

# PWR: EXT CHG

REF: 540-559

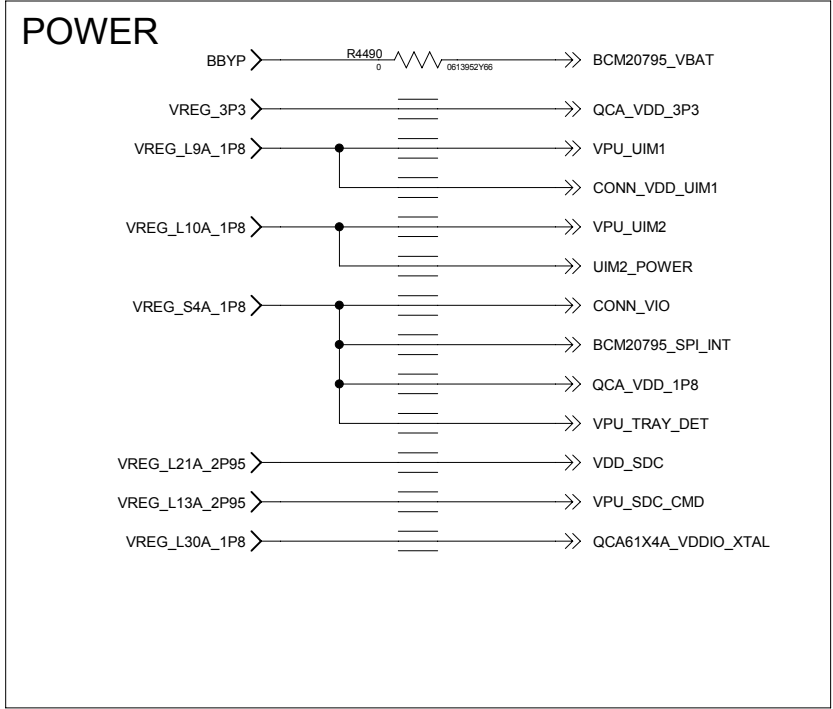


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: R. NG Thu Jul 30 10:00:43 2015		<b>power</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 36 OF 76	



# CONN: POWER

REF 4490-4499



APPROVALS			
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Thu Jul 30 10:00:48 2015		<b>connectivity</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		B PROJECT NAME 84016327001_a_released.cpm	REV 01
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			CAD FILE NAME: <span style="float: right;">PAGE 38 OF 76</span>

# 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\_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  
 NFC\_ANT\_P1 [IN] → BCM\_NFC\_ANT\_P1  
 NFC\_ANT\_P2 [IN] → BCM\_NFC\_ANT\_P2

## 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  
 Tue Mar 24 11:21:51 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

**connectivity**

PROJECT NAME  
 84016327001\_a\_released.cpm

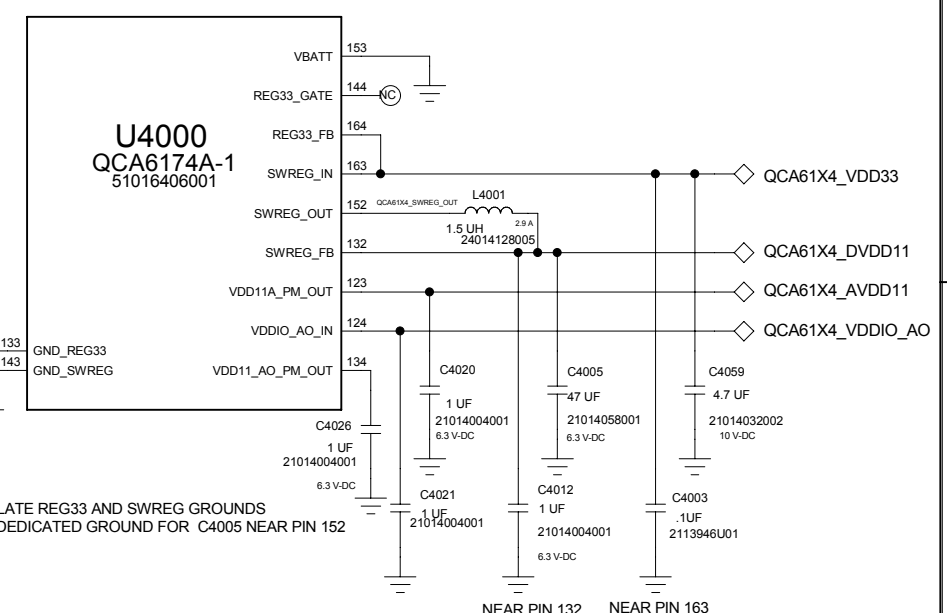
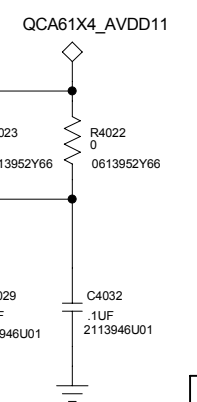
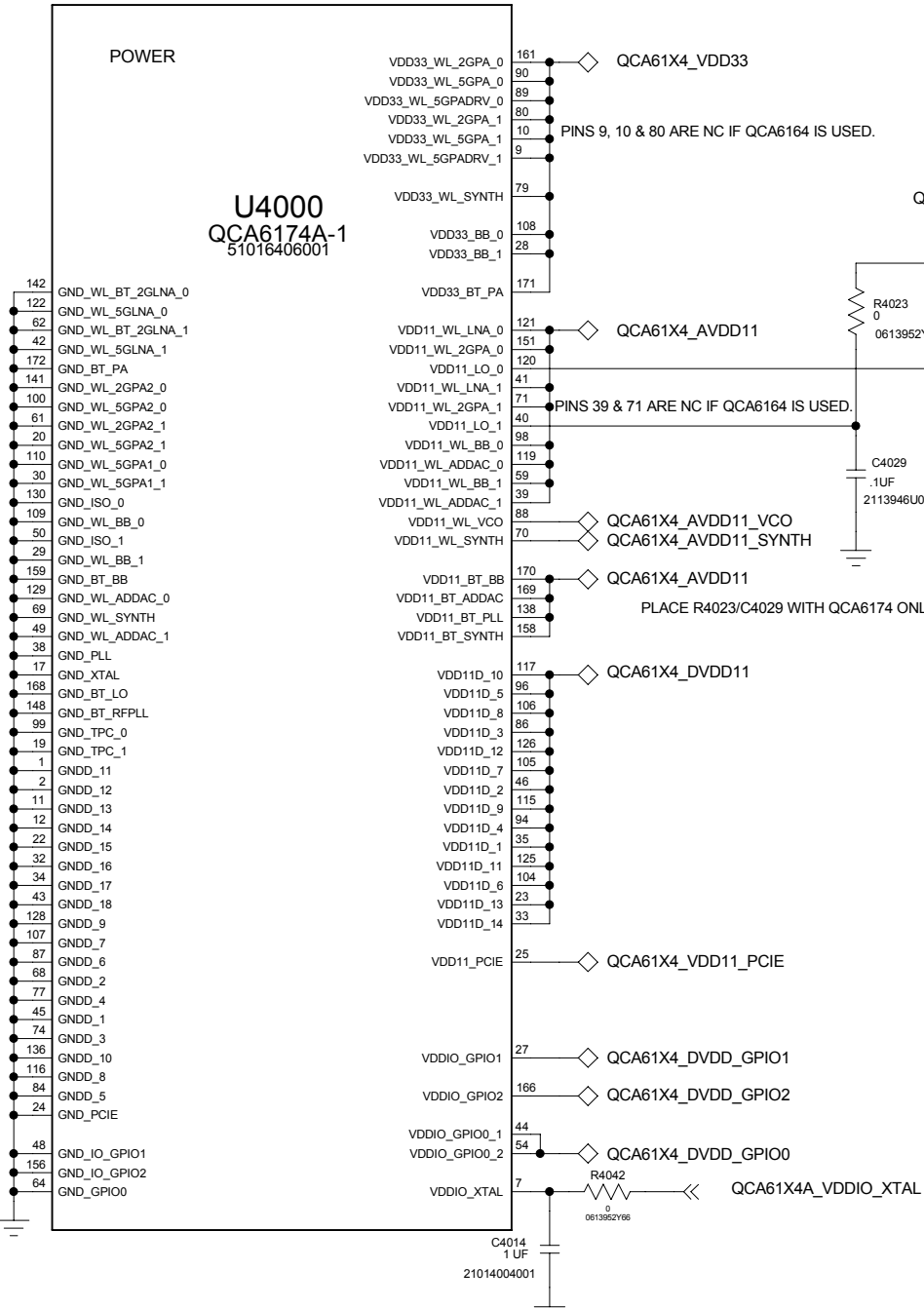
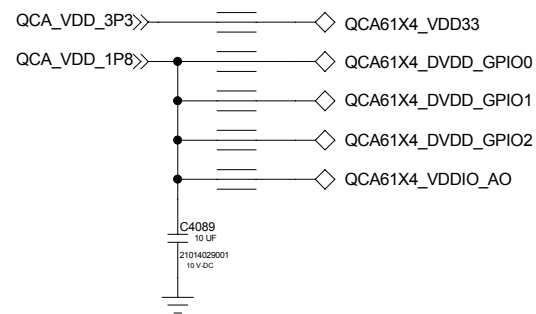
REV  
 01

CAD FILE NAME:

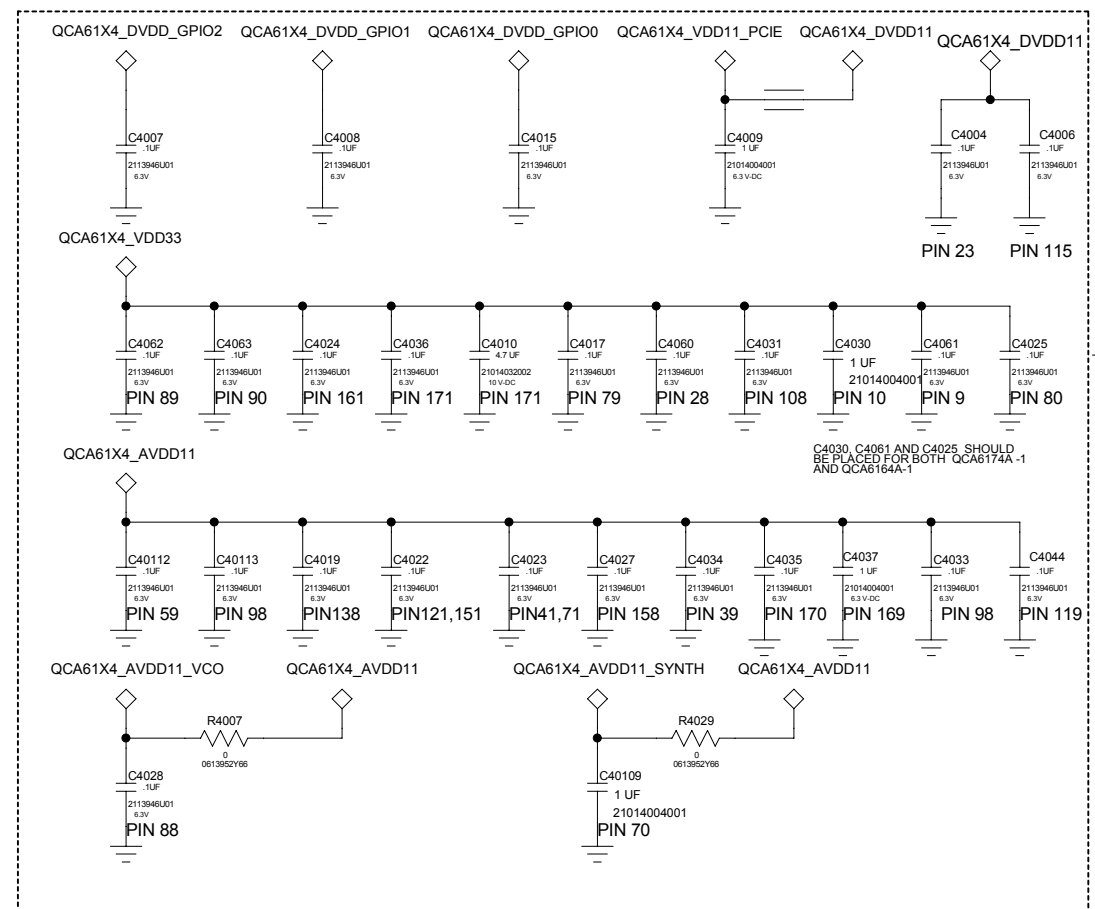
PAGE 39 OF 76

# CONN: QCA61X4A POWER

## REF 4000-4099



NOTE: ISOLATE REG33 AND SWREG GROUNDS  
PROVIDE DEDICATED GROUND FOR C4005 NEAR PIN 152



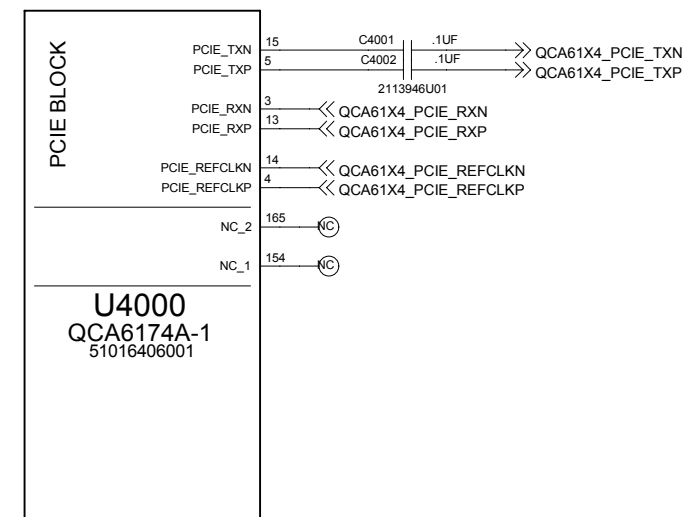
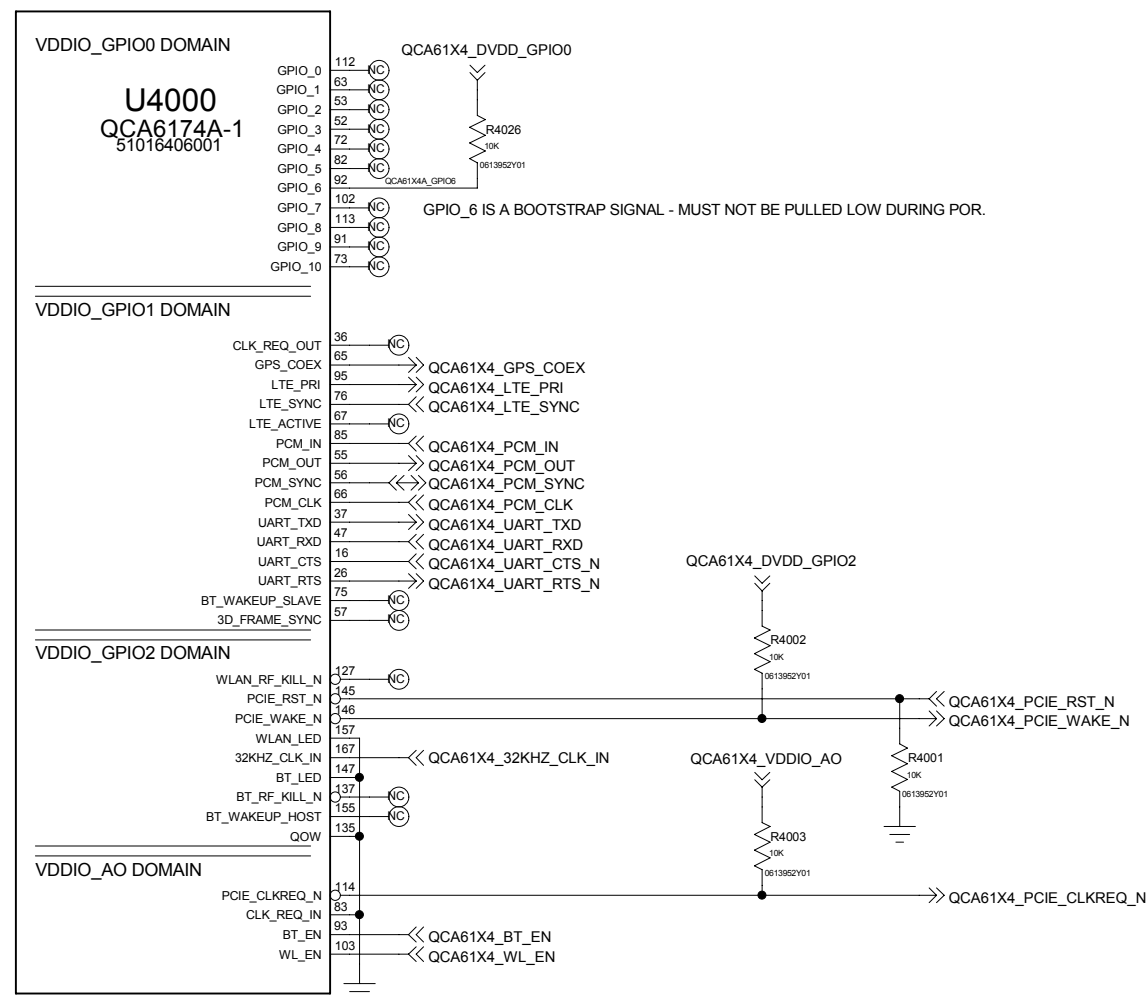
BASED ON 80-WL420-42 REV. D

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED		 <b>MOTOROLA</b> MOBILE DEVICES	
APPROVALS		BLOCK TITLE:	
ENGINEER: FROEHLING		<b>connectivity</b>	
LAST MODIFIED BY: FROEHLING Thu Jul 30 10:00:45 2015		PROJECT NAME	REV
MOTOROLA CONFIDENTIAL RESTRICTED		B 84016327001_a_released.cpm	01
<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>		CAD FILE NAME:	
		PAGE 40 OF 76	



# CONN: QCA61X4A HOST I/F

REF: 4000-4099



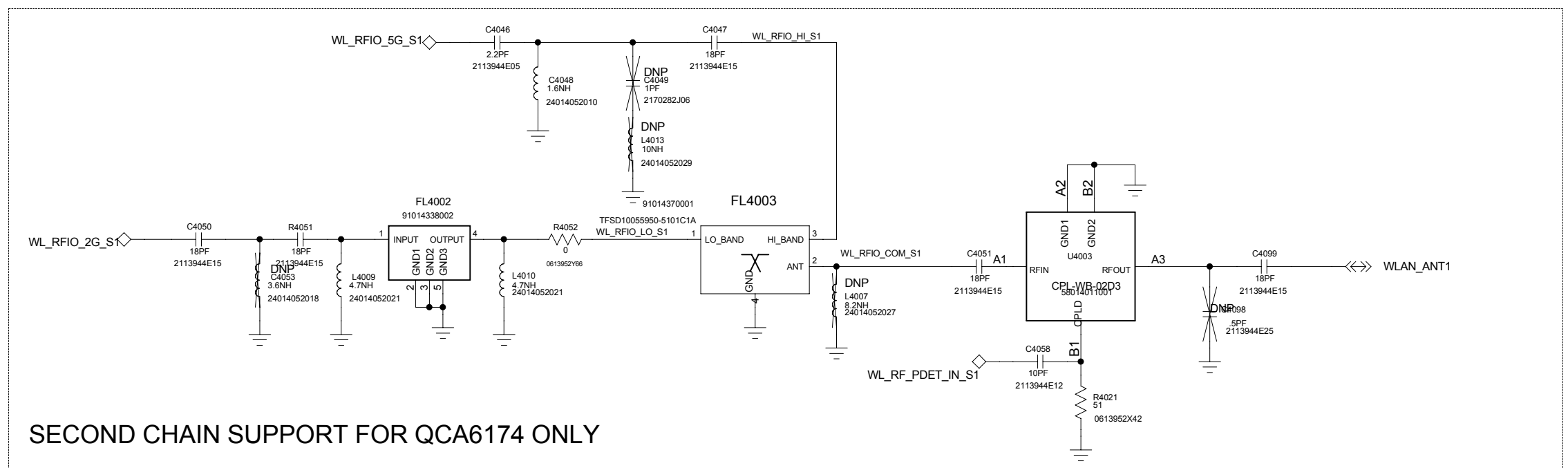
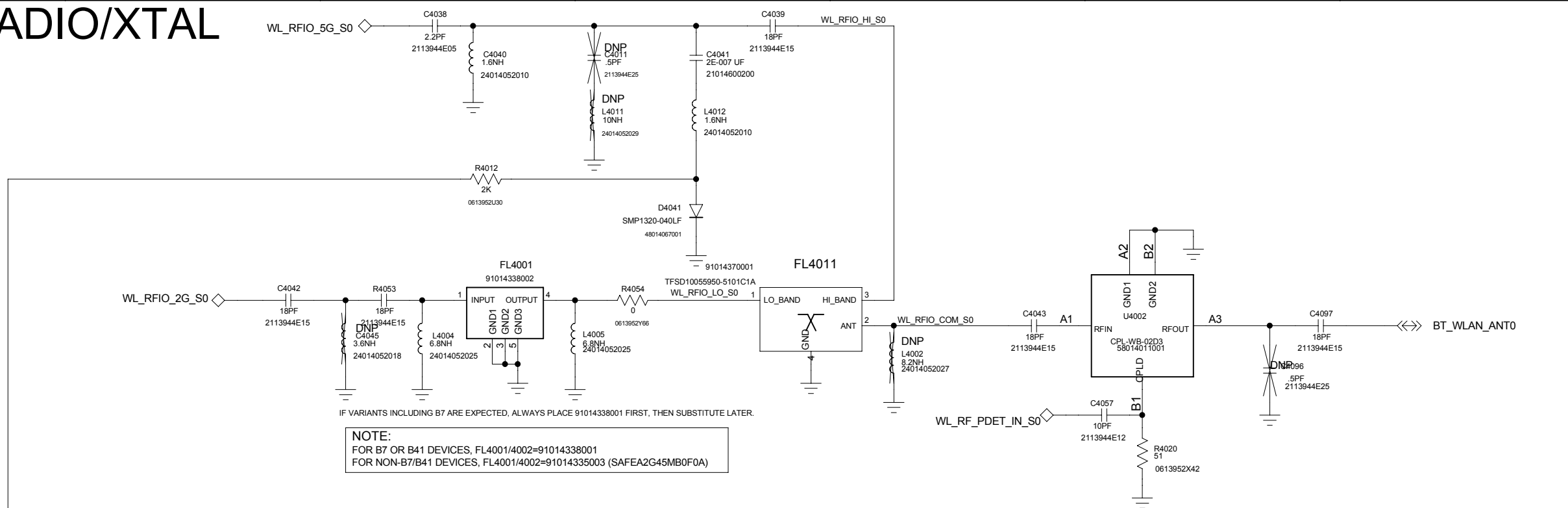
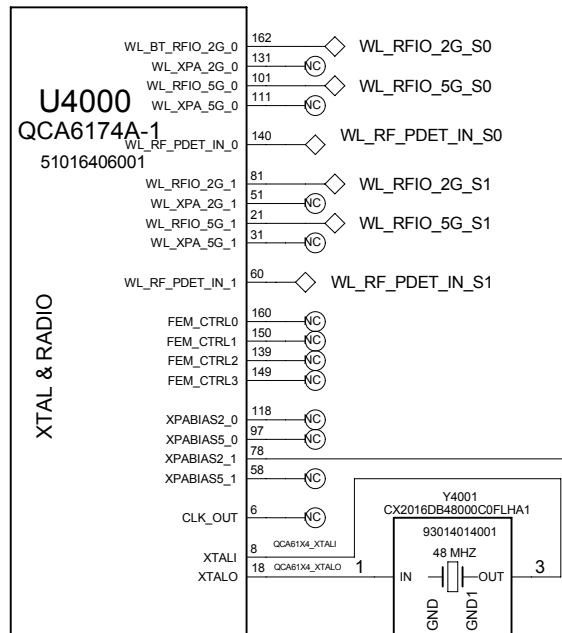
BASED ON 80-WL420-42 REV. D

