

X+2 SYSTEM 5.0

IMAGERS

AP_PMIC

BLK_WTR3925

RFFE_CA+DSDA

DISPLAY

AUDIO_FE

XMCS

SLICE_IF

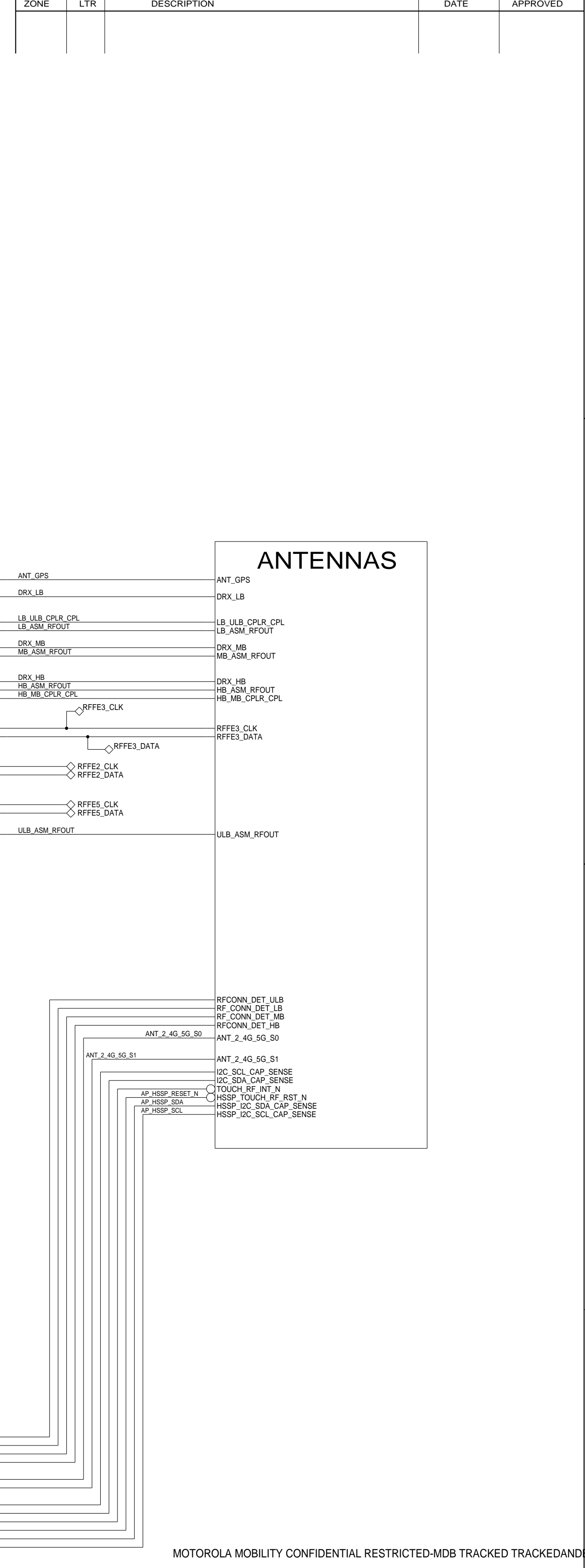
USER_INPUT

POWER

CONNECTIVITY

ANTENNAS

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



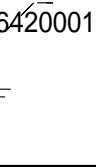
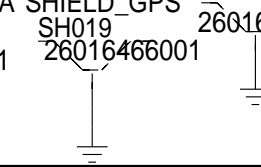
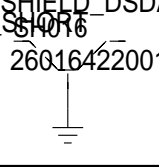
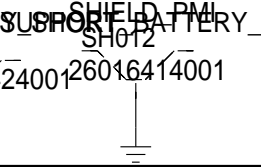
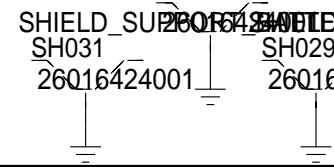
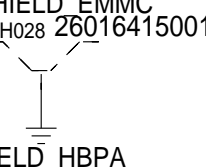
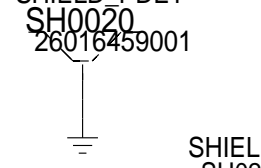
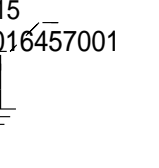
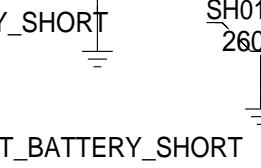
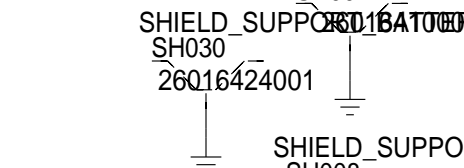
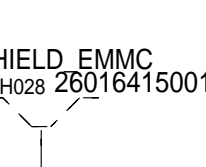
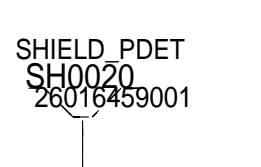
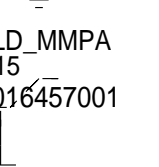
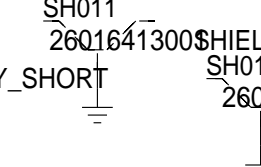
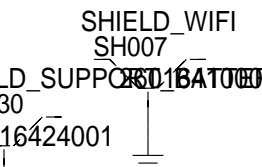
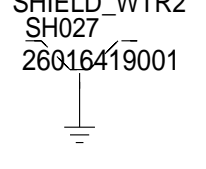
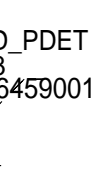
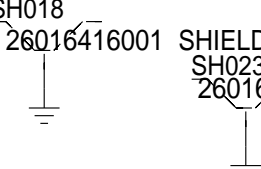
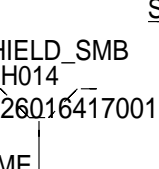
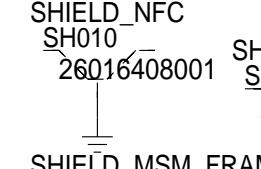
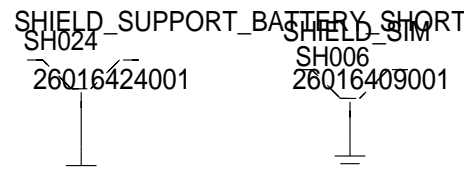
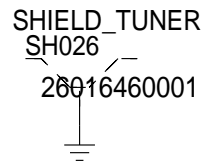
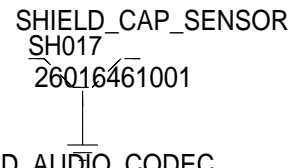
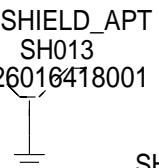
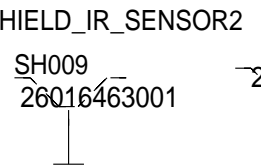
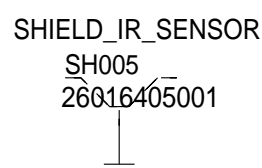
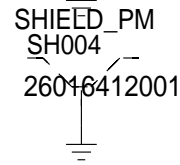
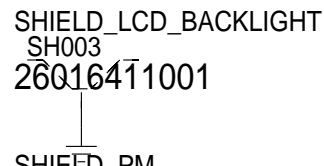
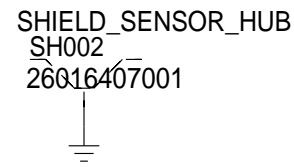
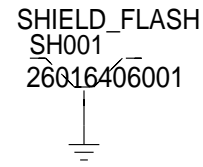
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ENGINEER: MOTOROLA MOBILITY	LAST MODIFIED BY: NATE CONNELL	BLOCK TITLE: 84016440001_b	REV: 01
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME: 84016440001_b.cpm	CAD FILE NAME:
THE DRAWING ON THIS PRINT AND INFORMATION THEREON ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCLOSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA, THIS DOES NOT IMPLY PUBLICATION		PAGE 1 OF 78	

X+2 ME/SHIELDS

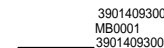
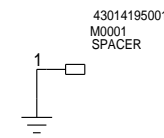
BUNKER HILL REFERENCE DESIGNATOR RANGES BY BLOCK