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Thu Jul 30 10:00:45 2015		<b>connectivity</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<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>		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 41 OF 76	

# CONN: QCA61X4A RADIO/XTAL

## REF 4000-4099



BASED ON 80-WL420-42 REV. D

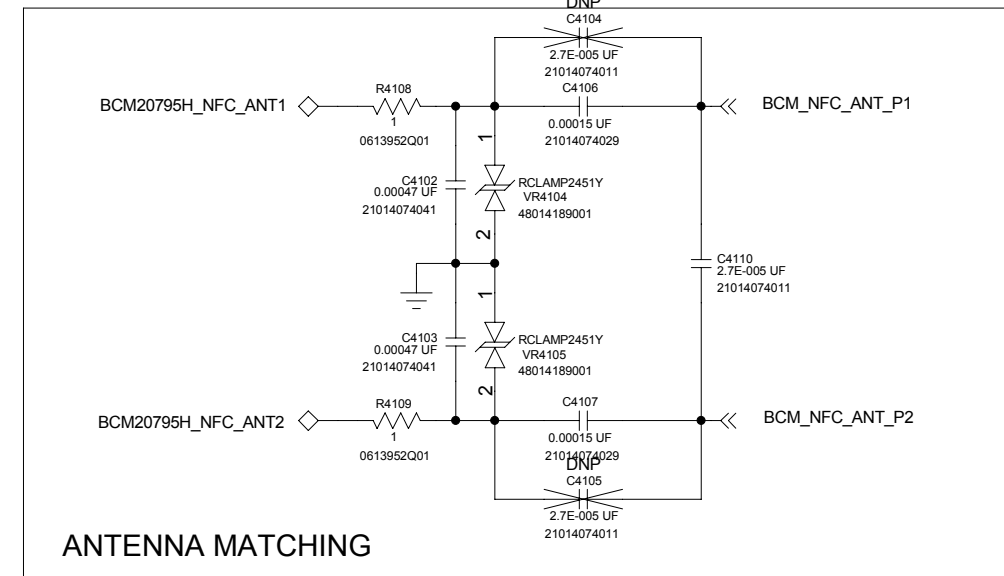
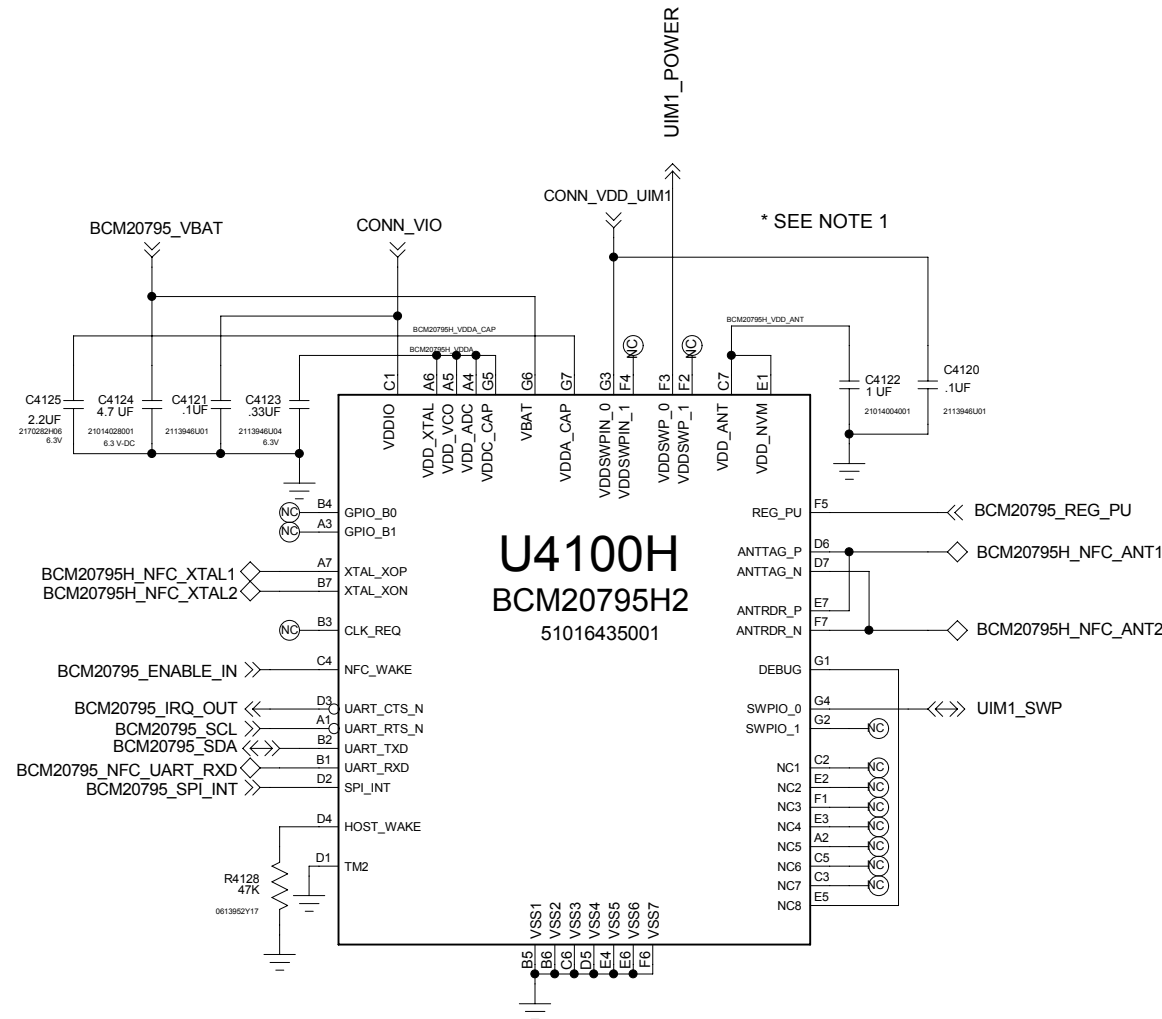
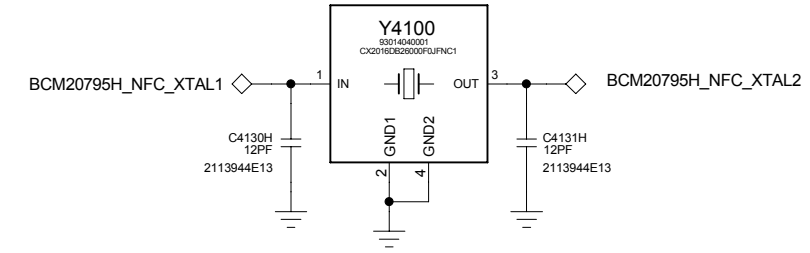
APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Thu Jul 30 10:00:46 2015		<b>connectivity</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 42 OF 76	

# CONN: BCM20795H NFC

REF: 4100-4199

I2C ADDR: 0X77 (BOOT DEFAULT WHEN PIN B1 IS PULLED TO GROUND)  
OR  
I2C ADDR: 0X76 (BOOT DEFAULT WHEN PIN B1 IS FLOATED/PULLED HIGH)


\* SEE NOTE 3



NOTES:

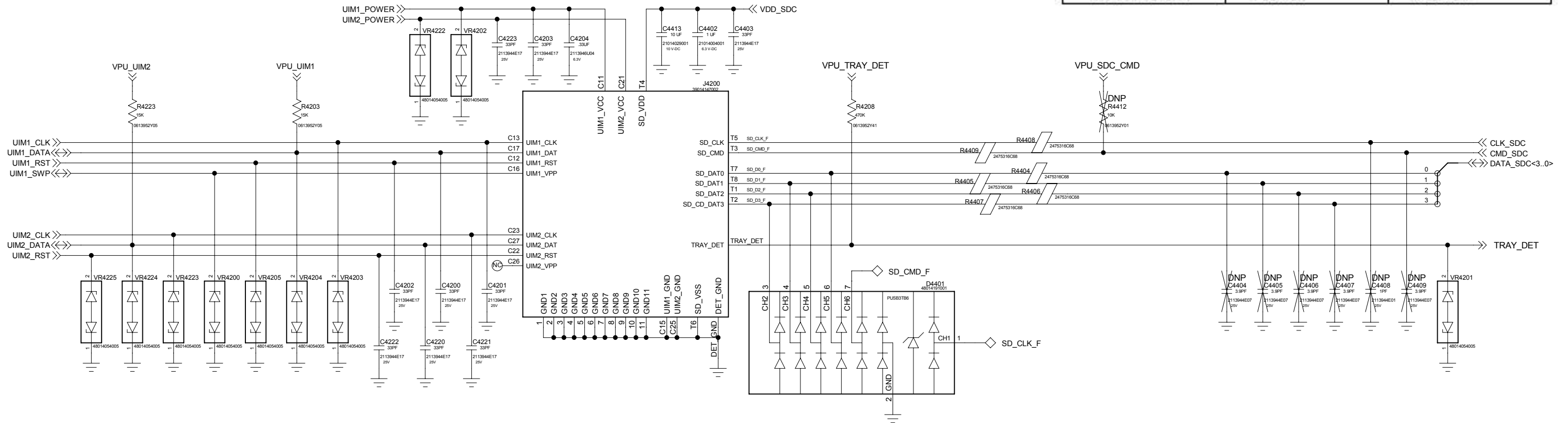
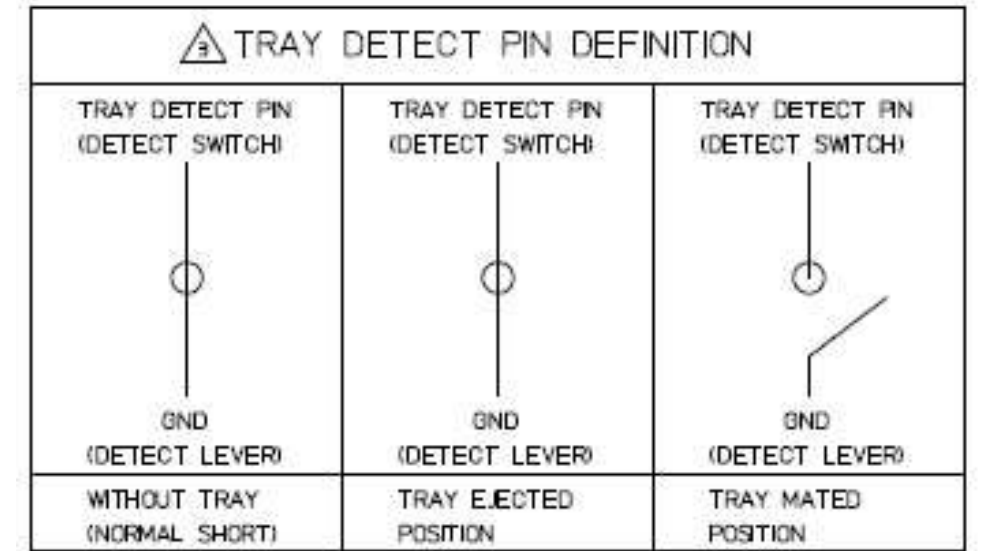
- PER BROADCOM RECOMMENDATION, CAPACITANCE ON UIM1\_POWER NET SHOULD BE 0.33UF. TOO LITTLE COMPROMISES REGULATOR STABILITY, TOO MUCH CAN CAUSE INADVERTENT POWER-ON RESETS AT VDD.
- PLACEMENT FOR 20795G VS H:

REF	20795G (ESE)	20795H (EEPROM)
R4126H	DNI	PLACE
C4128H	PLACE	DNI
- FOR SMALL NFC ANTENNAS, EXTERNAL CRYSTAL OSCILLATOR CIRCUIT MUST BE USED - SEE EE8994CORE-296 FOR DETAILS. IF USE OF EXTERNAL CLOCK IS DESIRED, CHECK WITH BROADCOM BEFORE COMMITTING.

APPROVALS			
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Thu Jul 30 10:00:47 2015		<b>connectivity</b>	
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 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 43 OF 76	

# CONN: UIM1/UIM2/SDCARD

REF:4200-4219



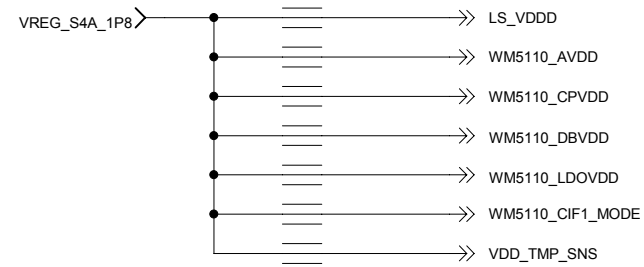
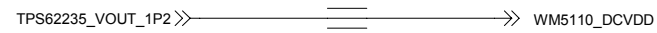
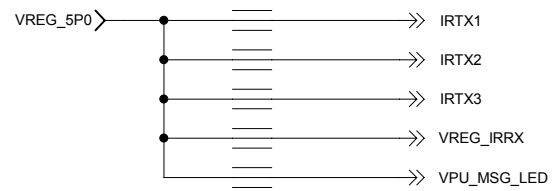
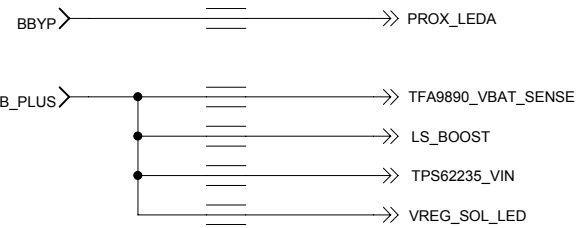
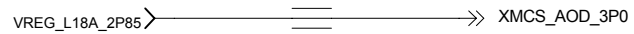
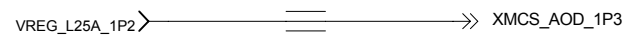
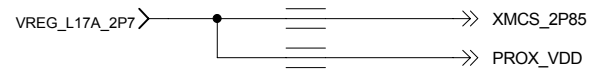
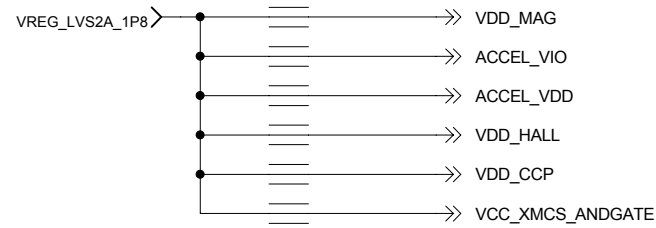
NOTE 1: USE 24.9K PULL-UP TO SUPPORT HOT SWAP WITH FREEZE-IO FEATURE.  
 NOTE 2: UIM\_PWR BYPASS OF 0.33UF RECOMMENDED BY NFC IC SUPPLIER, PLACE NEAR CONNECTOR.

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Thu Jul 30 10:00:47 2015		<b>connectivity</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 44 OF 76

# XMCS: POWER

REF 6000-6999

## SUPPLIES

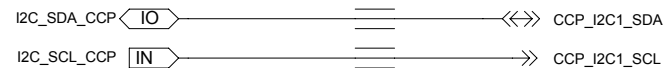
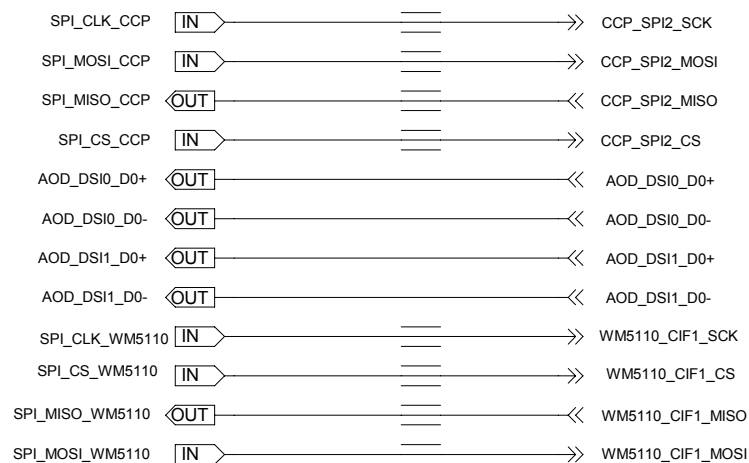
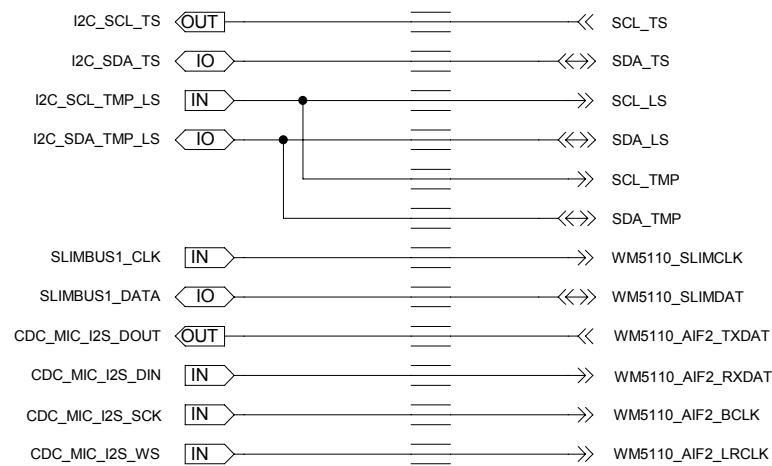


APPROVALS			
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Fri May 15 09:10:07 2015		<b>xmcs</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		B 84016327001_a_released.cpm	01
		PAGE 45 OF 76	

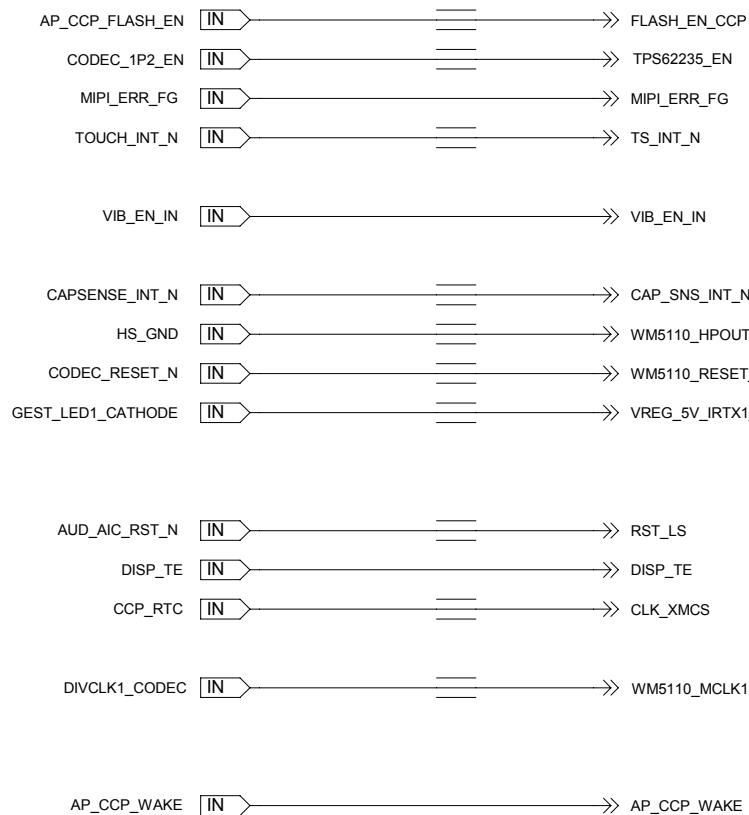
# XMCS: PORTS

REF 6000-6999

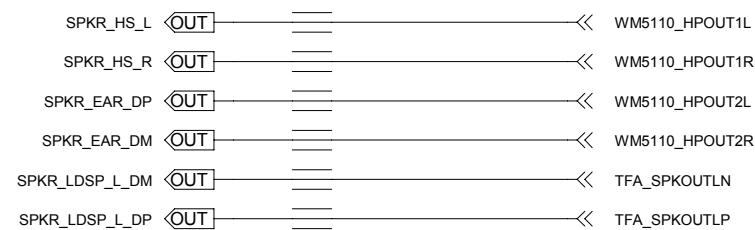
## INTERFACES



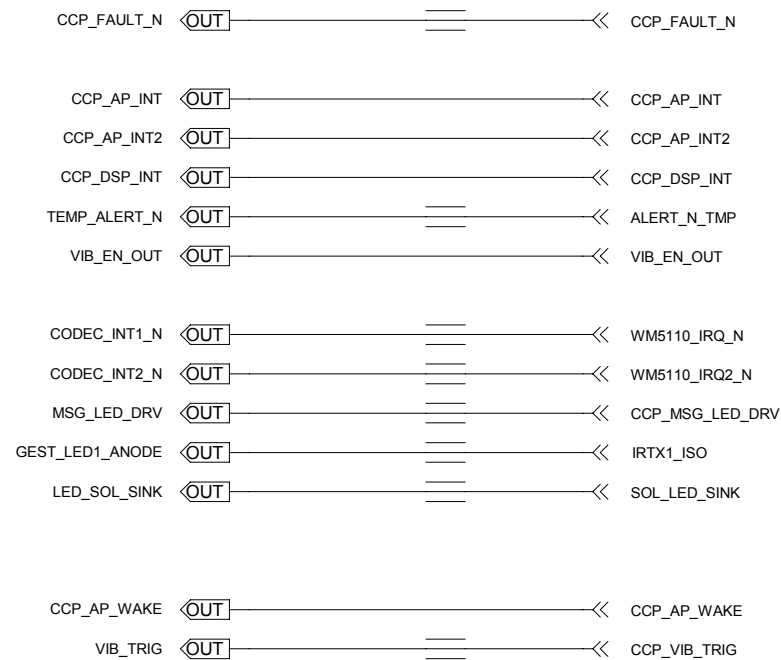
## INPUTS



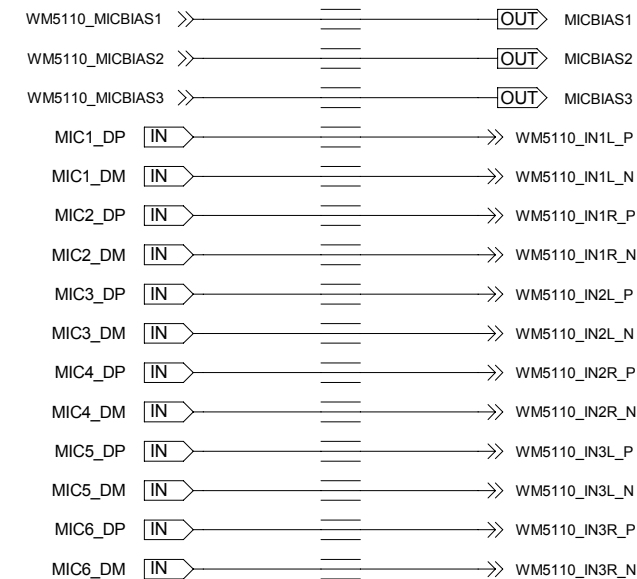
## SPEAKER PATHS



## OUTPUTS



## MICROPHONES



### APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL  
 Mon Apr 13 14:05:33 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