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

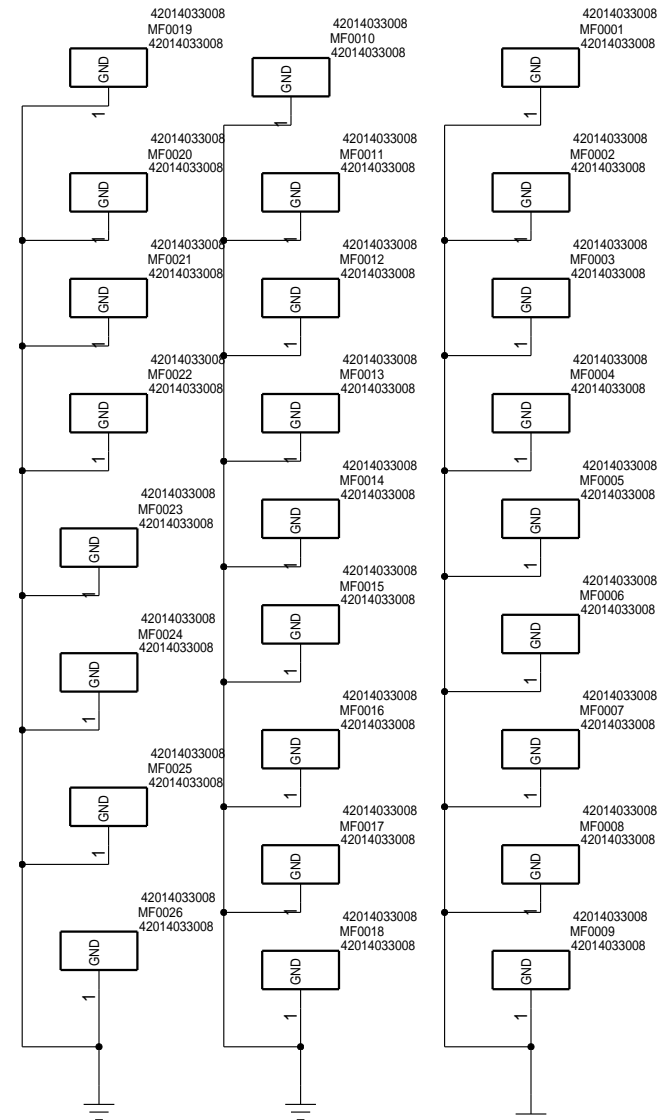
- 4000-4499: CONNECTIVITY
- 4500-4999: AUDIO FE
- 5000-5499: DISPLAY
- 5500-5999: CAMERA
- 6000-6999: XMCS
- 7000-8999: RFFE
- 9000-9999: PRODUCT-SPECIFIC (FILTERING, 100PF CAPS)



SMT NUT



GROUND BETWEEN PCB AND ENDO



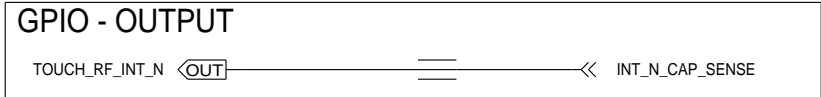
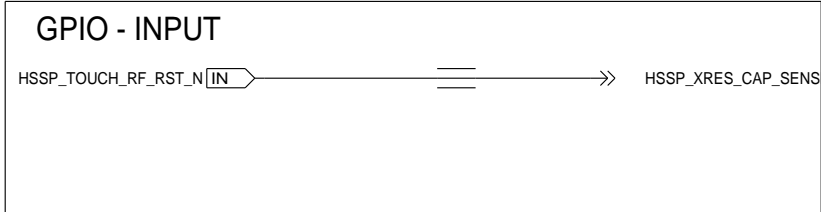
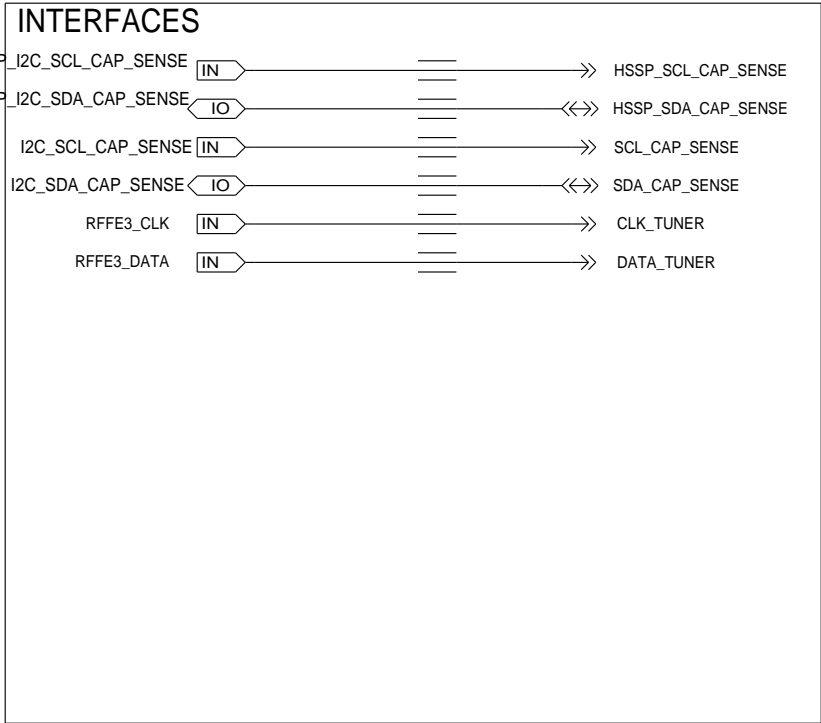
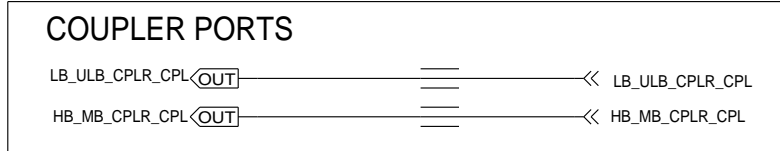
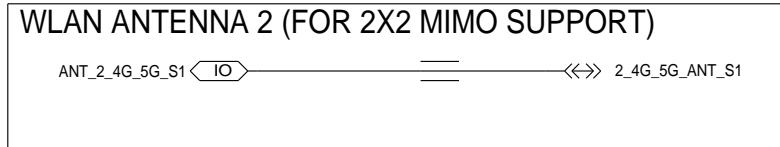
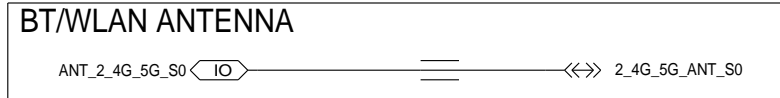