**xmcs**

PROJECT NAME  
 84016327001\_a\_released.cpm

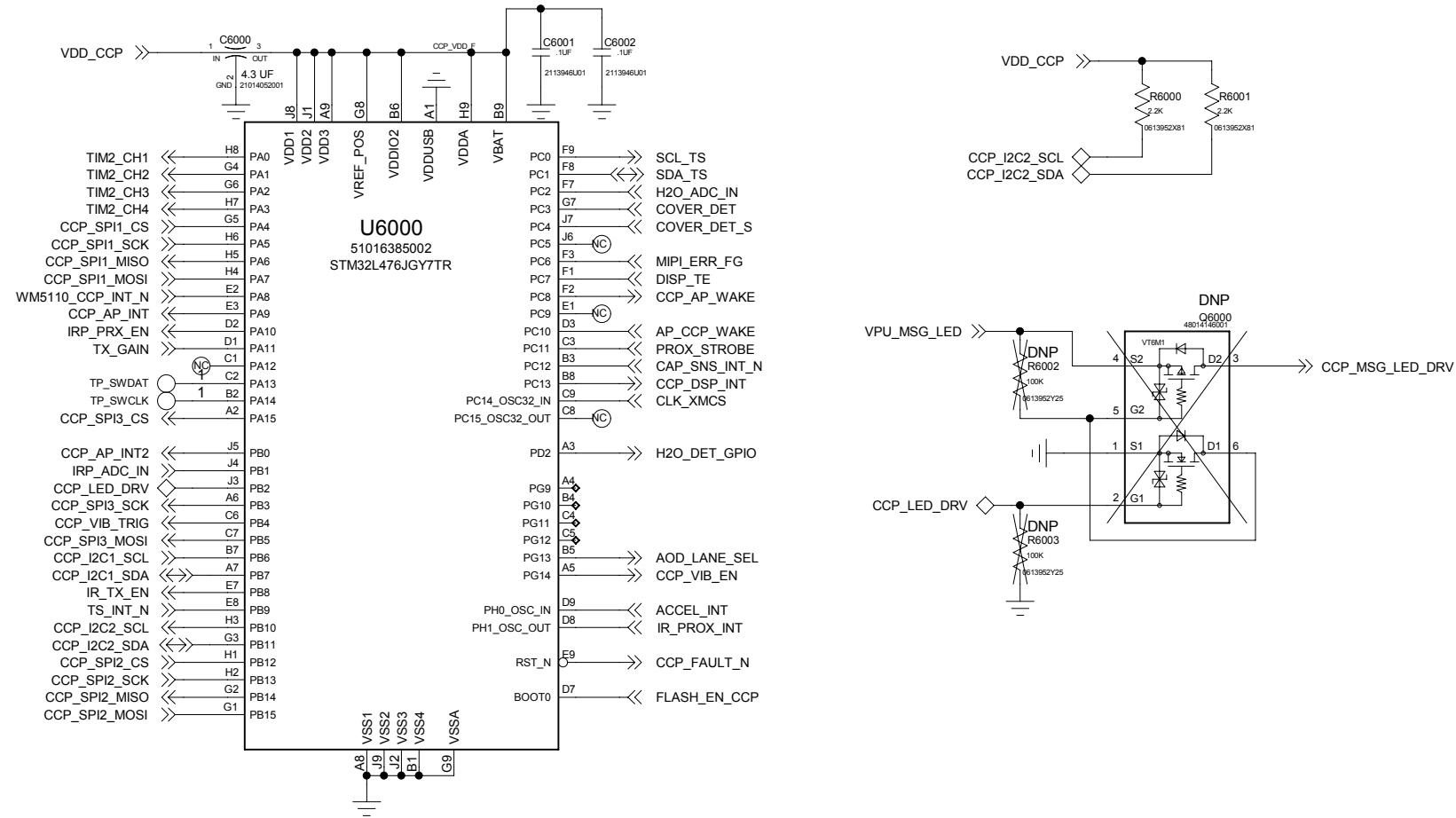
REV  
 01

CAD FILE NAME:

PAGE 46 OF 76

# XMCS: CCP

REF: 6000-6049



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: JOHN GORSICA		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Thu Jul 30 10:00:49 2015		<b>xmcs</b>	
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 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 47 OF 76	

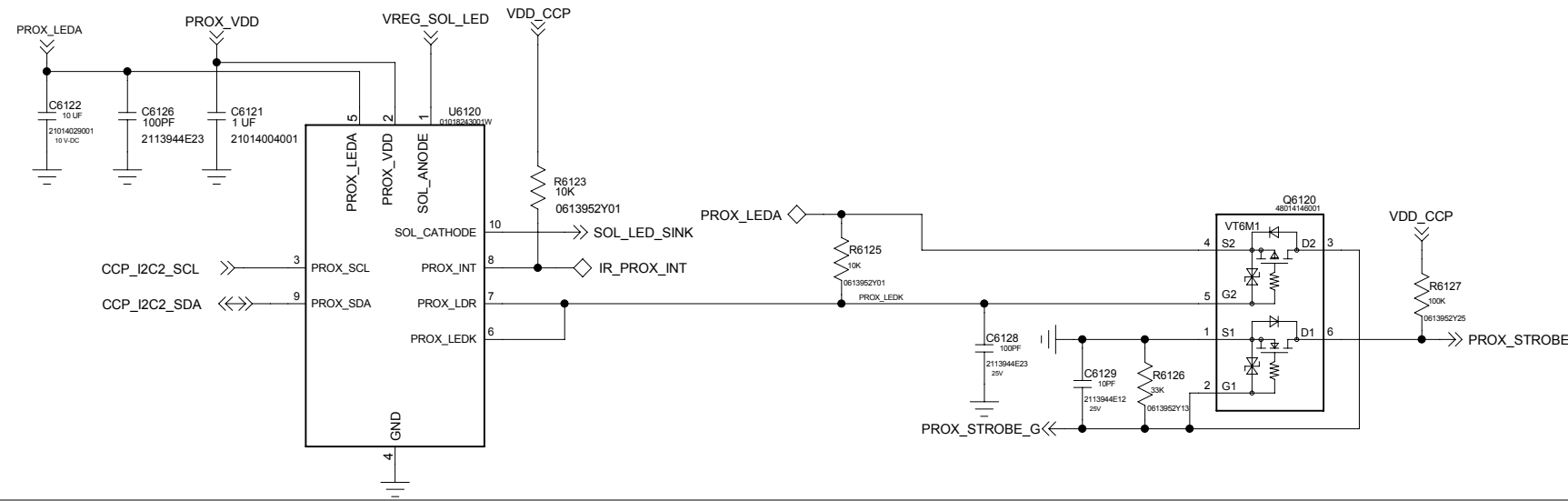
# XMCS: SENSORS

REF: 6100-6199

## PROX SENSOR/ALS

REF:6120-6129

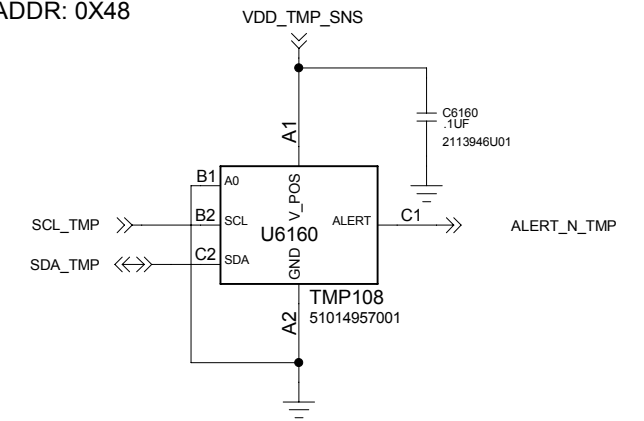
I2C ADDR: 0X39



## BOARD TEMP SENSORS

REF:6160-6169

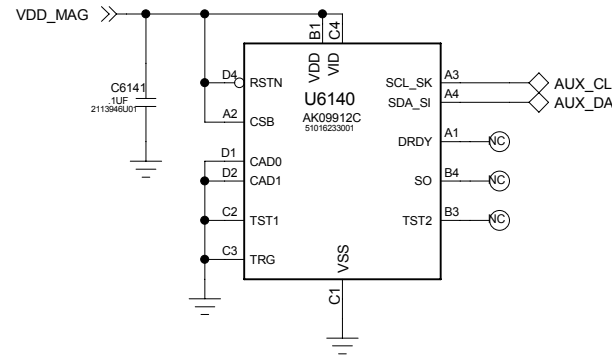
I2C ADDR: 0X48



## MAGNETOMETER

REF:6140-6149

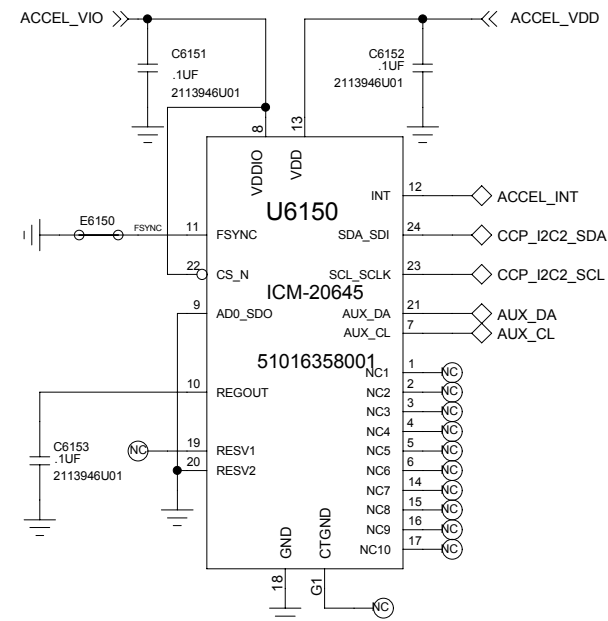
I2C ADDR: 0X0C



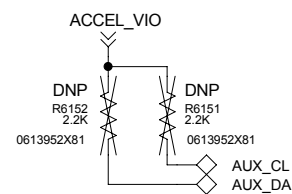
## ACCELEROMETER+GYRO

REF:6150-6159

I2C ADDR: 0X68

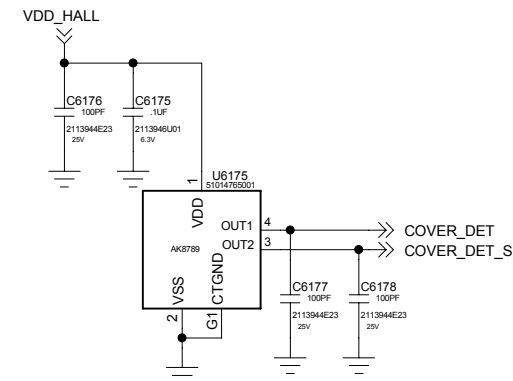


PRODUCTS MUST FOLLOW BUNKER HILL PCB ORIENTATION



## HALL EFFECT

REF:6170-6179



2ND HALL EFFECT FOR SMART COVER SUPPORT

JOHN GORSICA/NATE CONNELL APPROVALS

ENGINEER: C HERNANDEZ

LAST MODIFIED BY: C HERNANDEZ  
Thu Jul 30 10:00:50 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

xmcs

PROJECT NAME  
84016327001ABPAC00001

REV  
01

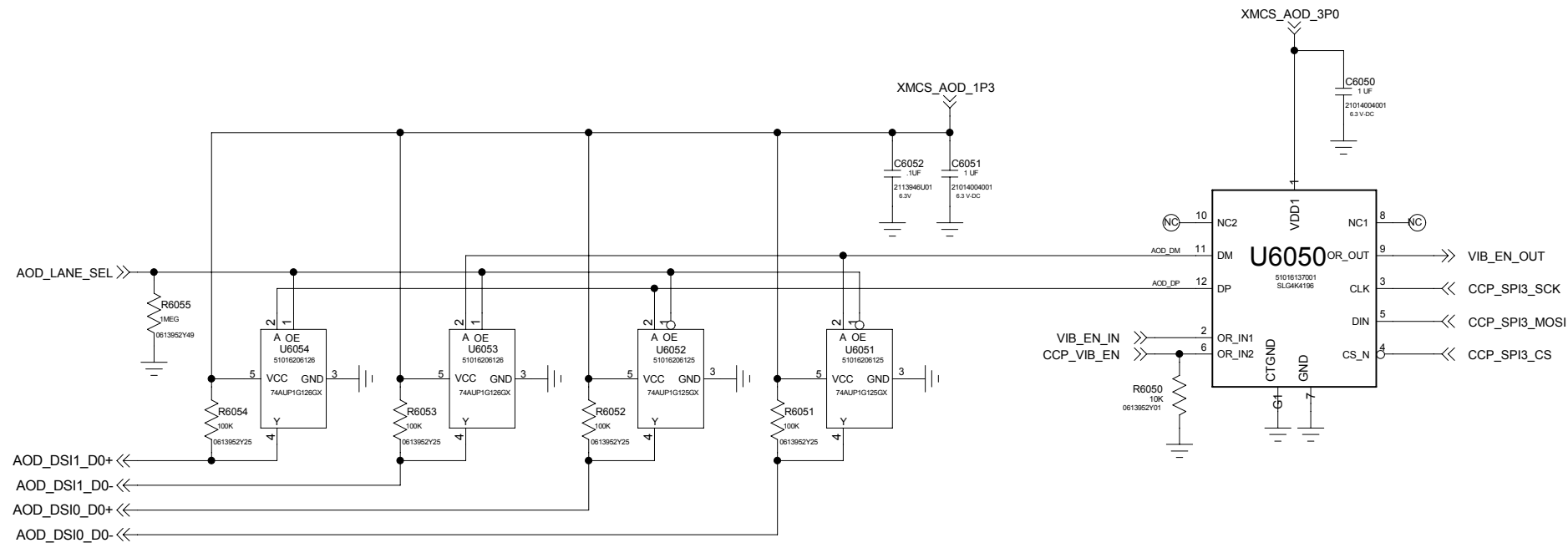
CAD FILE NAME:


PAGE 48 OF 76



# XMCS: AOD

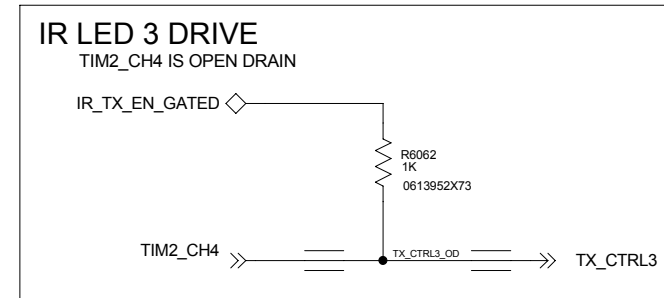
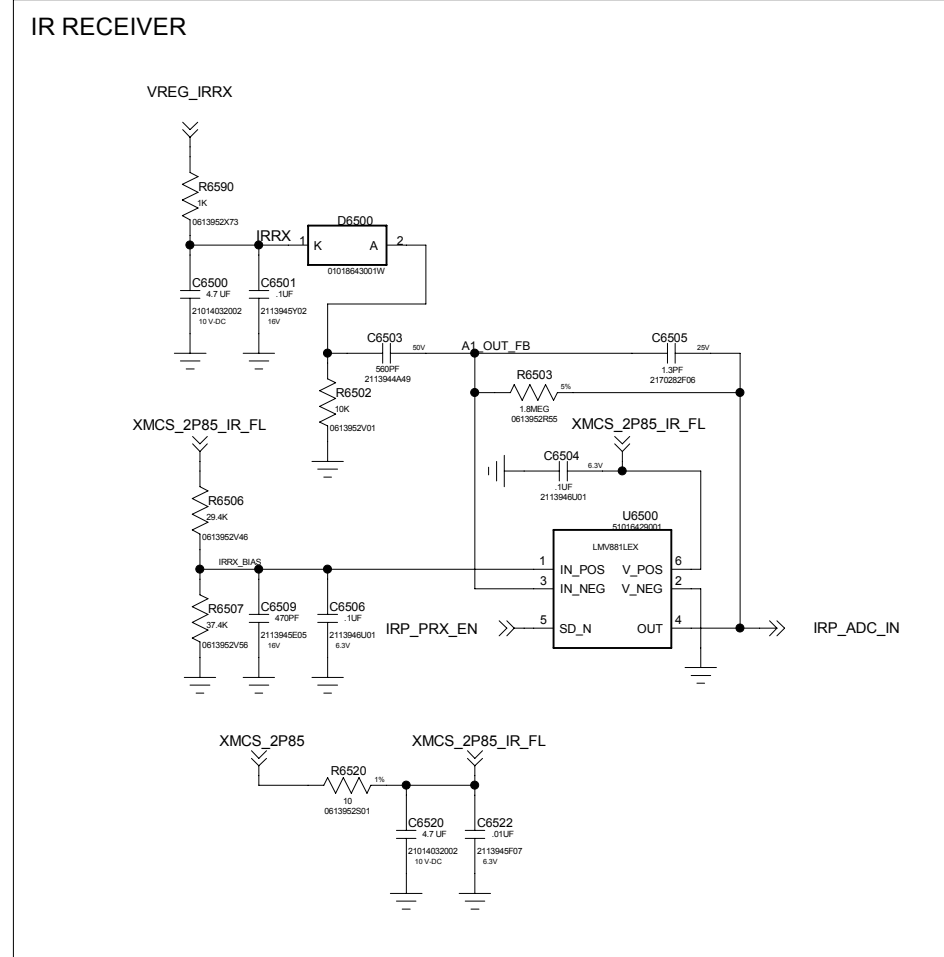
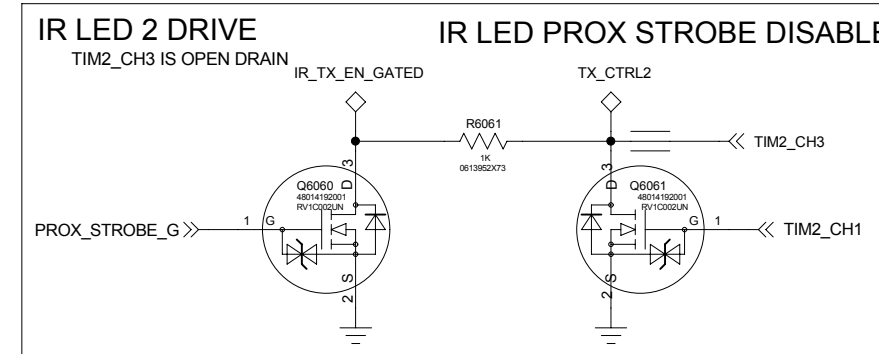
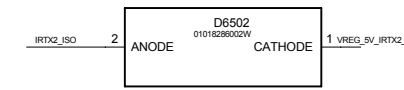
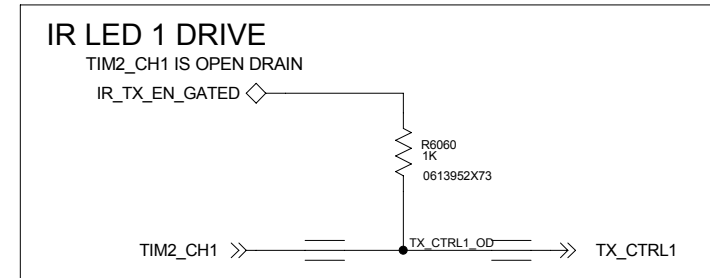
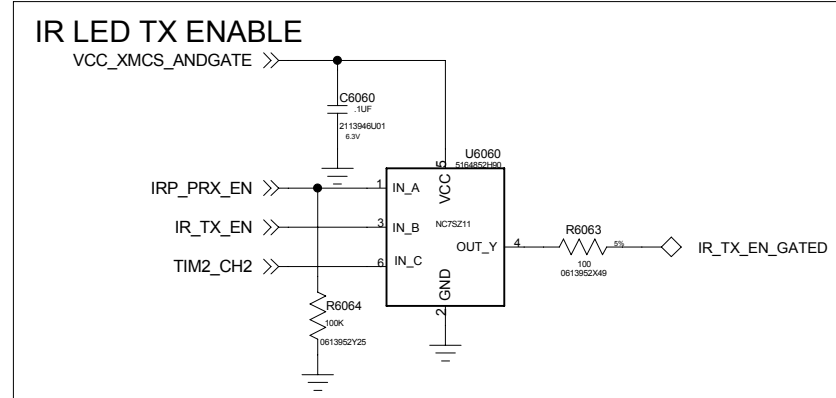
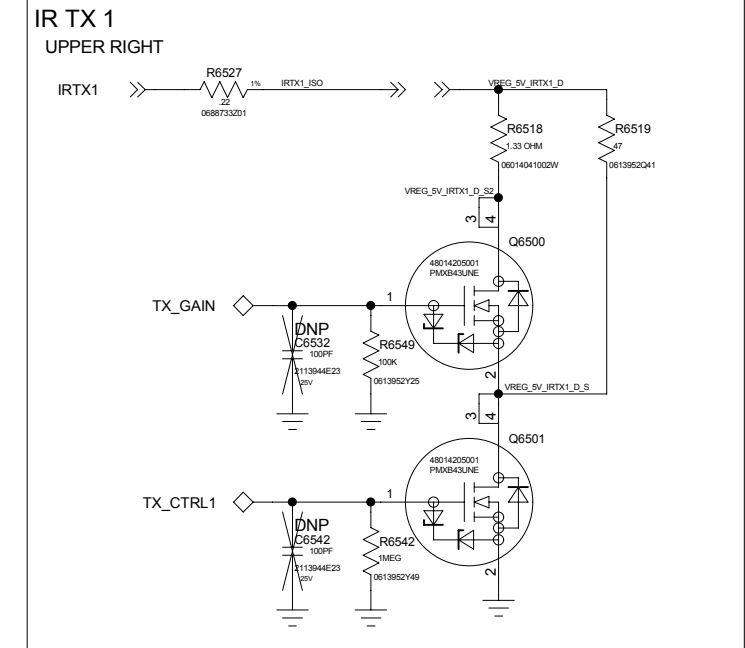
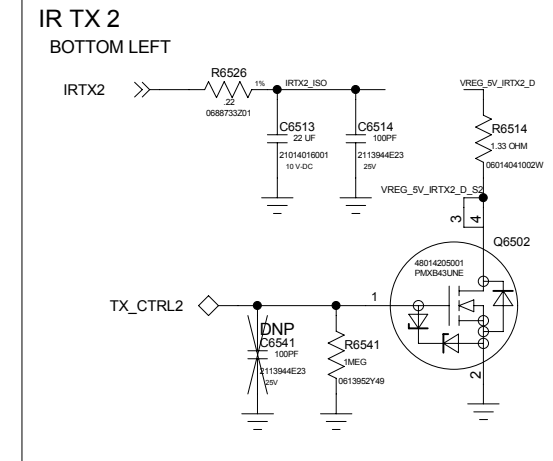
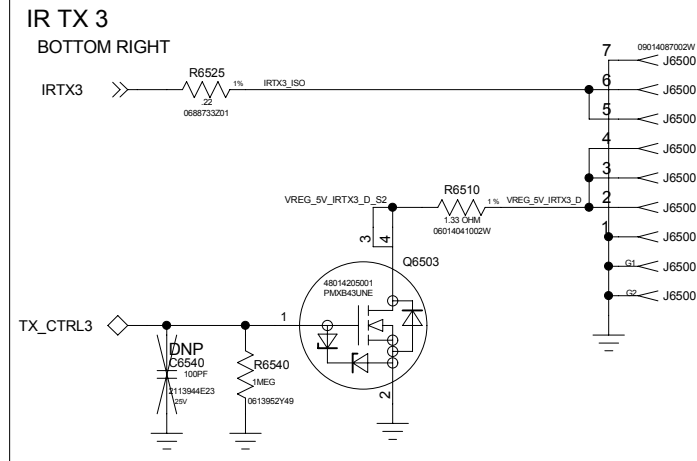
REF: 6050-6059



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:51 2015		<b>xmcs</b>	
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>B</b> 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 49 OF 76	

# XMCS: IR GESTURES

REF 6500-6549

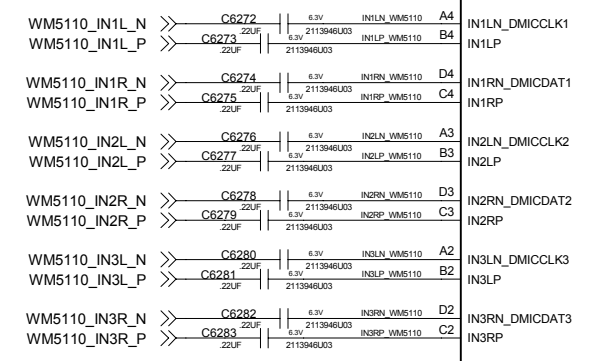
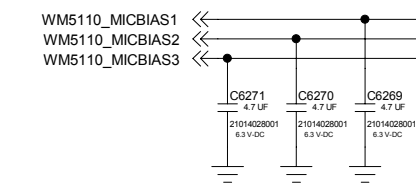
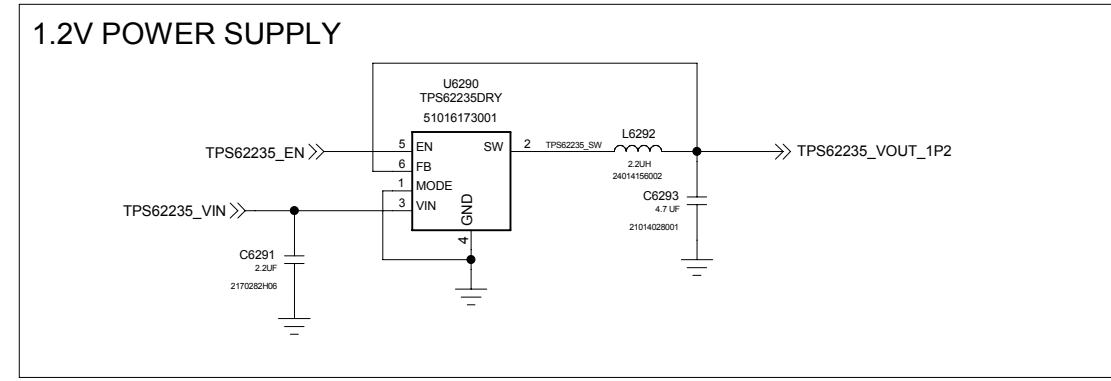
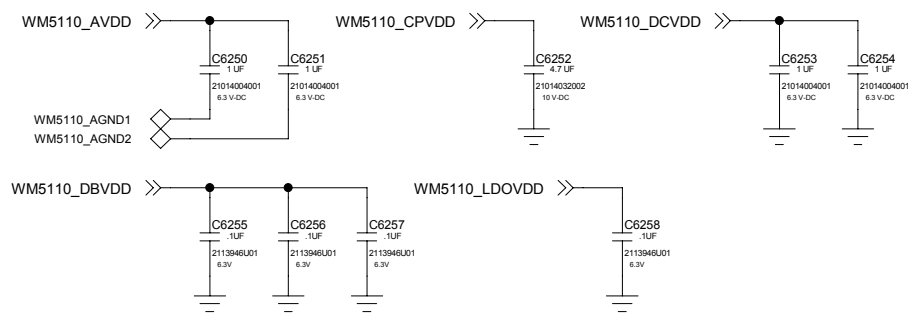
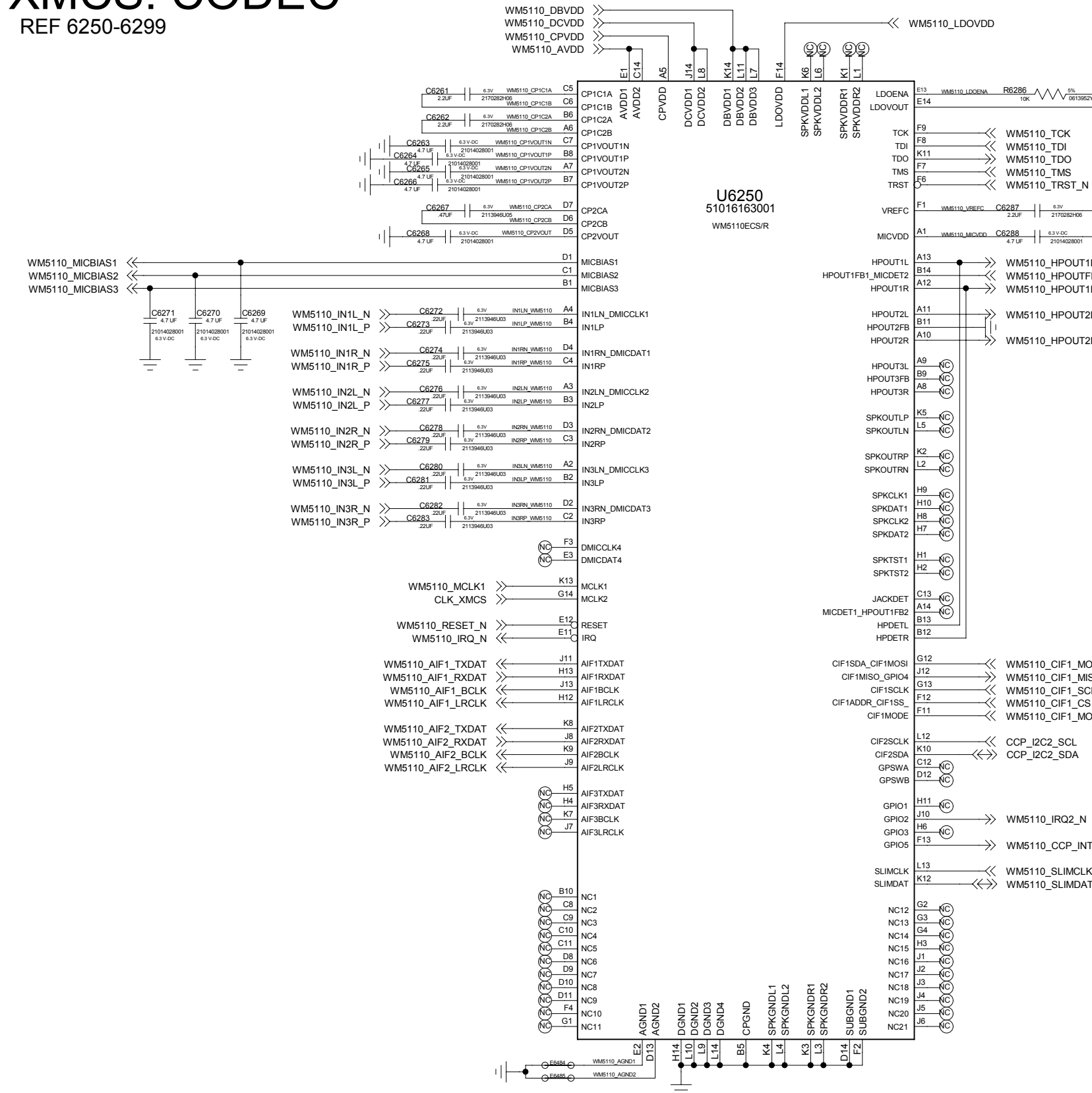


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MATT MOTTIER		BLOCK TITLE:	
LAST MODIFIED BY: UDI ELRAN Thu Jul 30 10:00:51 2015		<b>xmcs</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 50 OF 76	

# XMCS: CODEC

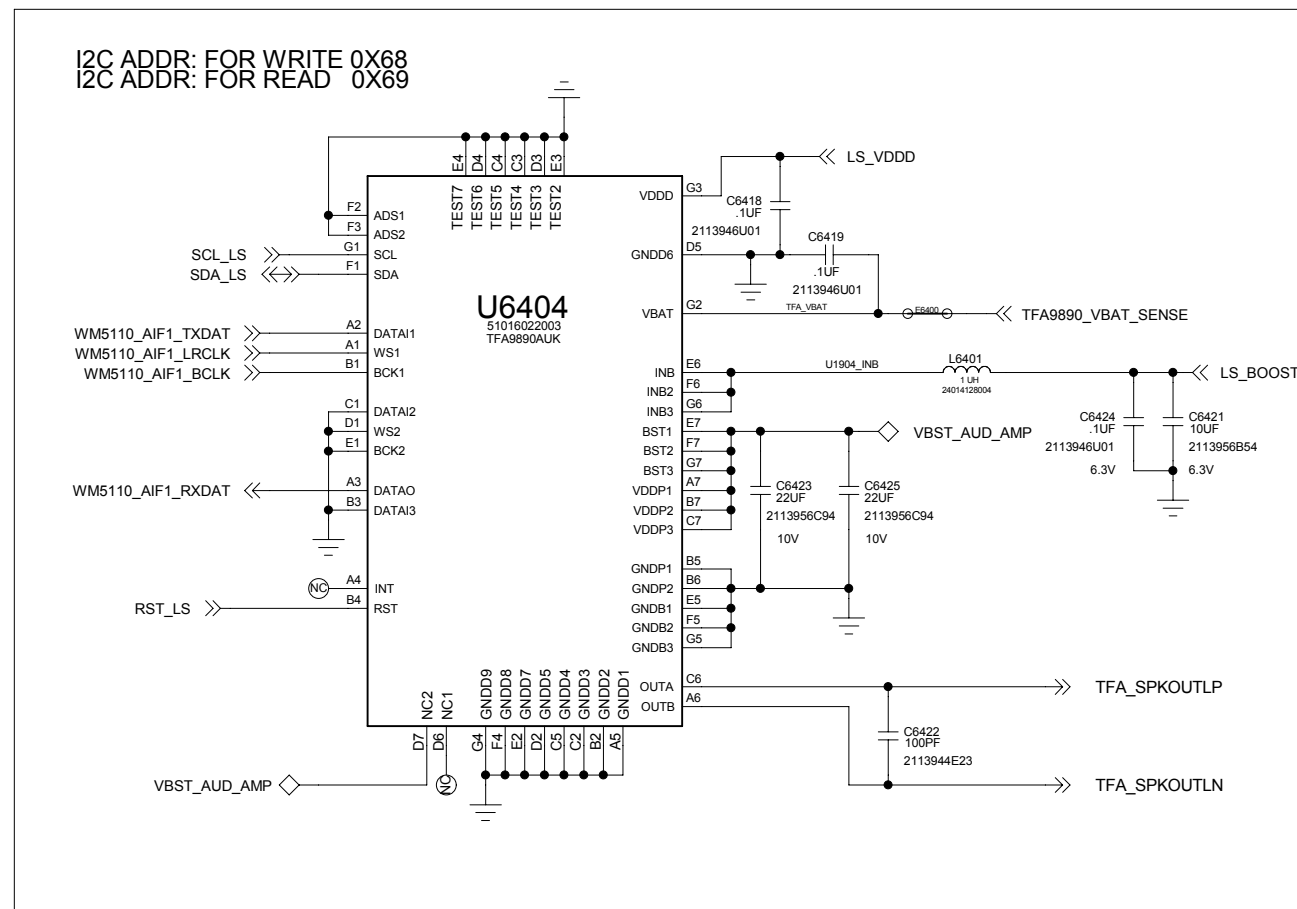
REF 6250-6299



APPROVALS			
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:52 2015		<b>xmcs</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<small>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>		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 51 OF 76	

# XMCS: LOUD SPEAKER

REF 6400-6499



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:52 2015		<b>xmcs</b>	
MOTOROLA CONFIDENTIAL RESTRICTED 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		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 52 OF 76	

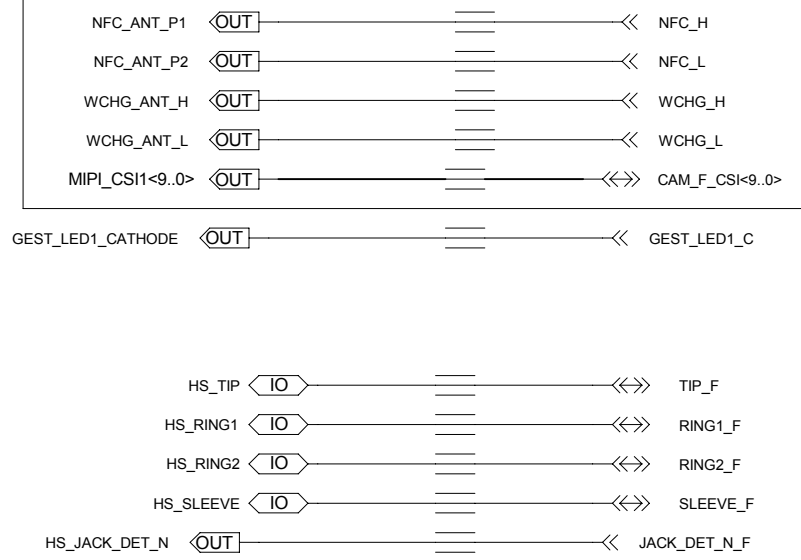
# USR: PORTS

REF: 700-899

## SUPPLIES

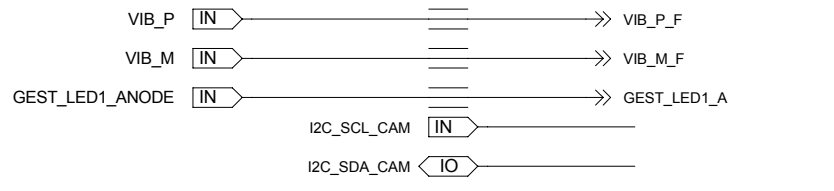
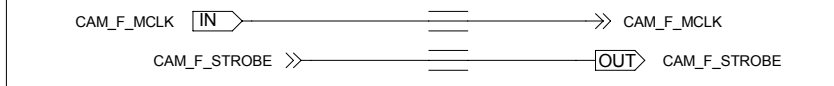


## INTERFACES



## GPIO - INPUT

## GPIO - OUTPUT

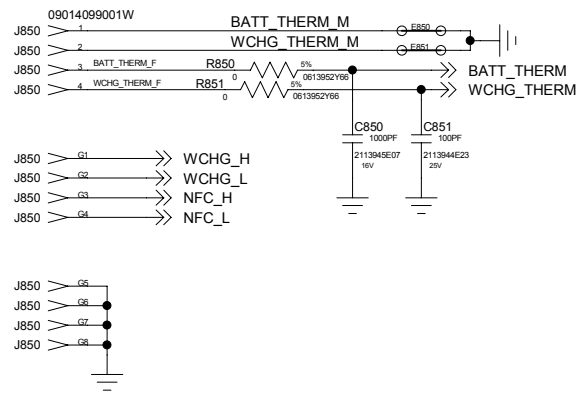


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Fri May 15 09:09:55 2015		<b>user_input</b>	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		<b>B</b> PROJECT NAME 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 53 OF 76	

# USR: WLC/NFC FLEX

REF: 800-899

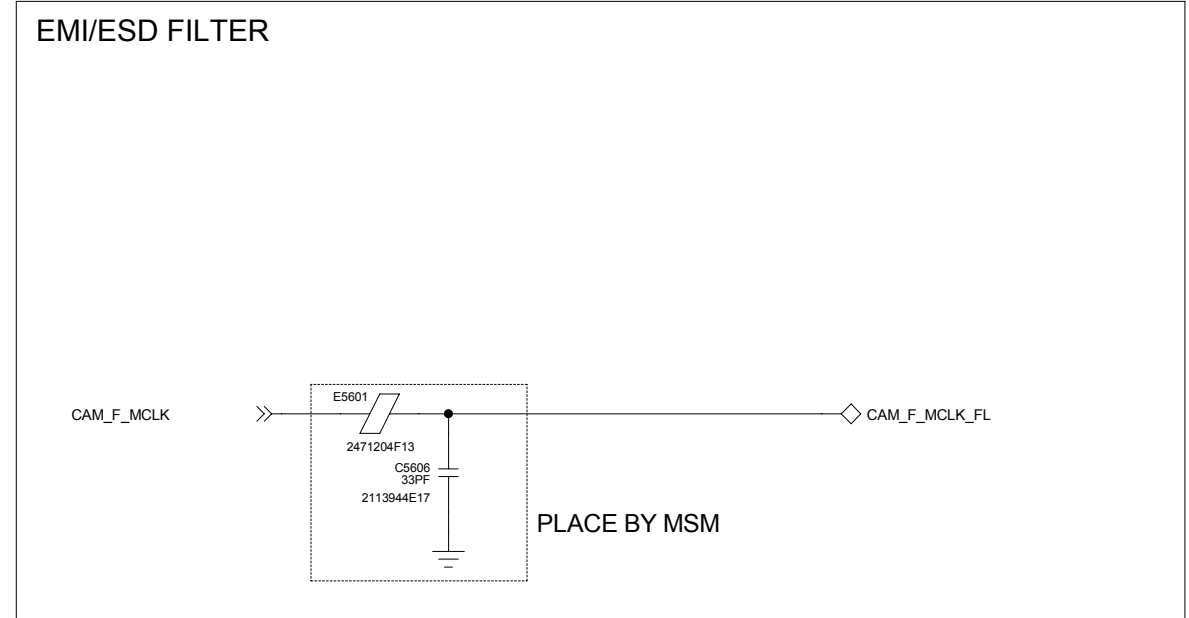
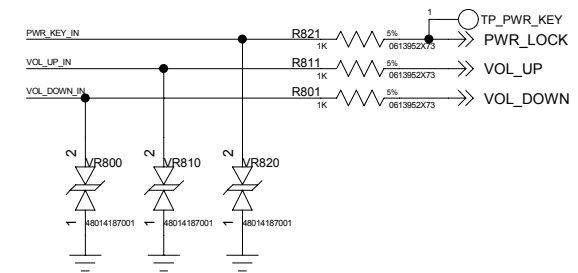
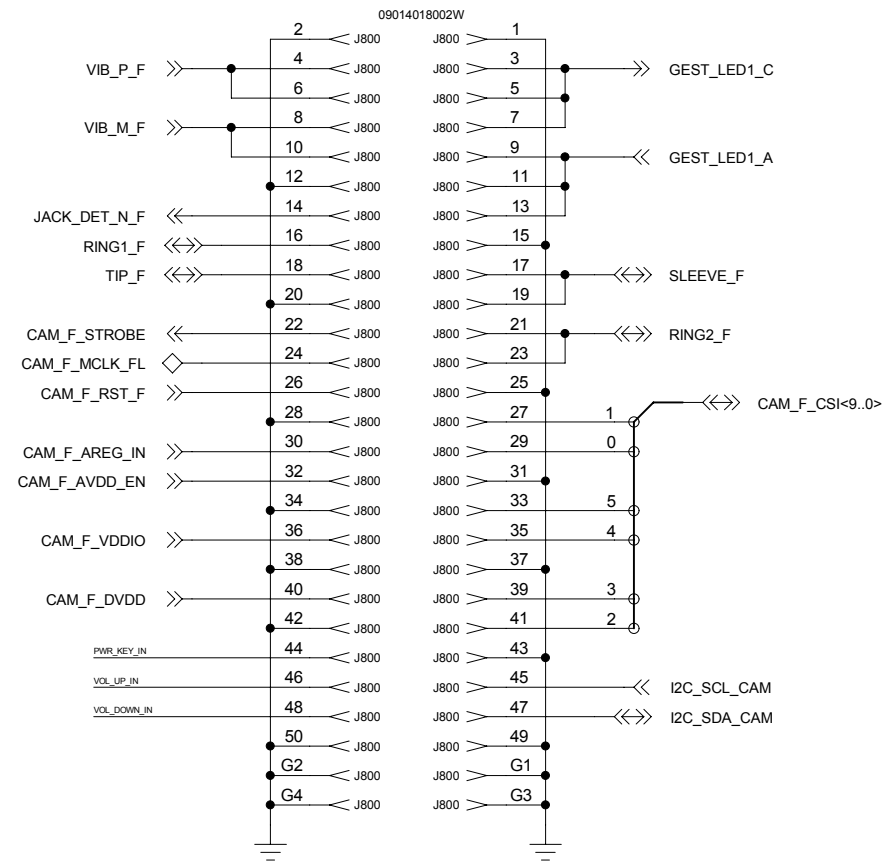
ROUTE BATT\_THERM\_M AND WCHG\_THERM\_M AS DIFF PAIR WITH THERM  
GROUND SHORT DOTS AT THERM INPUTS TO IC



APPROVALS			
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Thu Jul 30 10:00:54 2015		<b>user_input</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<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>		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 54 OF 76

# USR: TOP FLEX

REF: 800-899

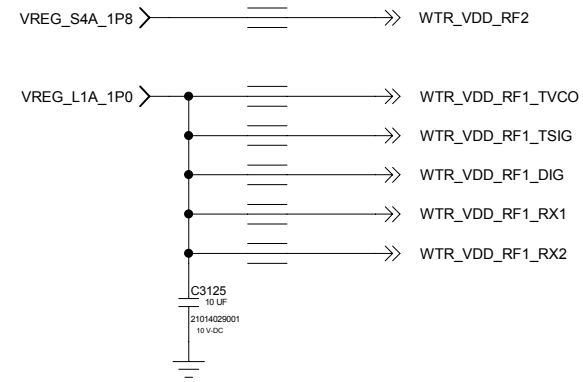



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Thu Jul 30 10:00:54 2015		<b>user_input</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 55 OF 76