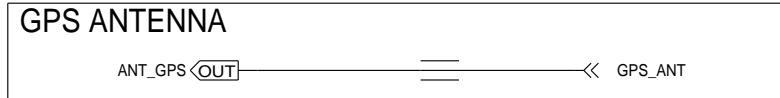
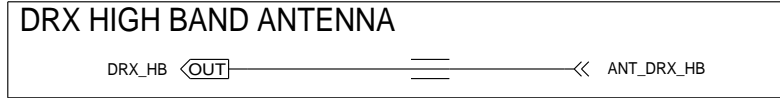
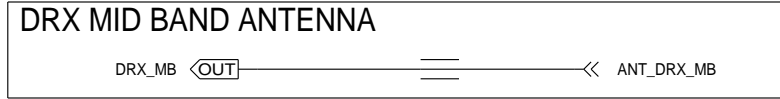
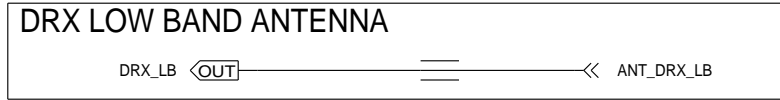
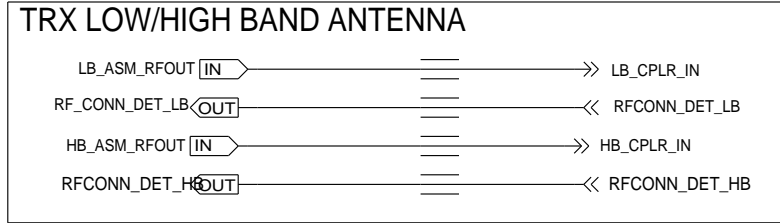
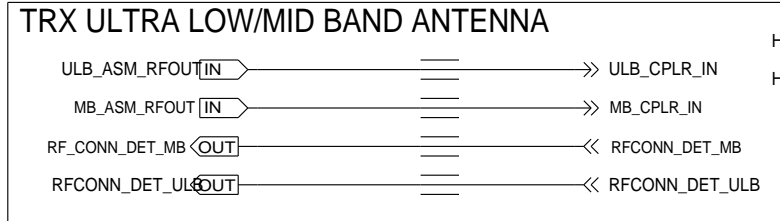
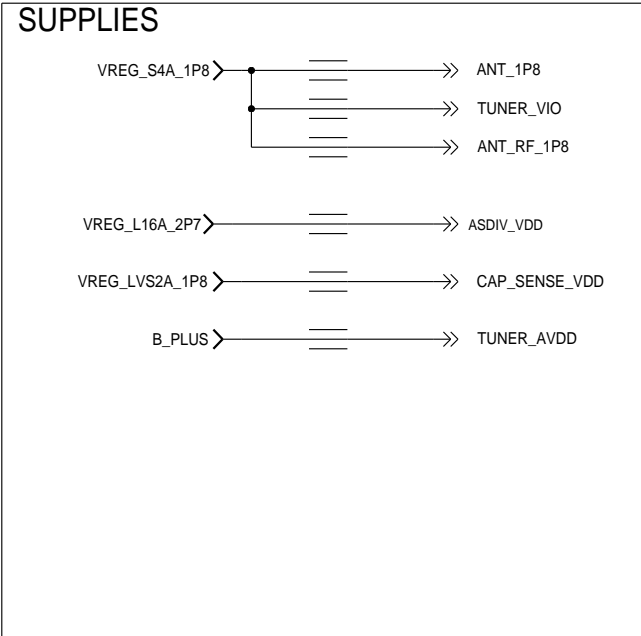
GROUND BETWEEN PCB AND METAL FLOOR