# WTR39X5: POWER

REF 3120-3199

## SUPPLIES

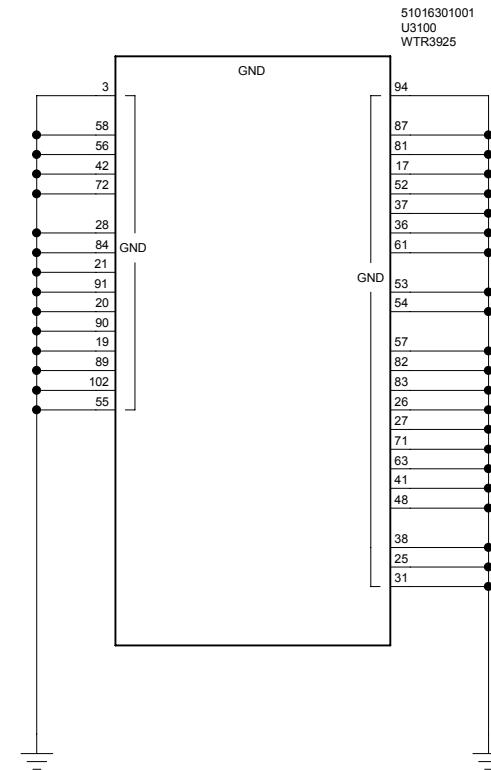
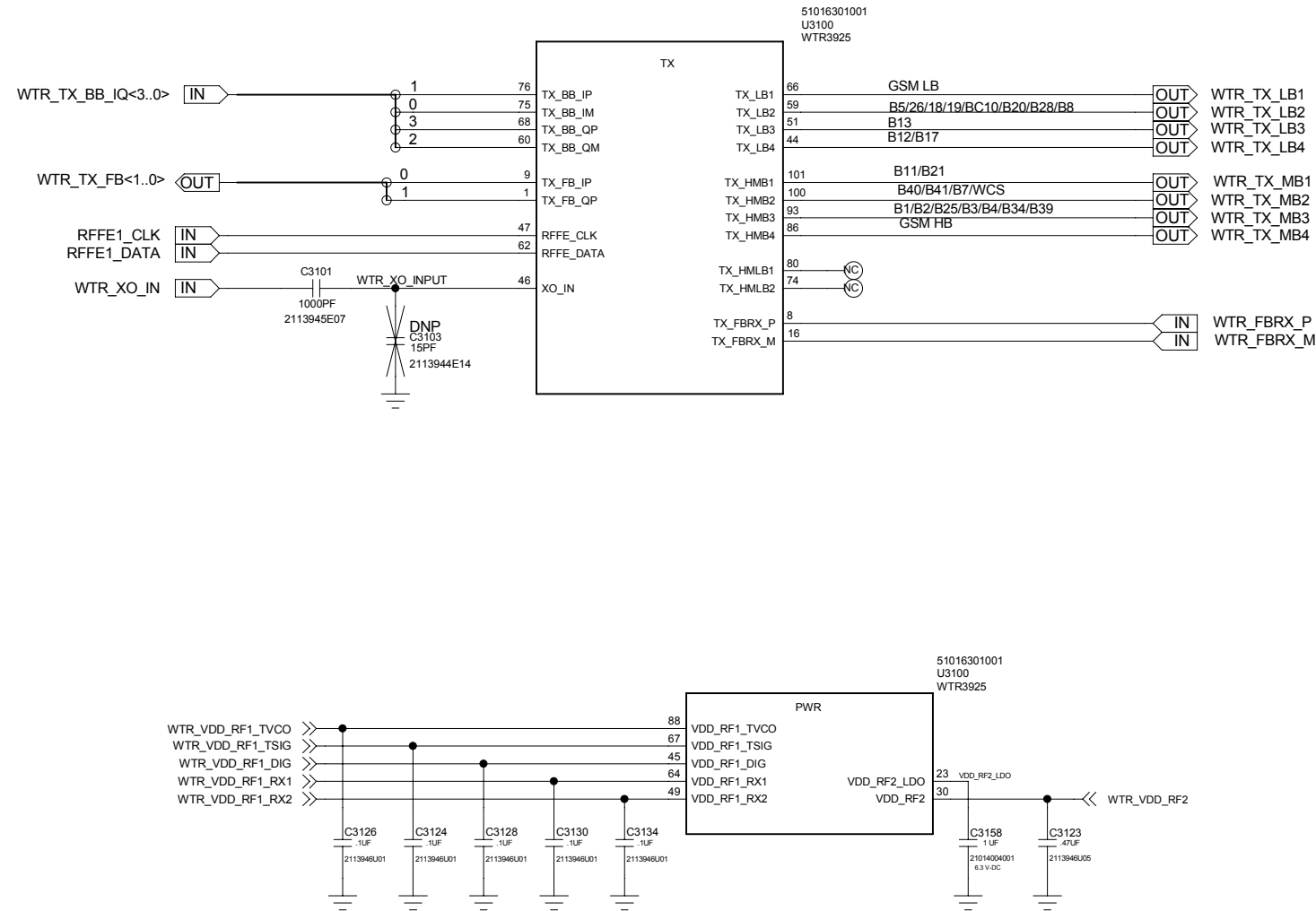


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:56 2015		<b>block_wtr39x5</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		B 80046327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 56 OF 76



# WTR39X5: TX/PWR/GROUND

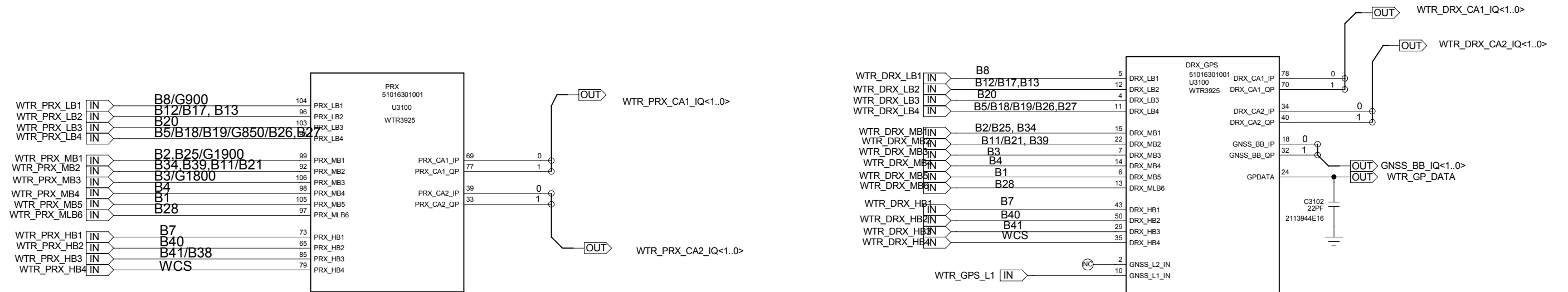
REF 3100-3109




APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:55 2015		<b>block_wtr39x5</b>	
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>80046327001_a_released.cpm</b>	REV <b>01</b>
		CAD FILE NAME:	
		PAGE 57 OF 76	

# WTR39X5: PRX/DRX/GPS

REF 3110-3119



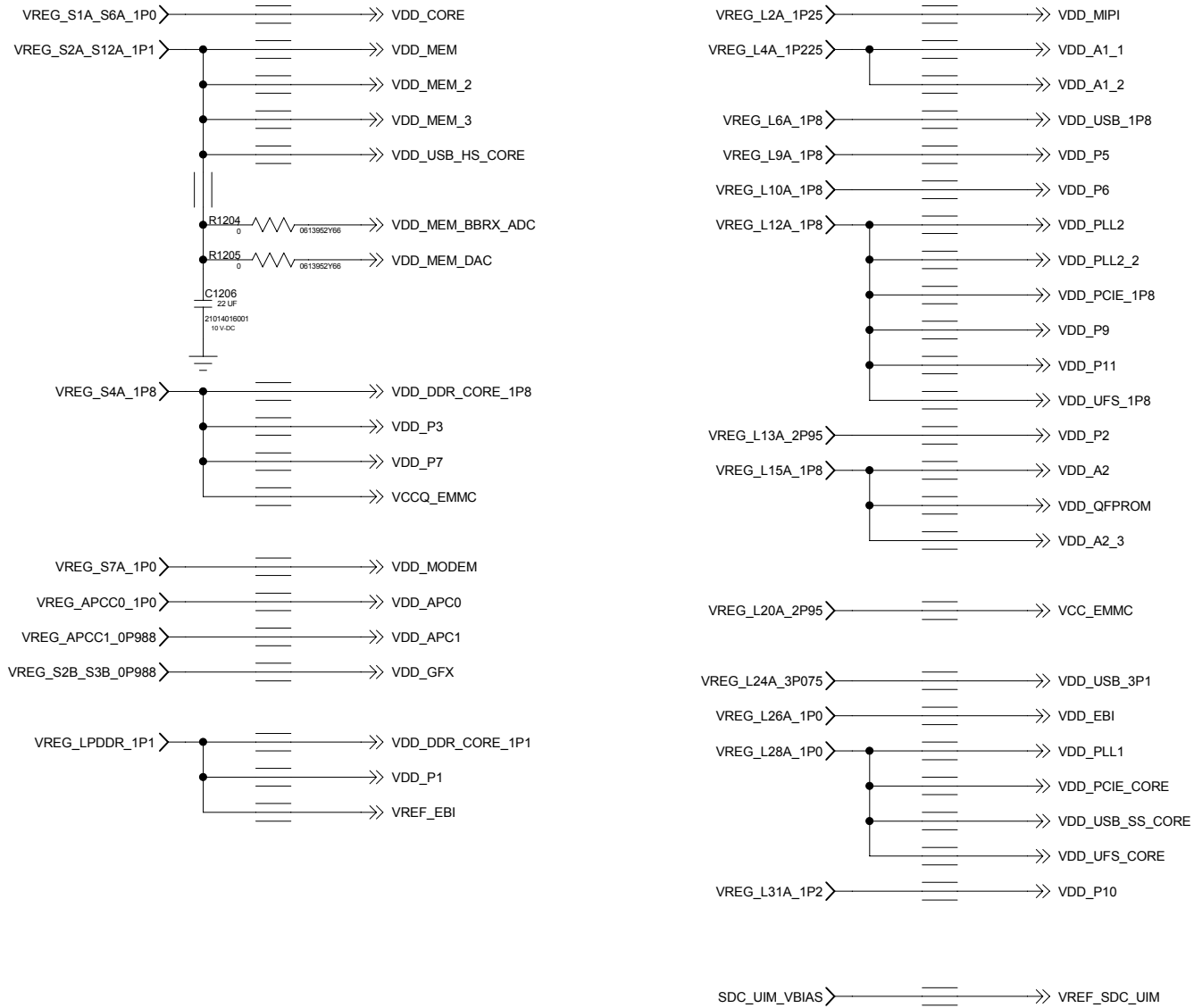
QCOM'S NOTE:  
WTR/WFR CA\_IN/OUT INTERCONNECTION MAXIMUM TRACE LENGTH:  
LOW BAND 12 MM; MID/ HI BAND 10 MM

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:56 2015		<b>block_wtr39x5</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 80046327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 58 OF 76

# MSM8994: POWER

REFDES: 1200-1299

## SUPPLIES

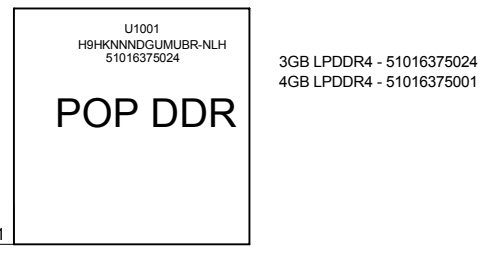
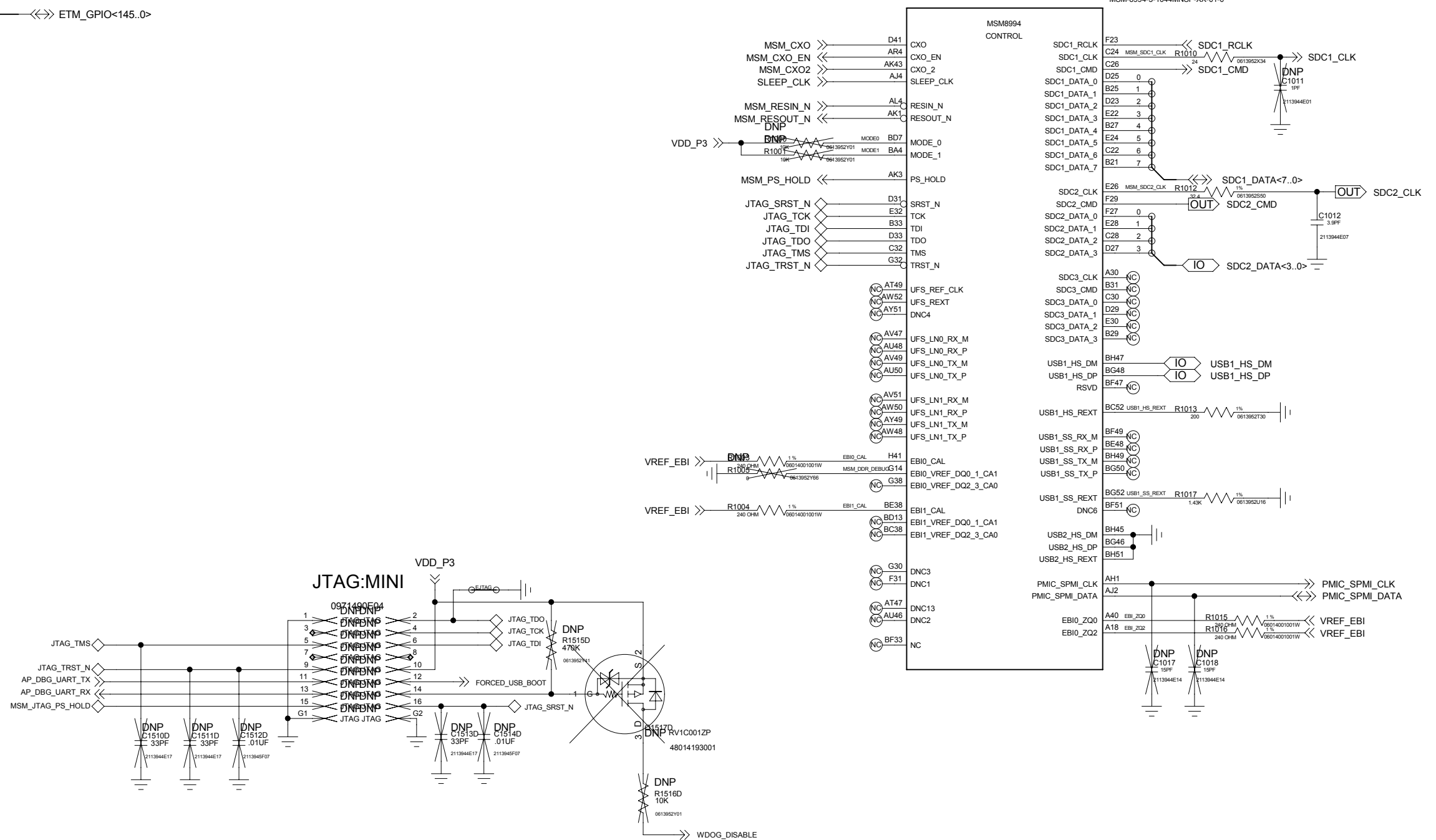
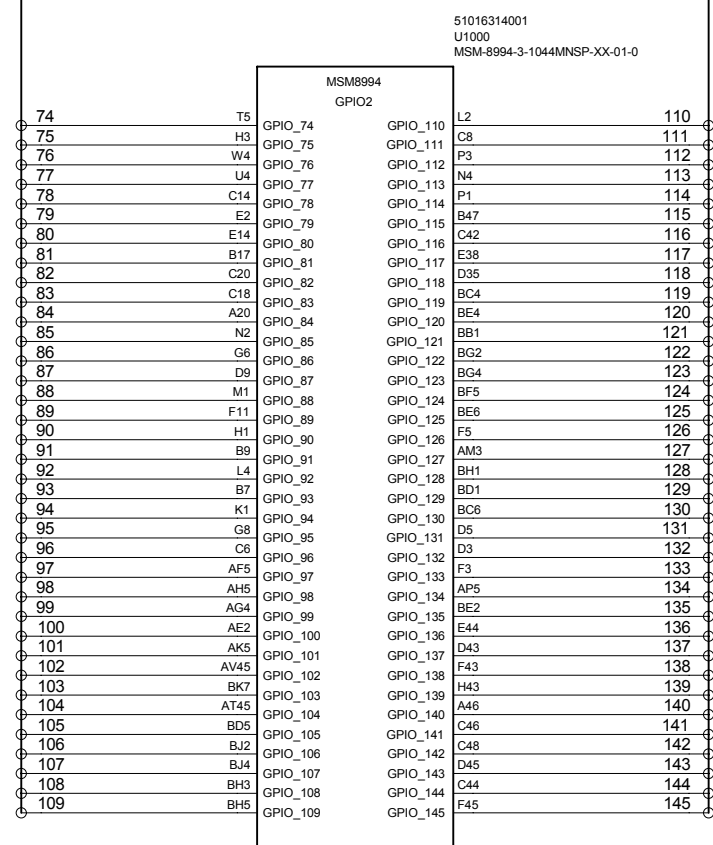
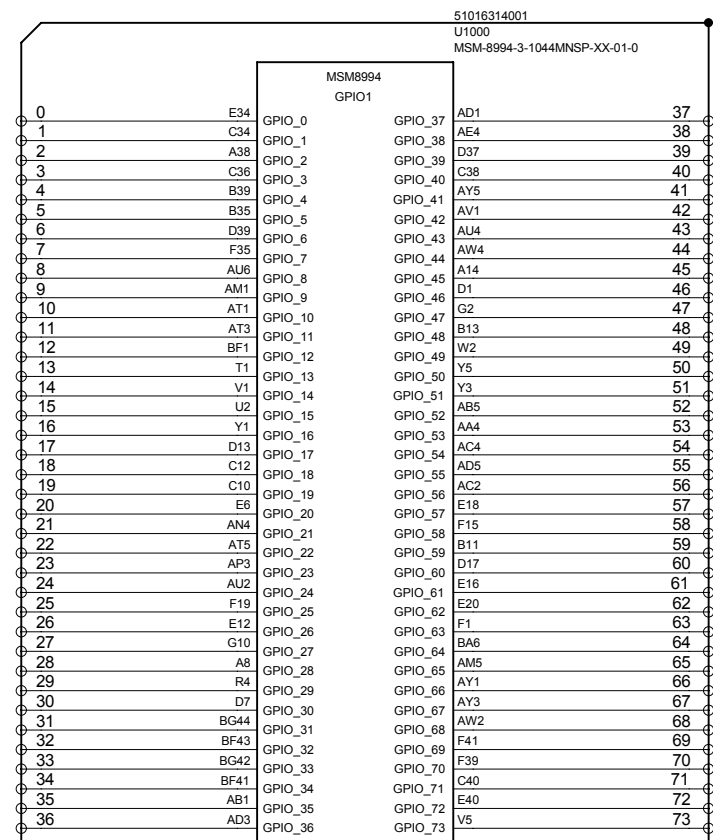


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NICK HACKETT		BLOCK TITLE:	
LAST MODIFIED BY: NICK HACKETT Thu Jul 30 10:01:07 2015		<b>ap_pmic</b>	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		B PROJECT NAME 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 59 OF 76	

# MSM8994: CTRL/USB/GPIO

REFDES: 1000-1099

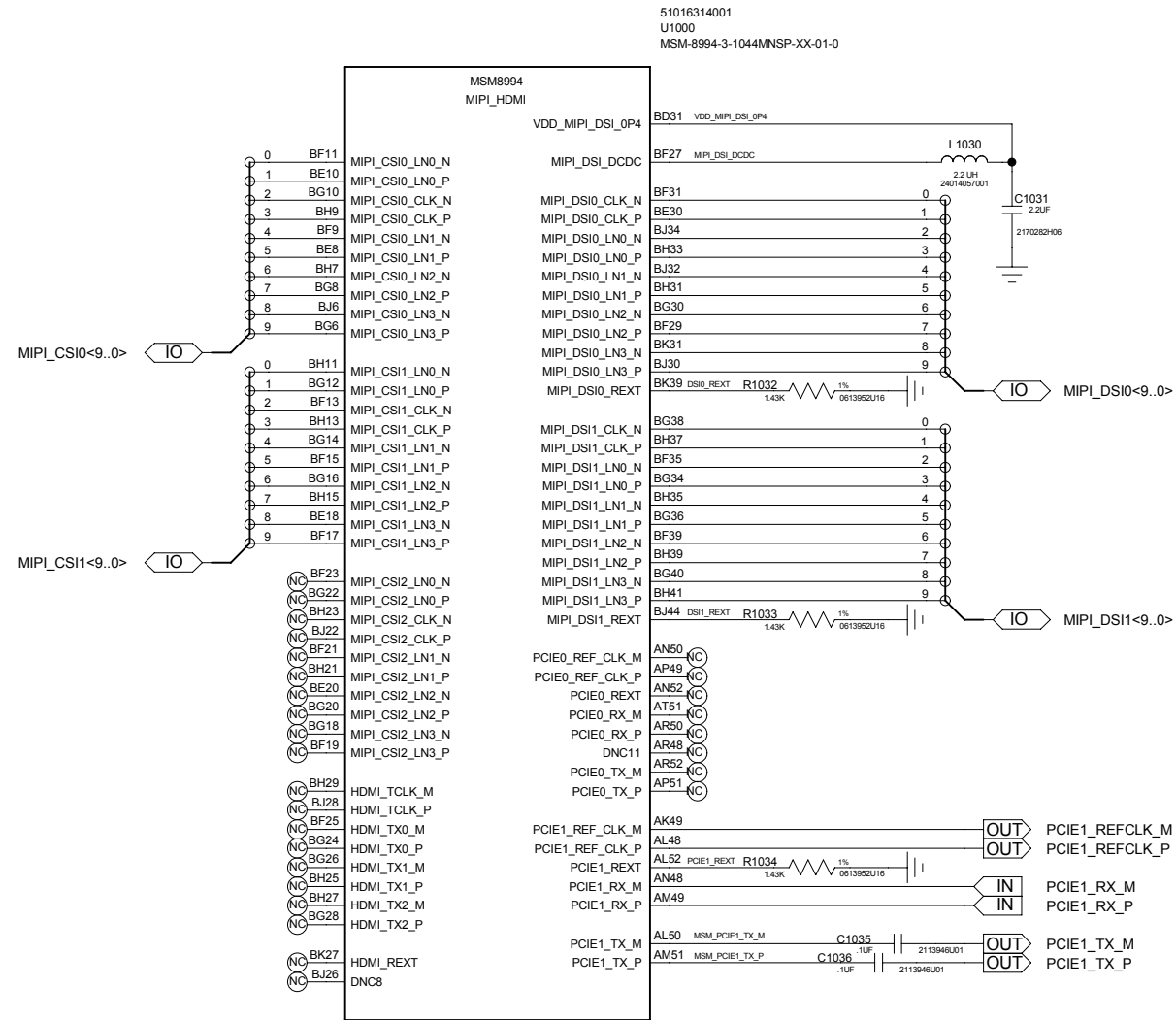
FOR PORTABLE DESIGNS RENAME ETM\_GPIO BUS TO GPIO BUS



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:00:57 2015		ap_pmic	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 60 OF 76	