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: 84016440001_b	
LAST MODIFIED BY: Wed Jun 10 14:33:05 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_b.cpm	REV 01
		CAD FILE NAME: PAGE 2 OF 78	

ANT: PORTS

REFDES: 000 - 499



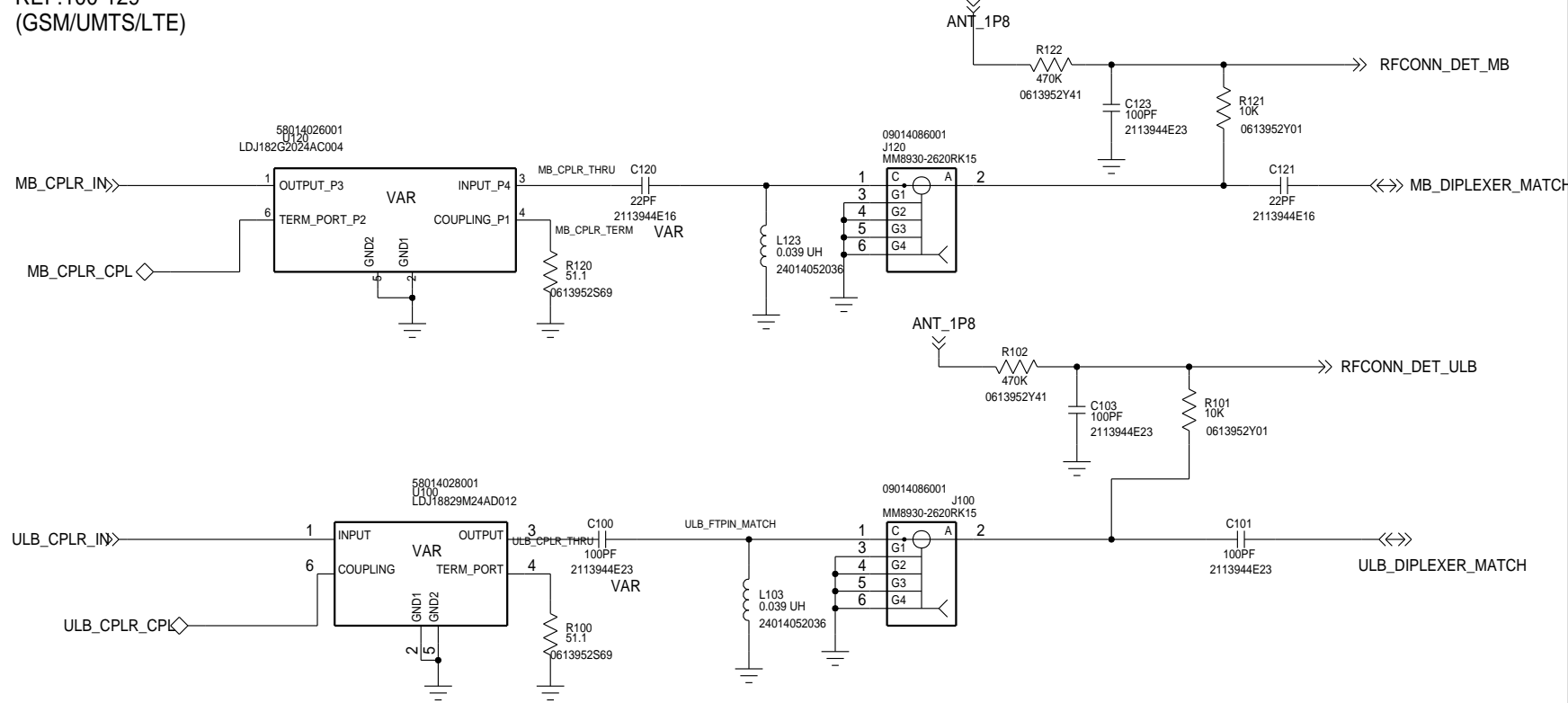
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:57 2015		antennas	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016440001_b.cpm	REV 01
		CAD FILE NAME:	
		PAGE 3 OF 78	

ANT: ANTENNAS

REFDES: 100 - 199

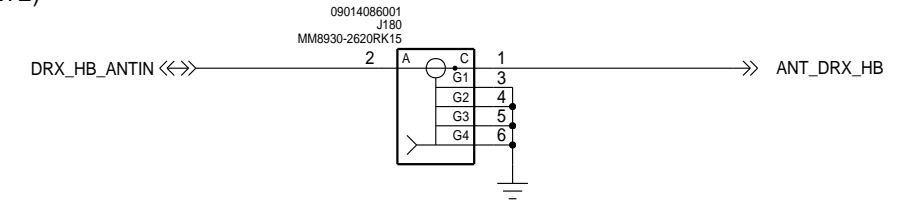
TRX ULTRA LOW/ MID BAND ANTENNA - ASM2

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



DRX HIGH BAND ANTENNA

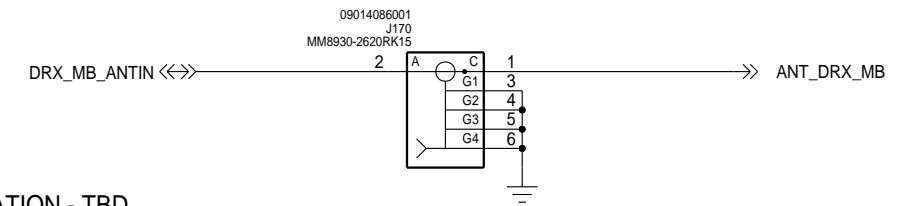
REF:180-189
(GSM/UMTS/LTE)



DEVICE LOCATION - TBD

DRX MID BAND ANTENNA

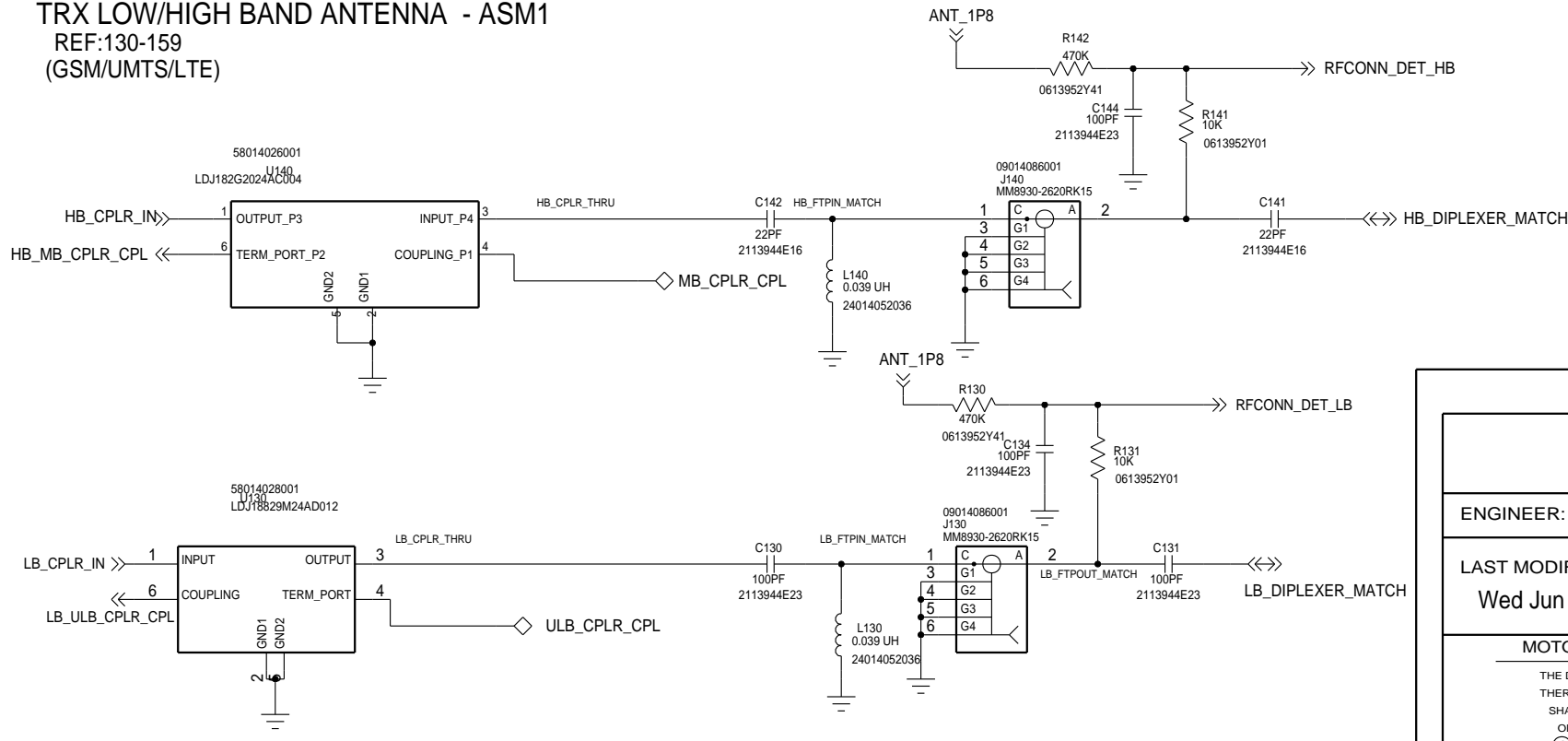
REF:170-179
(GSM/UMTS/LTE)