# MSM8994: MIPI/HDMI/PCIE

REFDES: 1030-1039



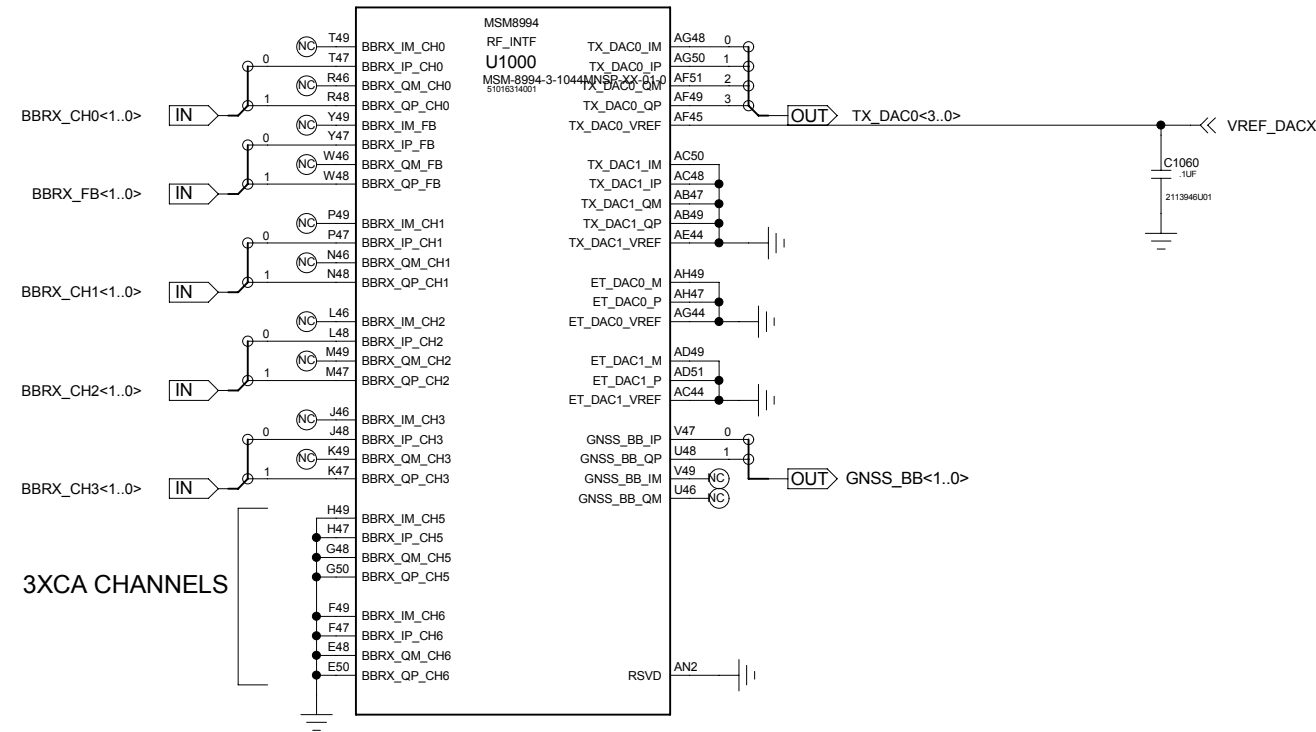
BASED ON 80-NJ051-41 REV. U

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:01:04 2015		<b>ap_pmic</b>	
MOTOROLA CONFIDENTIAL RESTRICTED 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		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 61 OF 76	

# MSM8994: RF INTERFACE

REFDES: 1040-1049



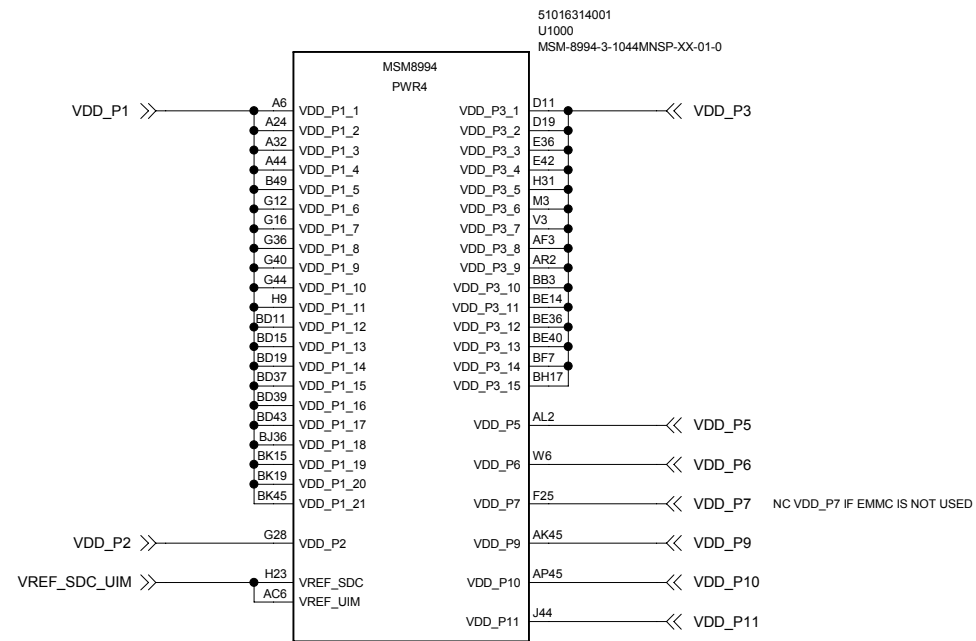
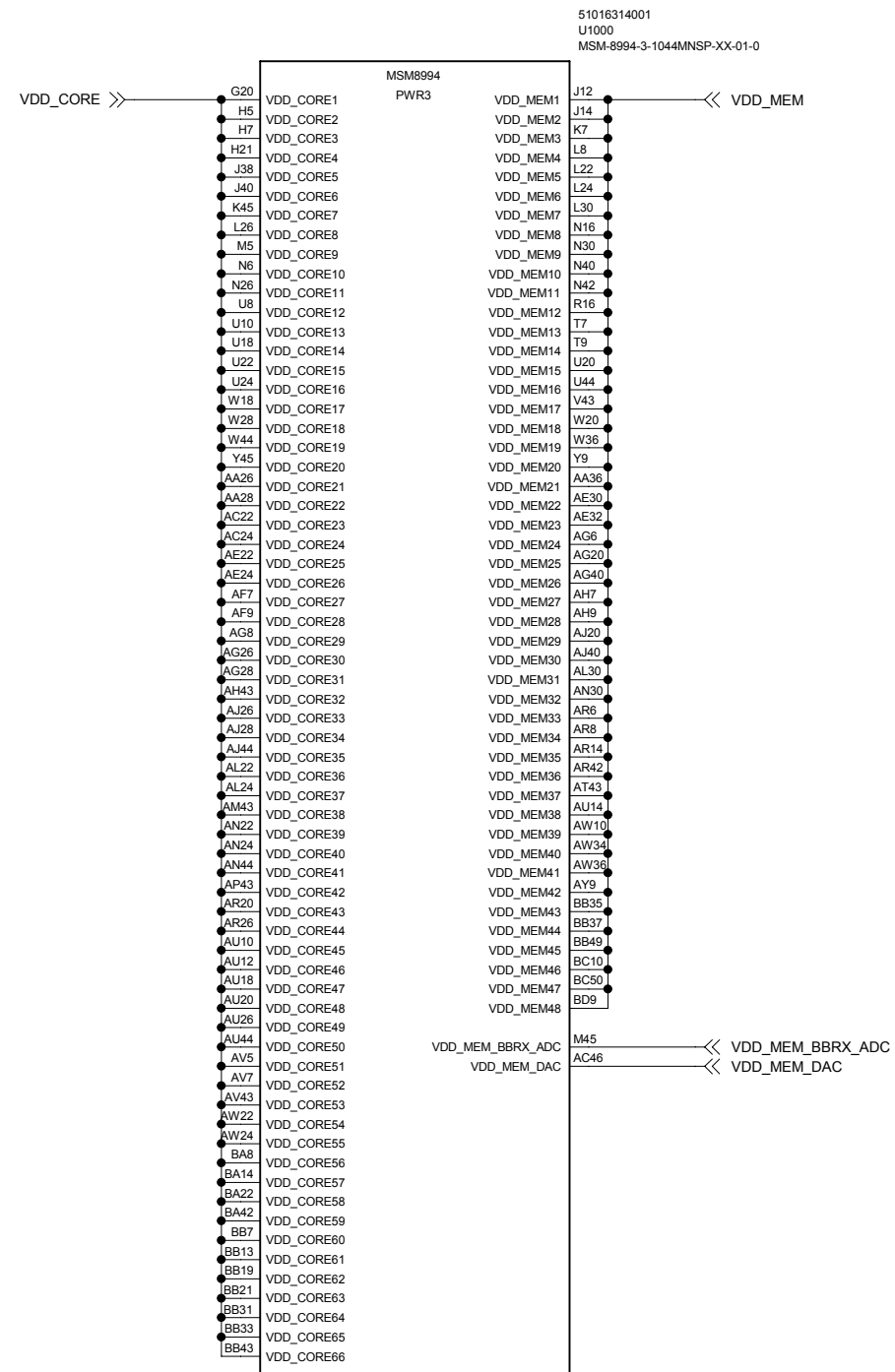
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:01:05 2015		<b>ap_pmic</b>	
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>B</b> 84016327001_a_released.cpm	REV 01
		CAD FILE NAME:	
		PAGE 62 OF 76	

BASED ON 80-NJ051-41 REV. U



# MSM8994: POWER 2

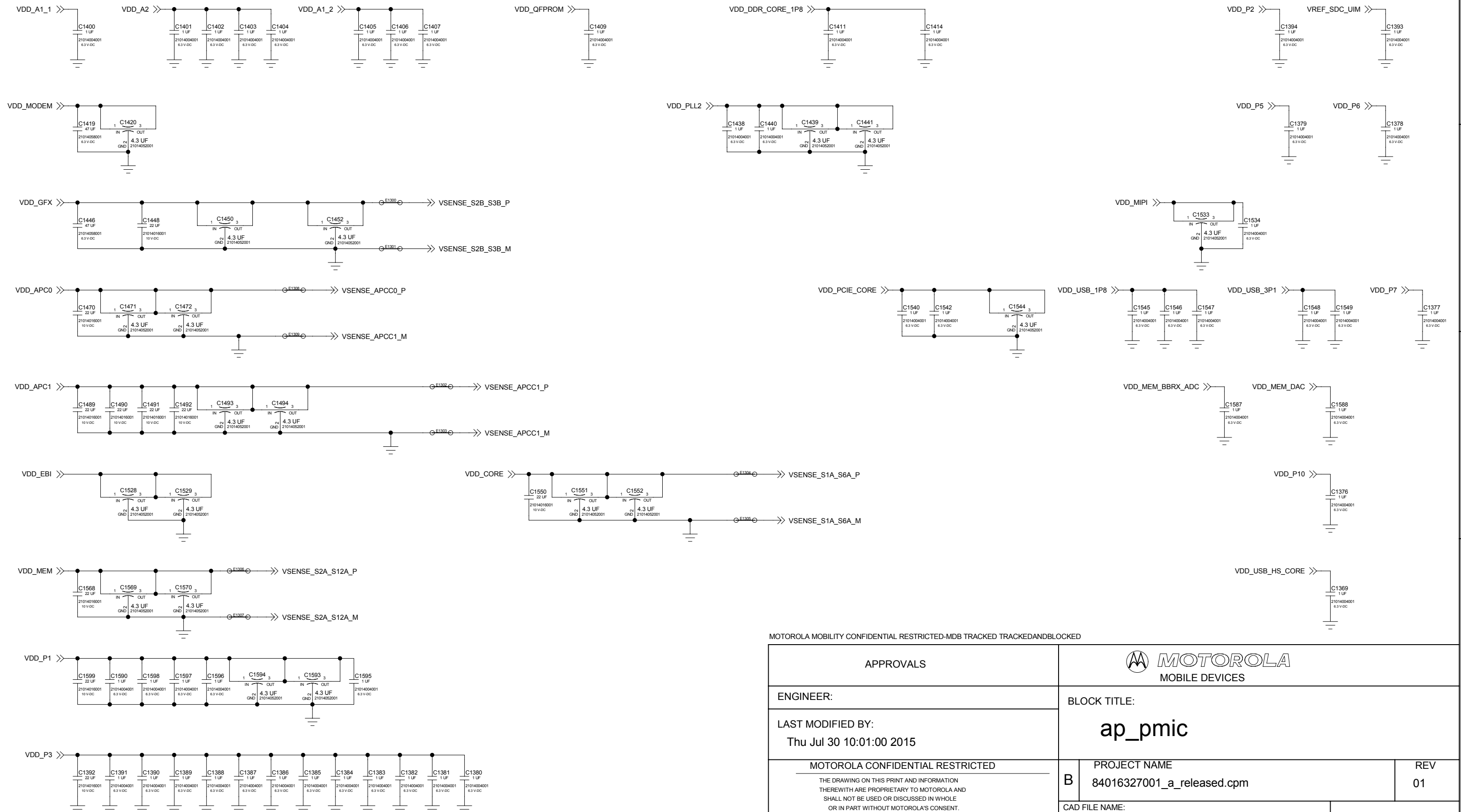


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:59 2015		<b>ap_pmic</b>	
MOTOROLA CONFIDENTIAL RESTRICTED THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 64 OF 76	




# MSM8994: BYPASS CAPS

REFDES: 1300-1599

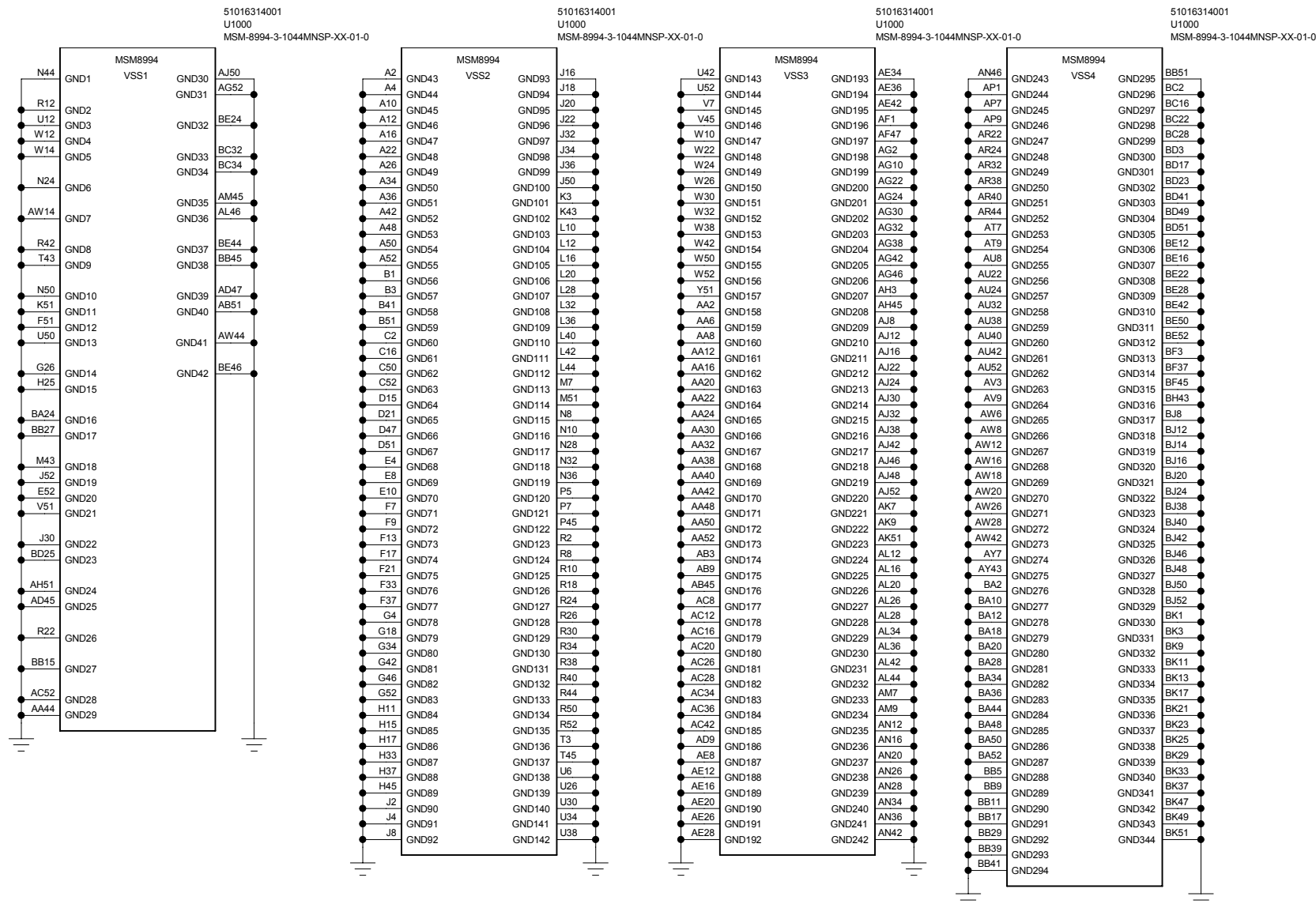


BASED ON 80-NJ051-41 REV. U

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:01:00 2015		ap_pmic	
MOTOROLA CONFIDENTIAL RESTRICTED		<b>B</b> PROJECT NAME 84016327001_a_released.cpm	REV 01
<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>			CAD FILE NAME:
		PAGE 65 OF 76	

# MSM8994: GND/NC



BASED ON 80-NJ051-41 REV. U

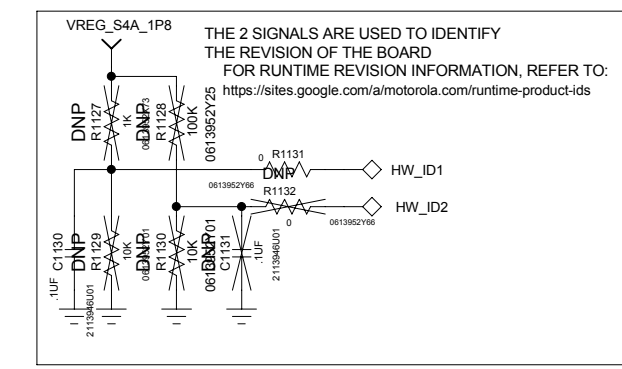
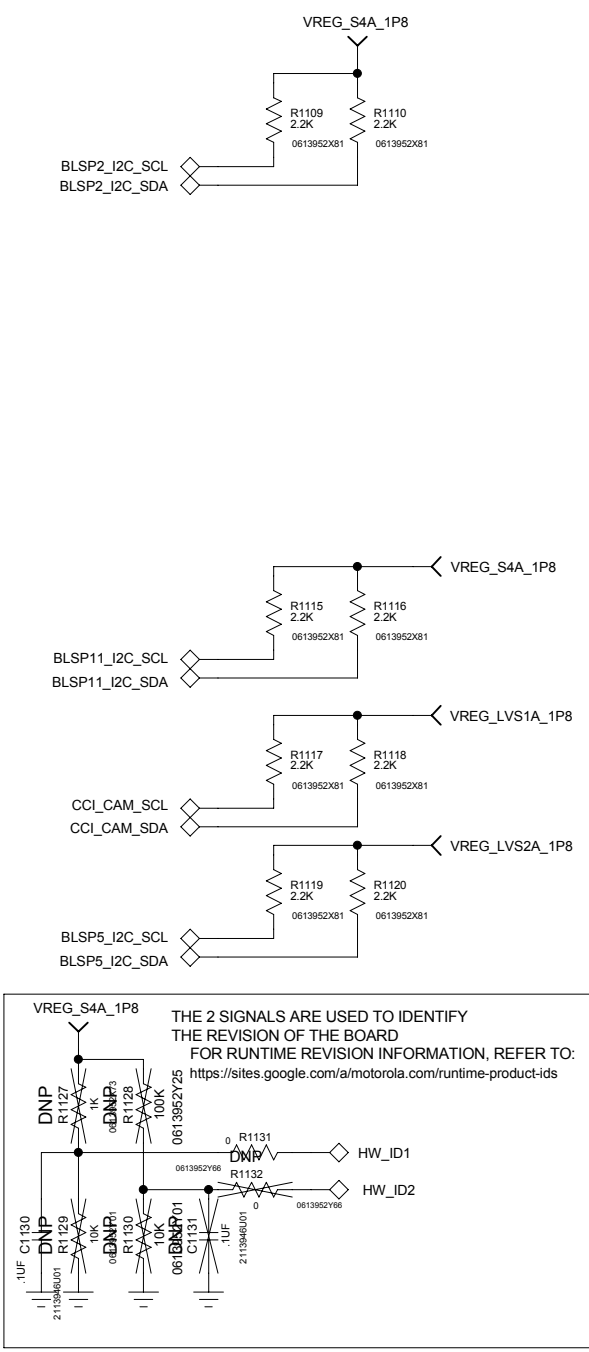
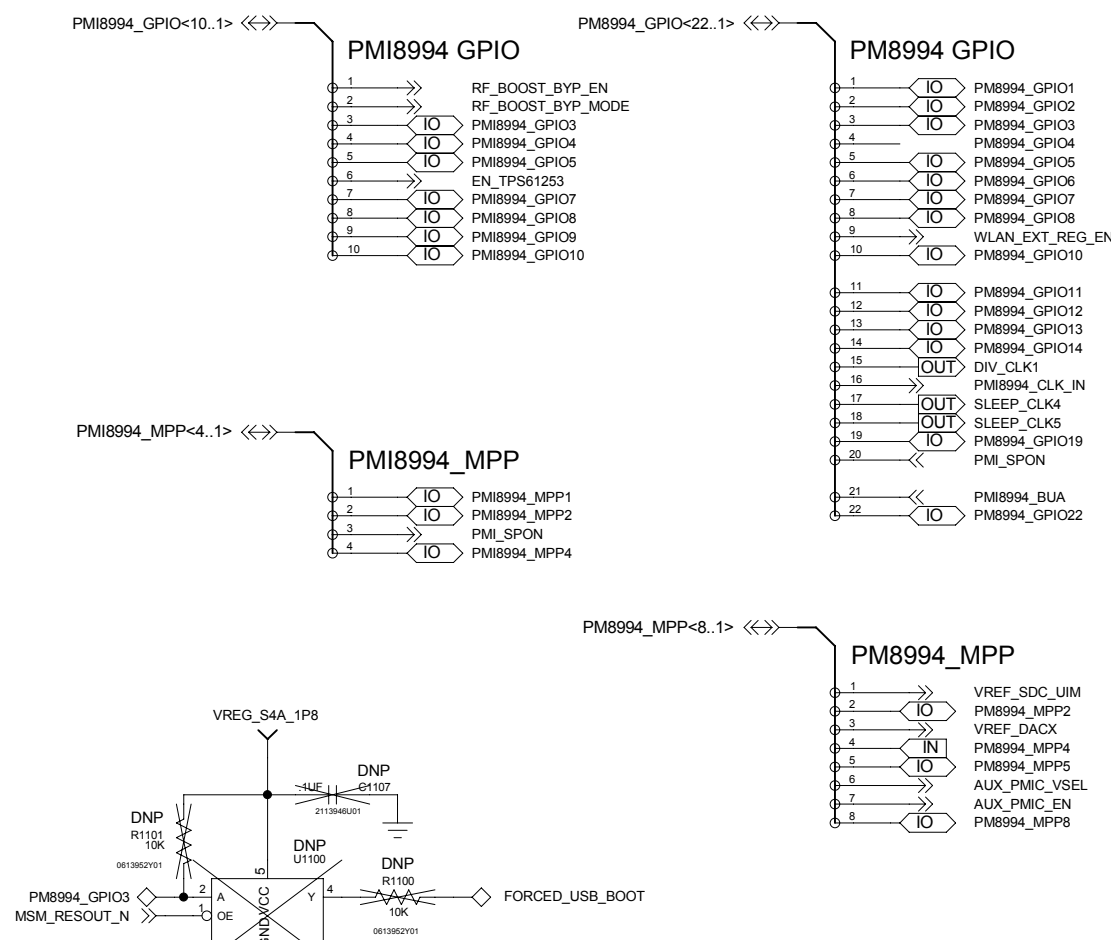
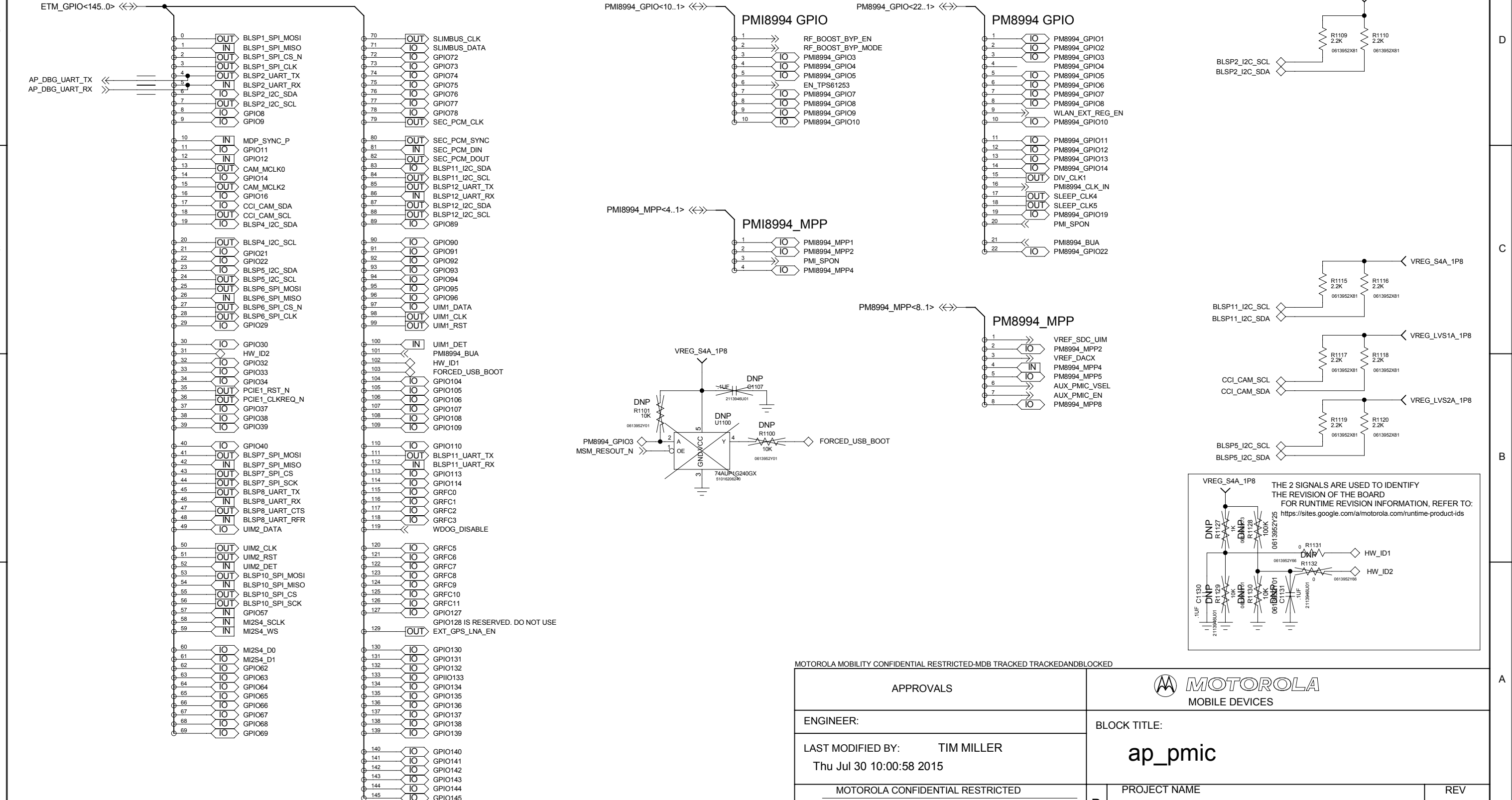
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:01:03 2015		ap_pmic	
MOTOROLA CONFIDENTIAL RESTRICTED		B PROJECT NAME 84016327001_a_released.cpm	REV 01
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			CAD FILE NAME:
		PAGE 66 OF 76	

# MSM8994: GPIO MAP

REFDES: 1100-1199

PURPLE=MOT CUSTOM  
CYAN=QCOM REFERENCE

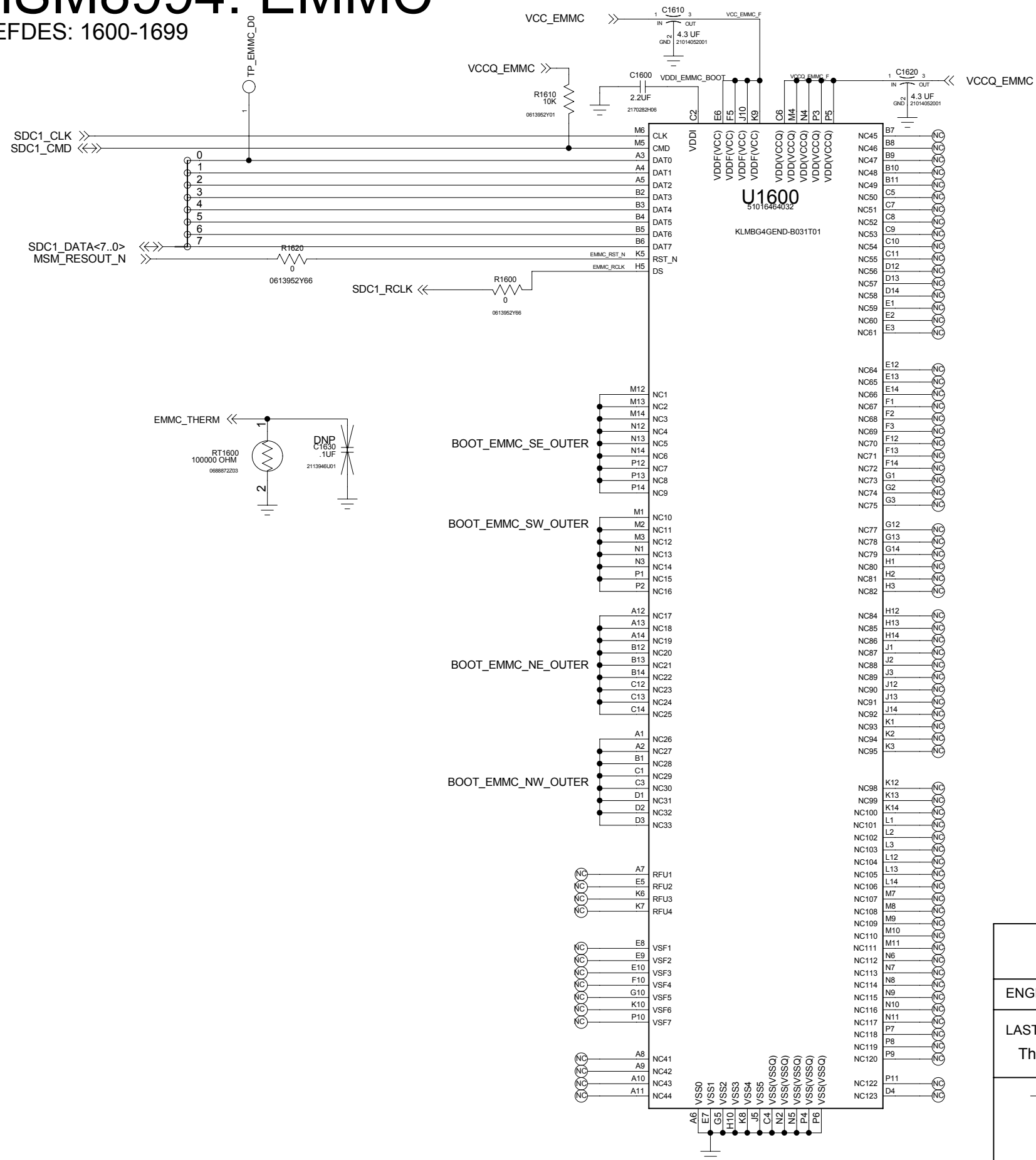


BASED ON 80-NJ051-41 REV. U


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: <b>TIM MILLER</b> Thu Jul 30 10:00:58 2015		<b>ap_pmic</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		<b>B</b> 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 67 OF 76	

# MSM8994: EMMC

REFDES: 1600-1699



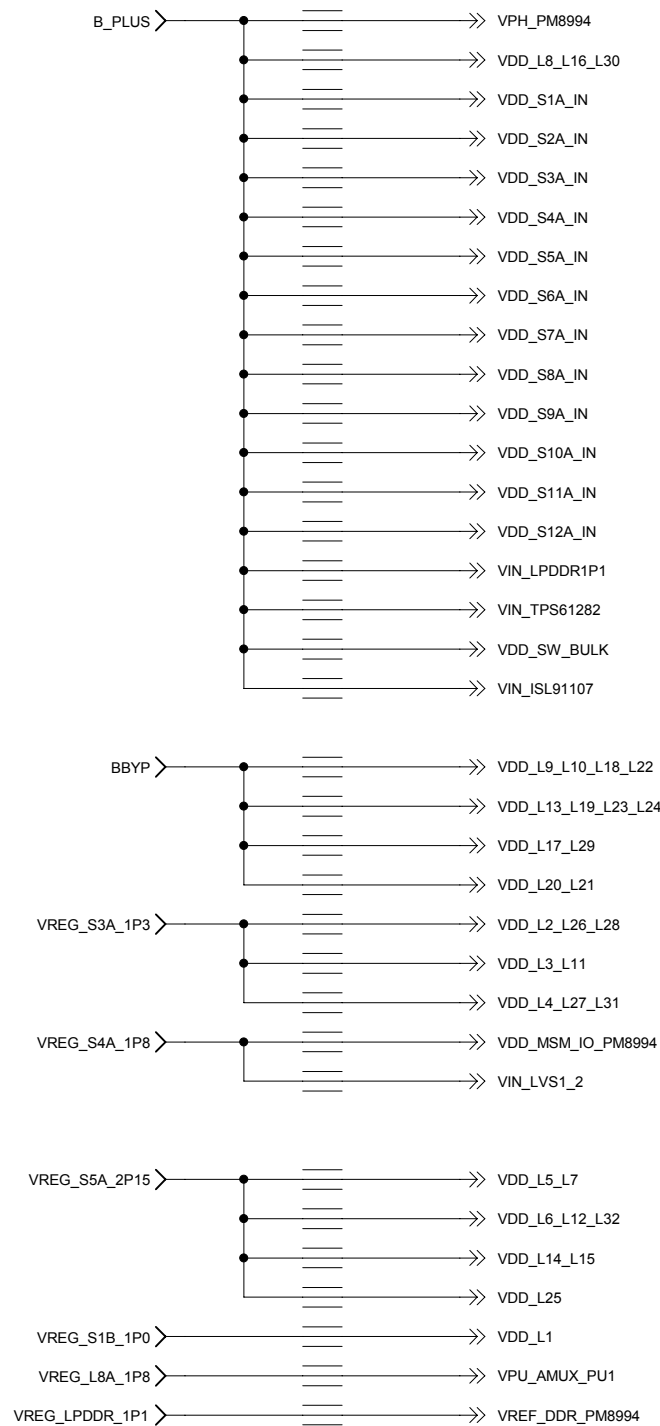
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:01:02 2015		<b>ap_pmic</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
<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>		84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 68 OF 76	

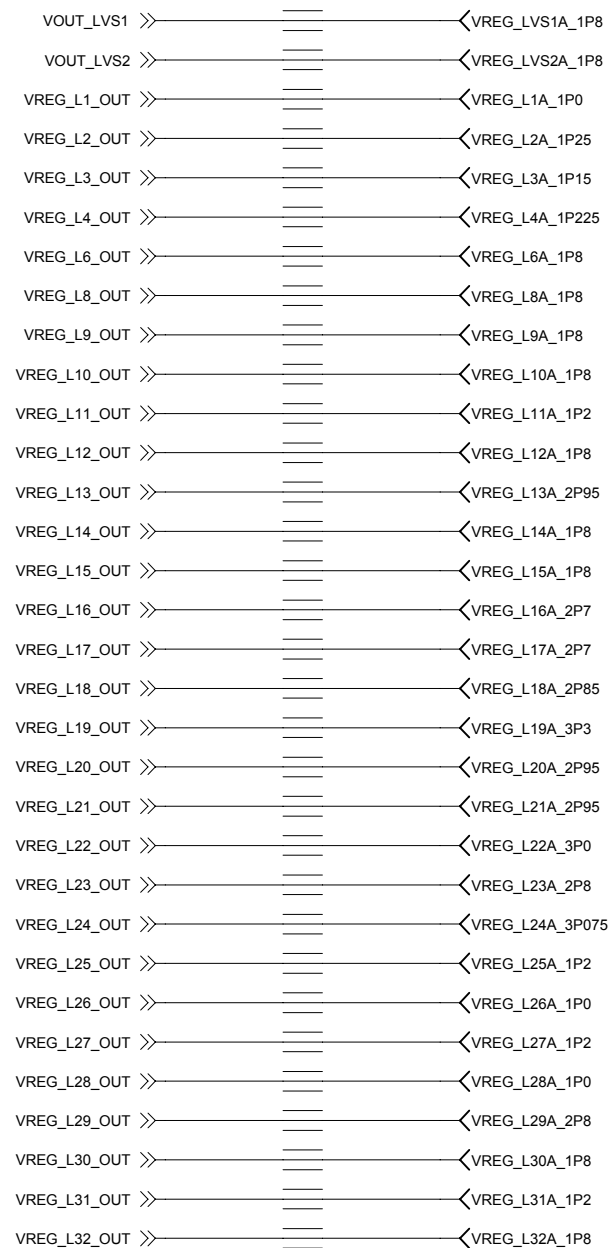
# PM8994: POWER

REFDES: 2300-2399

## INPUT POWER



## OUTPUT POWER



### APPROVALS

ENGINEER: NICK HACKETT

LAST MODIFIED BY: NICK HACKETT  
Fri May 15 09:09:42 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

ap\_pmic

PROJECT NAME  
84016327001\_a\_released.cpm

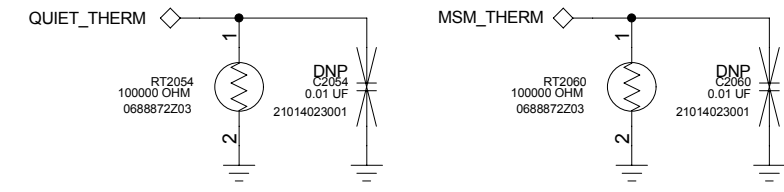
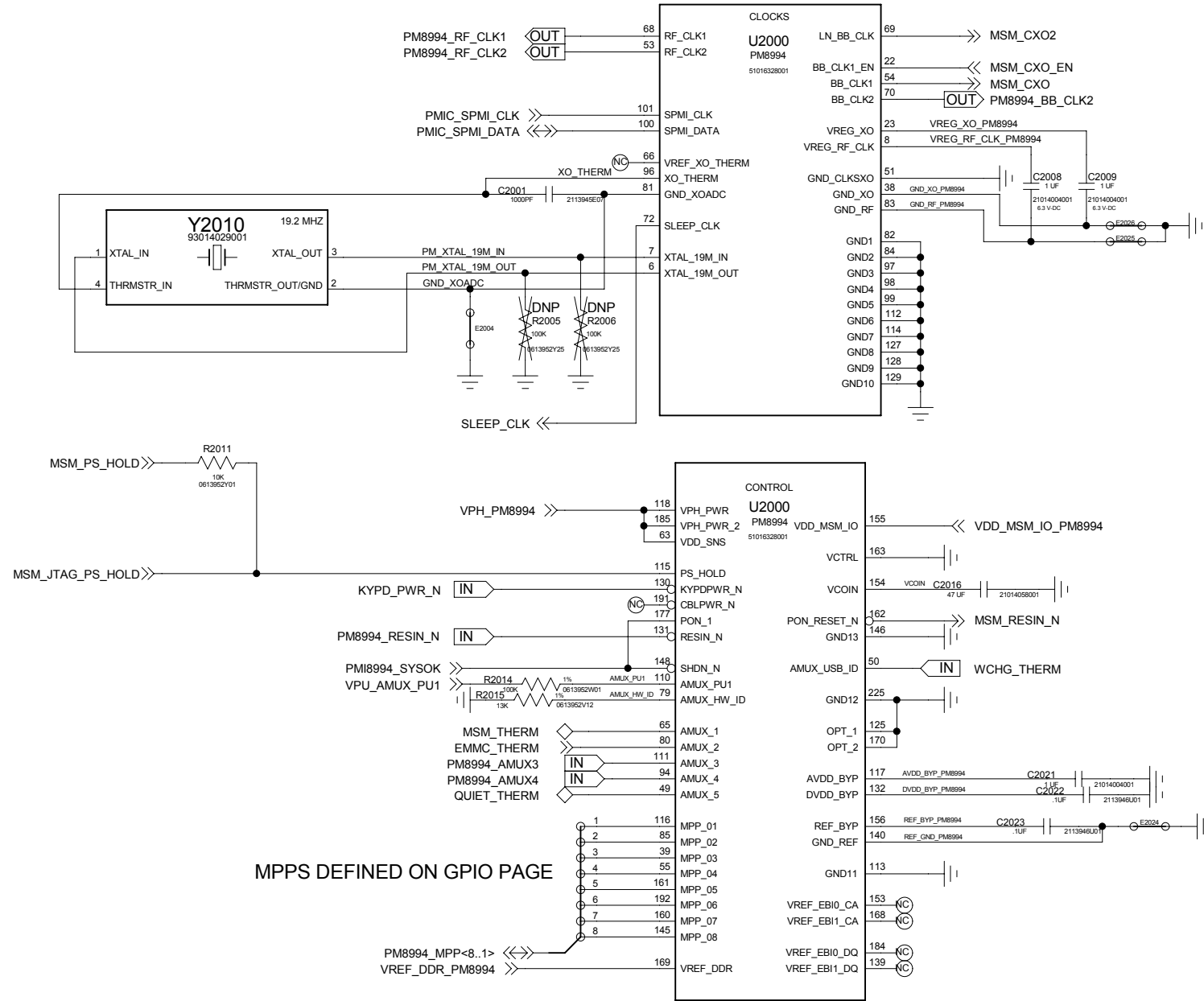
REV  
01

CAD FILE NAME:

PAGE 69 OF 76

# PM8994: CLK/CTRL/GPIO

REFDES: 2000-2099



MPPS DEFINED ON GPIO PAGE

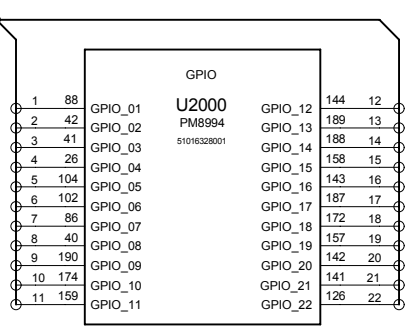
FOLLOW CRYSTAL OSCILLATOR PLACEMENT/LAYOUT INSTRUCTIONS IN QCOM DOCUMENT 80-N5423-5 (P. 221 IN REV G)

\*19.2MHZ CRYSTAL+THERMISTOR OPTIONS

PACKAGE	PART NUMBER
2520	93014012001
2016	93014029001

PM GPIOs DEFINED ON MSM GPIO PAGE

BASED ON 80-NJ051-41 REV. U

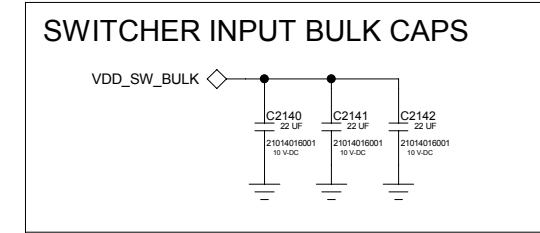
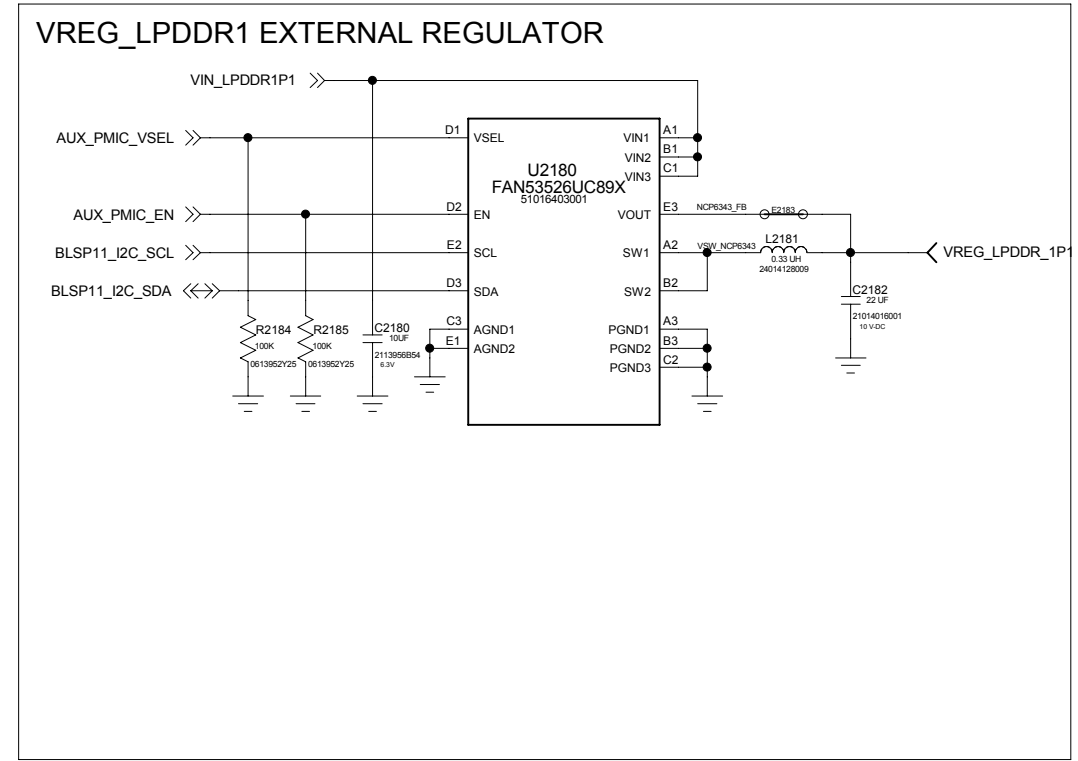
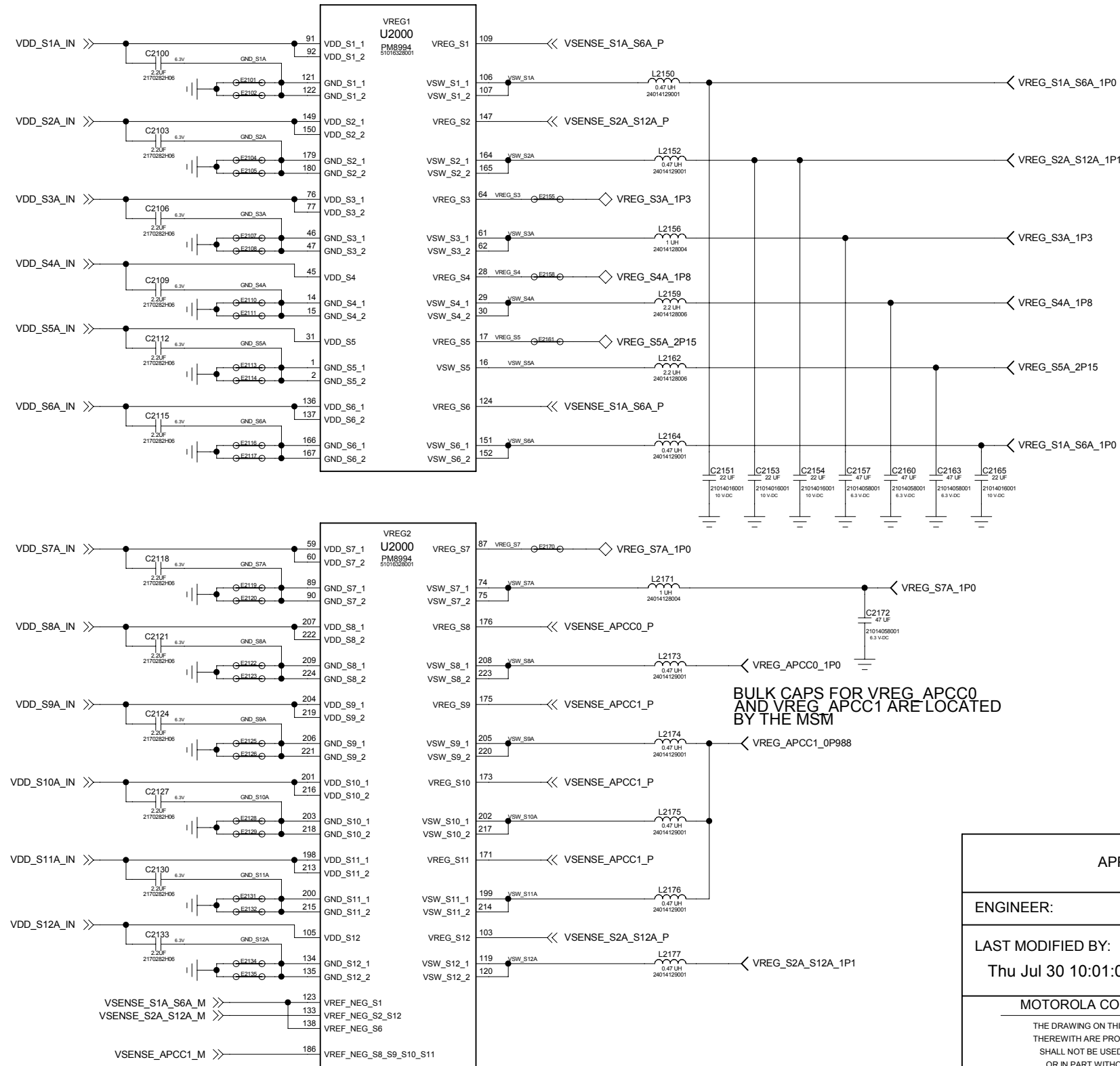


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS			
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 30 10:01:01 2015		<b>ap_pmic</b>	
MOTOROLA CONFIDENTIAL RESTRICTED 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		PROJECT NAME	REV
		B 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 70 OF 76	

# PM8994: SMPS

REFDES: 2100-2199



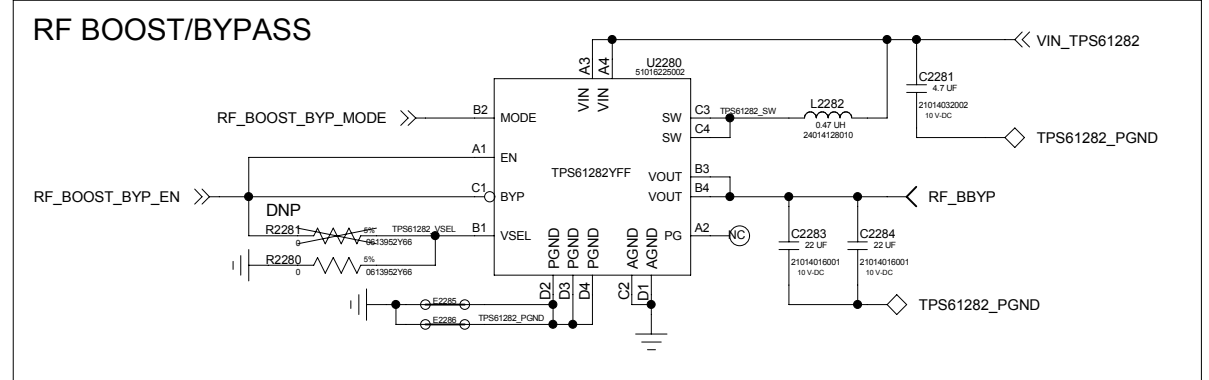
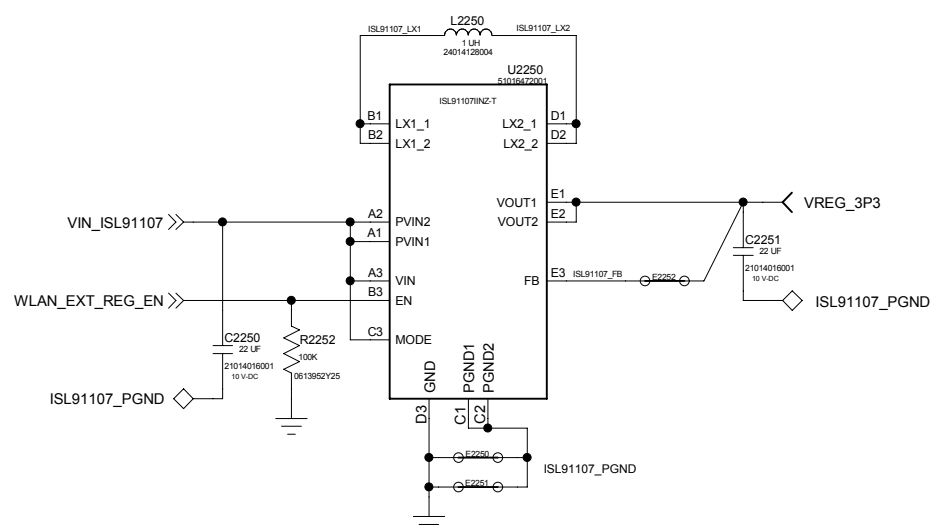
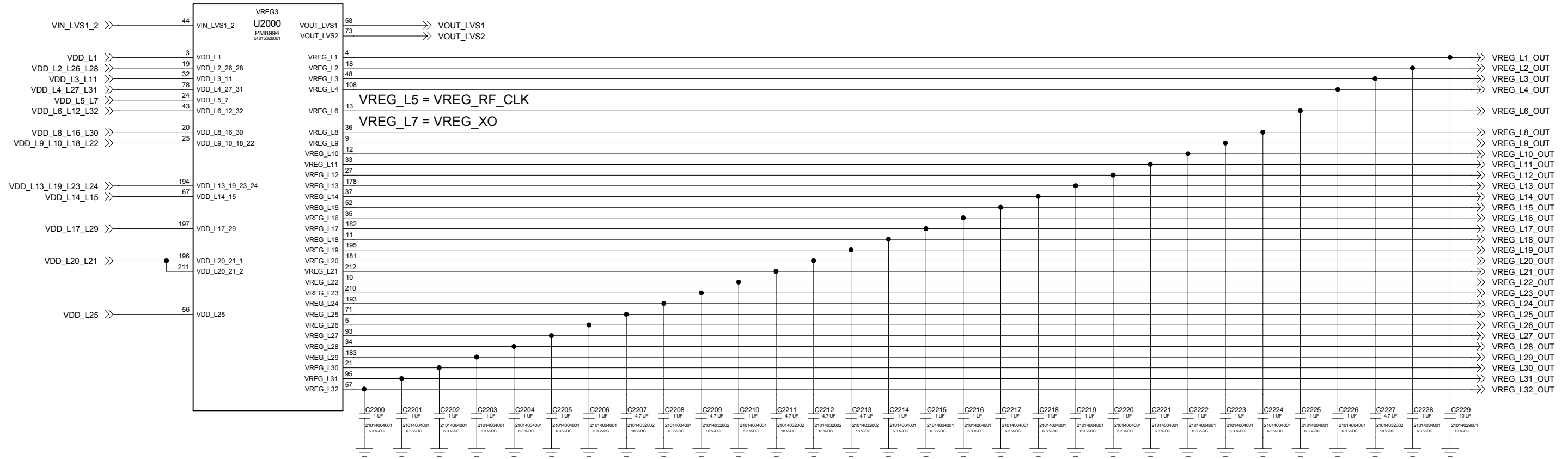
BASED ON 80-NJ051-41 REV. U

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		ap_pmic	
Thu Jul 30 10:01:01 2015		PROJECT NAME	REV
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>		<b>B</b> 84016327001_a_released.cpm	01
CAD FILE NAME:		PAGE 71 OF 76	

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

# PM8994: VREGS

REFDES: 2200-2299



BASED ON 80-NJ051-41 REV. U

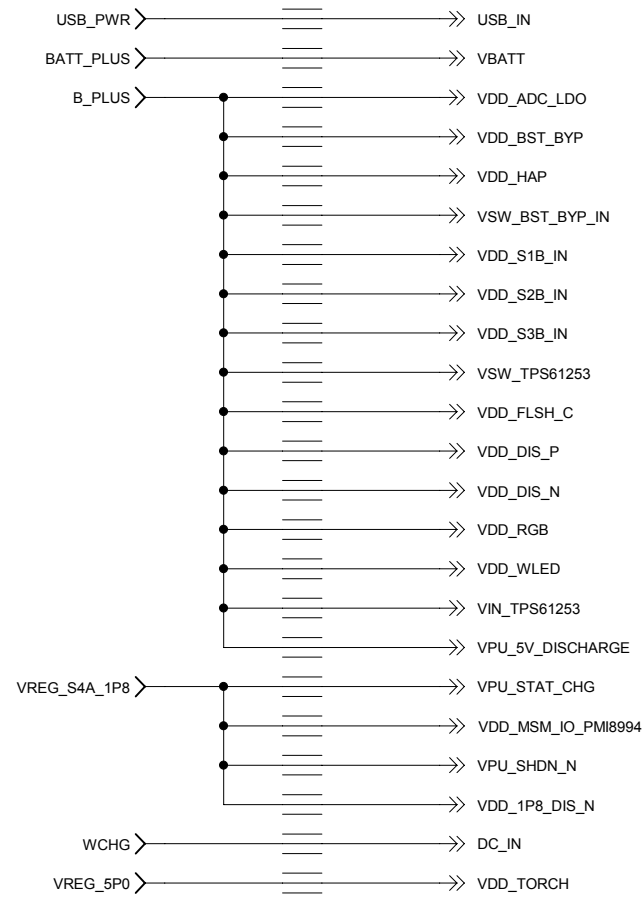
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED			
APPROVALS		BLOCK TITLE:	
ENGINEER:		ap_pmic	
LAST MODIFIED BY: Thu Jul 30 10:01:06 2015		PROJECT NAME	
MOTOROLA CONFIDENTIAL RESTRICTED		B 84016327001_a_released.cpm	REV 01
<small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH 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>		CAD FILE NAME:	PAGE 72 OF 76



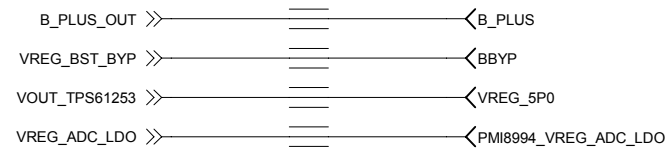
# PMI8994: POWER

REFDES: 2400-2499

## INPUT POWER



## OUTPUT POWER



### APPROVALS

ENGINEER: NICK HACKETT

LAST MODIFIED BY: NICK HACKETT  
Fri May 15 09:09:46 2015

MOTOROLA CONFIDENTIAL RESTRICTED

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



BLOCK TITLE:

ap\_pmic

PROJECT NAME  
84016327001\_a\_released.cpm

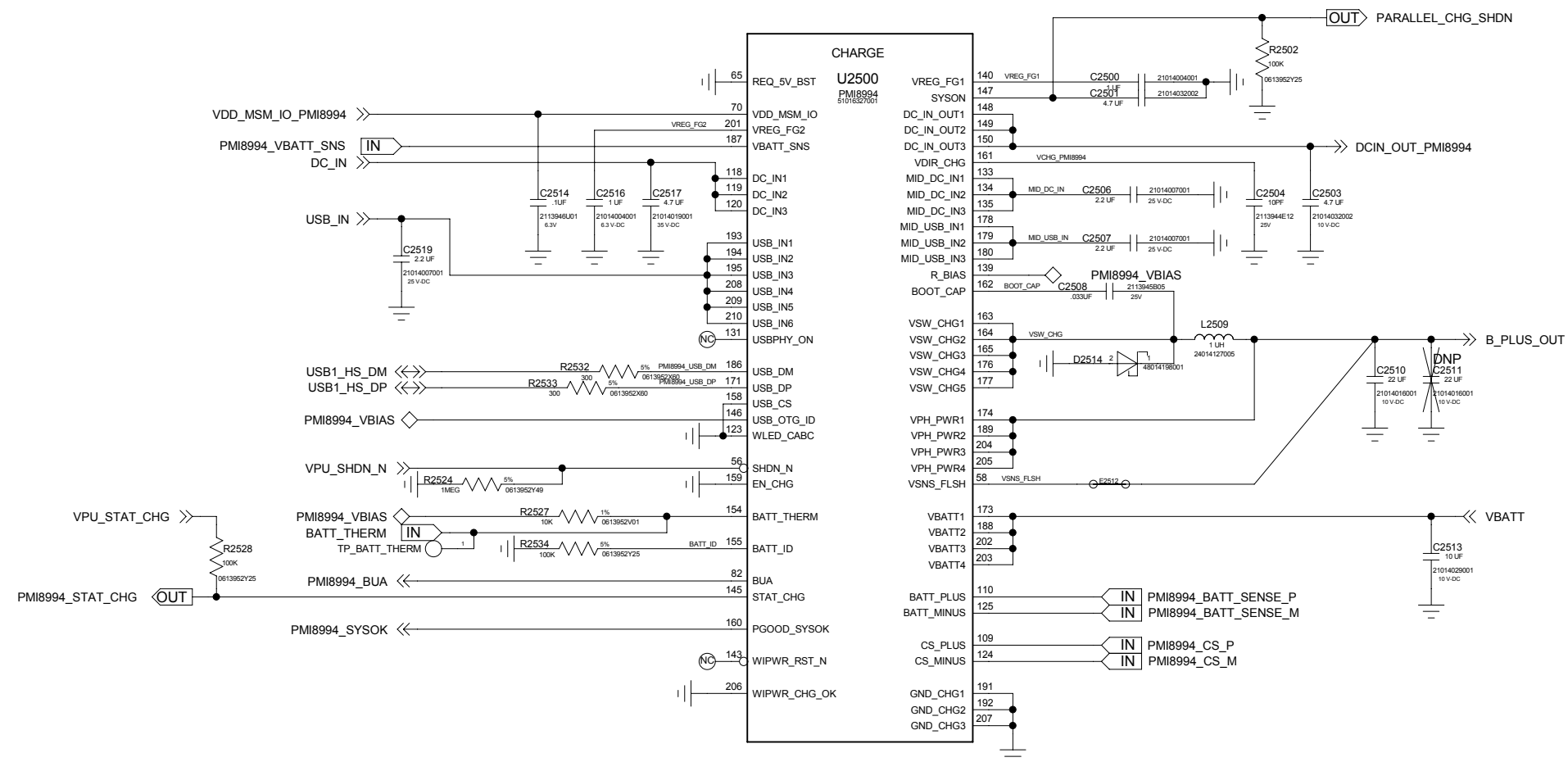
REV  
01


CAD FILE NAME:

PAGE 73 OF 76

# PMI8994: CHG/USB

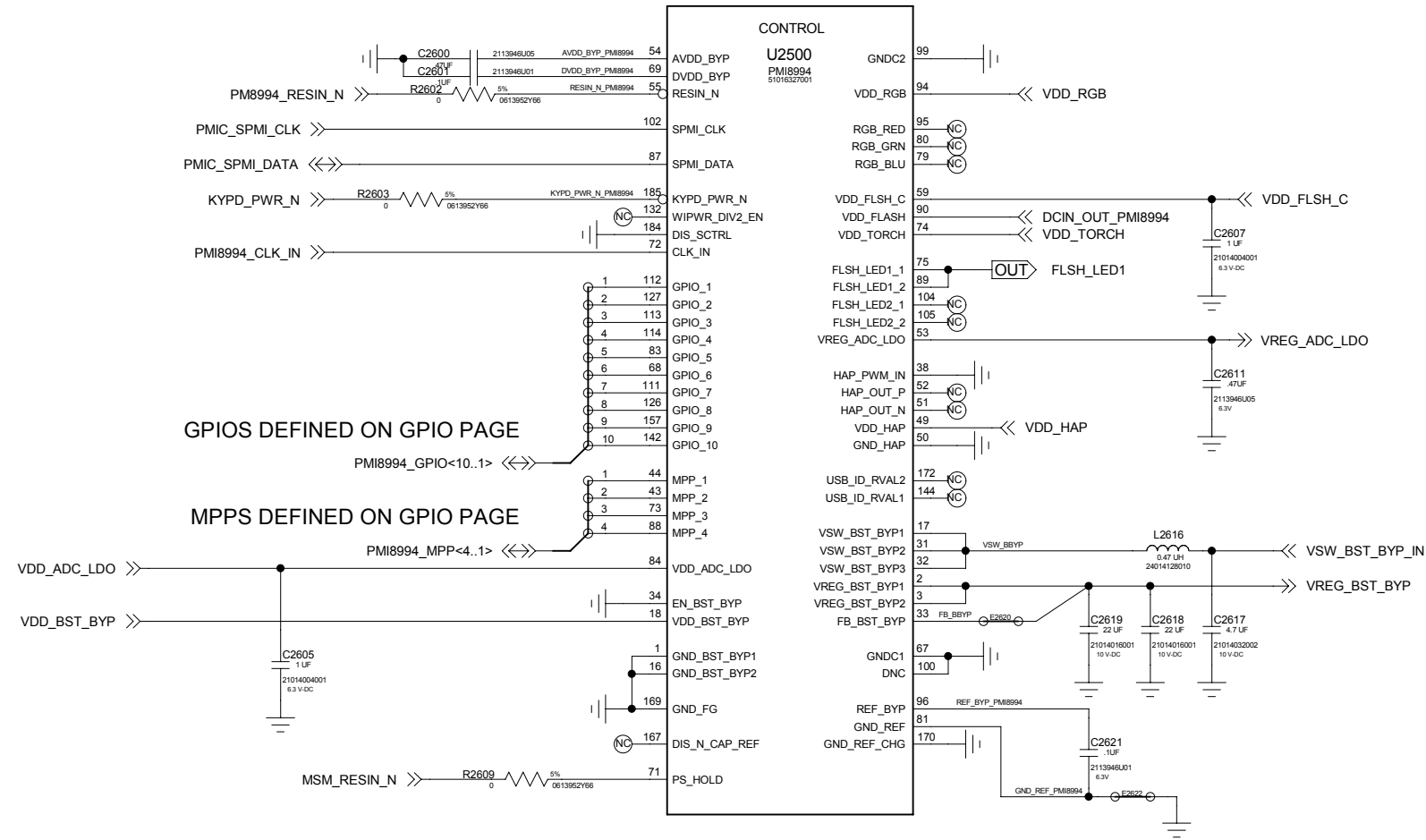
REFDES: 2500-2599




APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:01:05 2015		ap_pmic	
MOTOROLA CONFIDENTIAL RESTRICTED		B PROJECT NAME 84016327001_a_released.cpm	REV 01
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			CAD FILE NAME:
		PAGE 74 OF 76	

# PMI8994: GPIO/LED/RGB

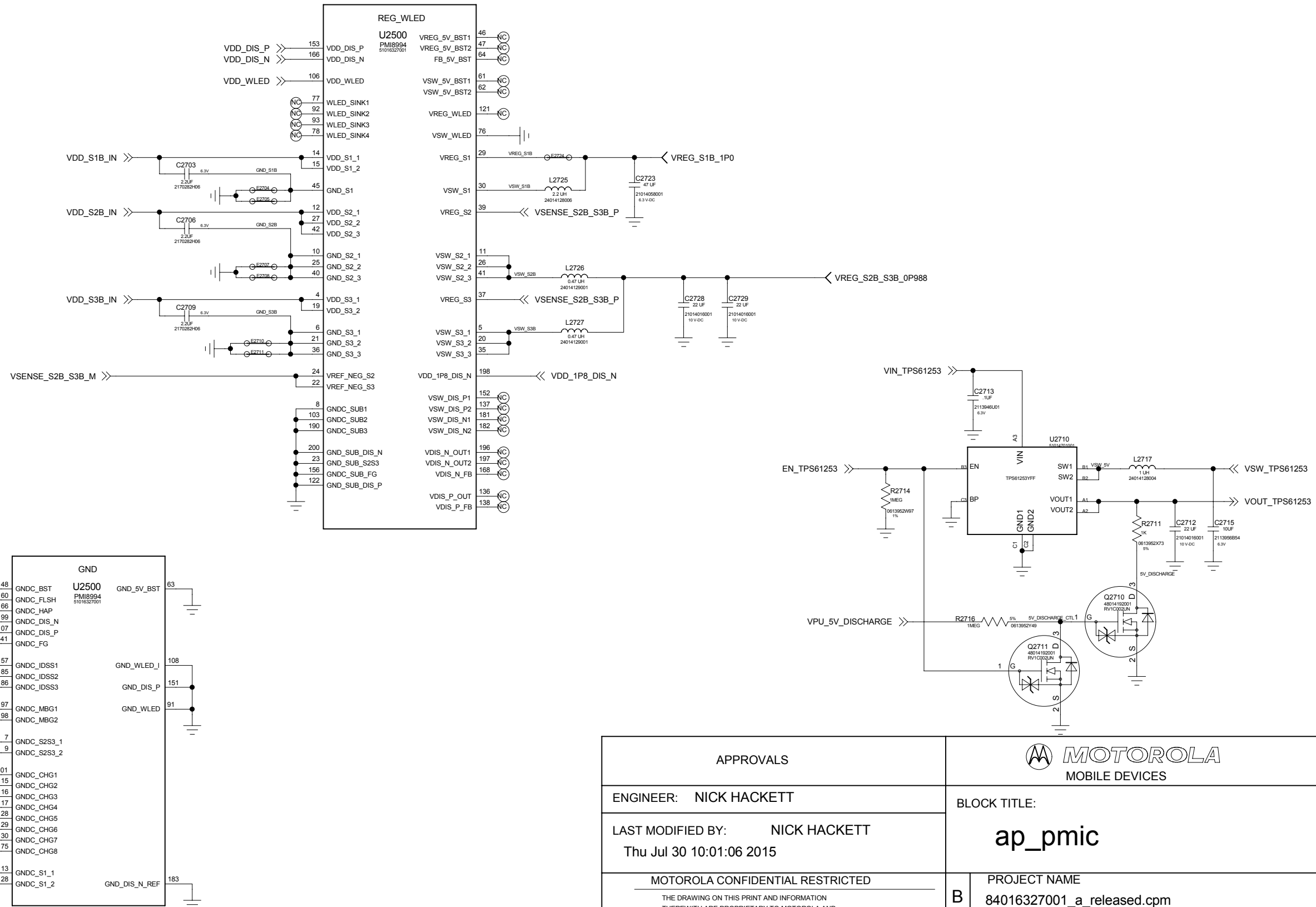
REFDES: 2600-2699



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Jul 30 10:00:59 2015		ap_pmic	
MOTOROLA CONFIDENTIAL RESTRICTED		B PROJECT NAME 84016327001_a_released.cpm	REV 01
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			CAD FILE NAME: PAGE 75 OF 76

# PMI8994: REF/WLED/GND

REFDES: 2700-2799



BASED ON 80-NJ051-41 REV. U

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER: NICK HACKETT		BLOCK TITLE:	
LAST MODIFIED BY: NICK HACKETT Thu Jul 30 10:01:06 2015		<b>ap_pmic</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		B 84016327001_a_released.cpm	01
		CAD FILE NAME:	PAGE 76 OF 76