DEVICE LOCATION - TBD

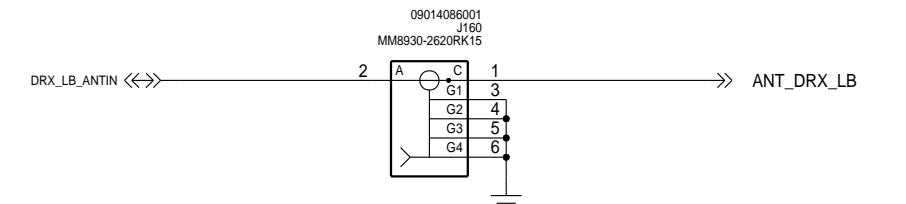
TRX LOW/HIGH BAND ANTENNA - ASM1

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



DRX LOW BAND ANTENNA

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



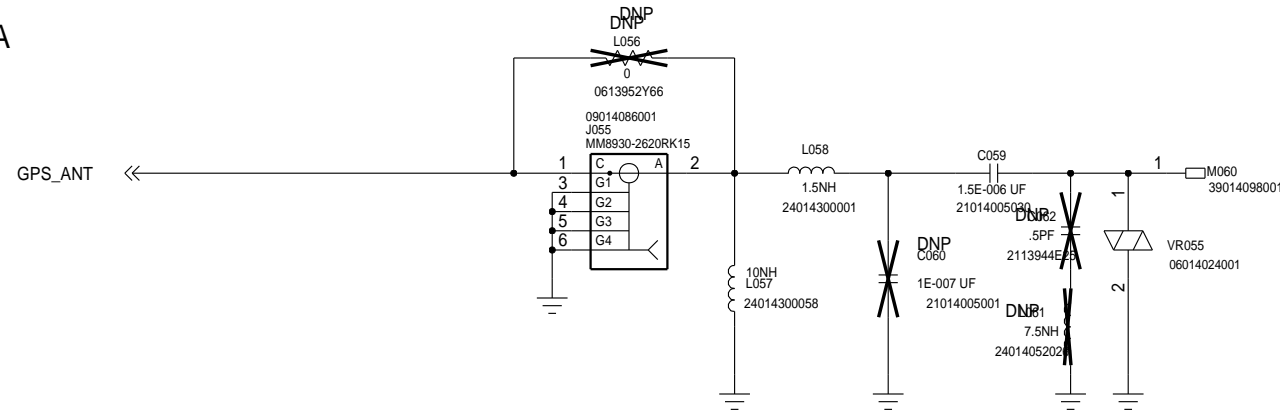
DEVICE LOCATION - TBD

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: antennas	
LAST MODIFIED BY: MOTOROLA Wed Jun 10 14:32:58 2015		PROJECT NAME B 84016440001_b.cpm	REV 01
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ANT: GPS/WLAN ANTENNAS

GPS ANTENNA
REF: 055-069



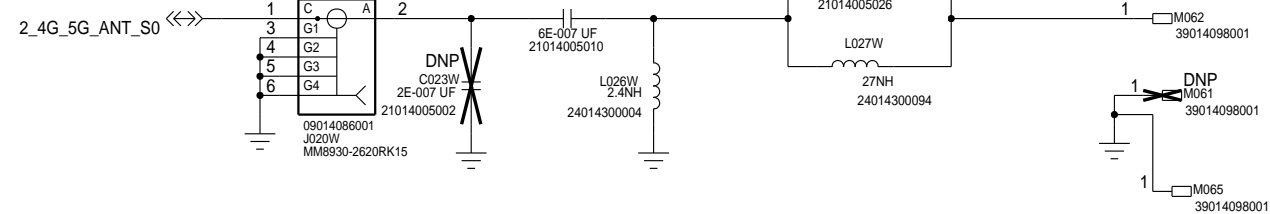
LOCATION - TBD

WLAN CHAIN1 ANTENNA

REF: 060-85

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

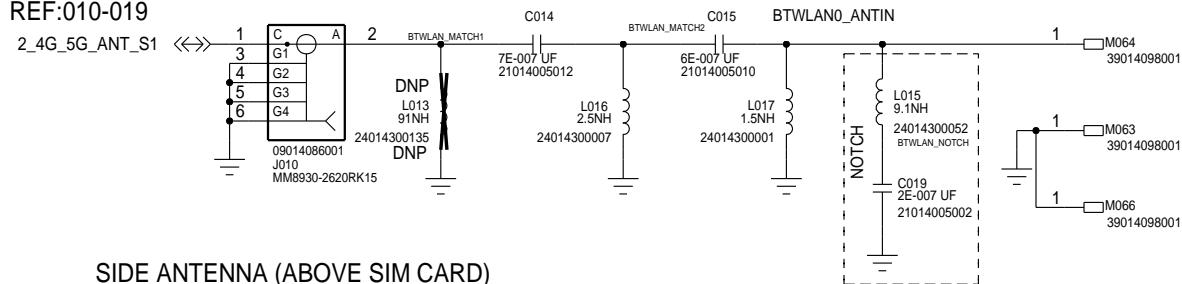
REF:020W-029W



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)

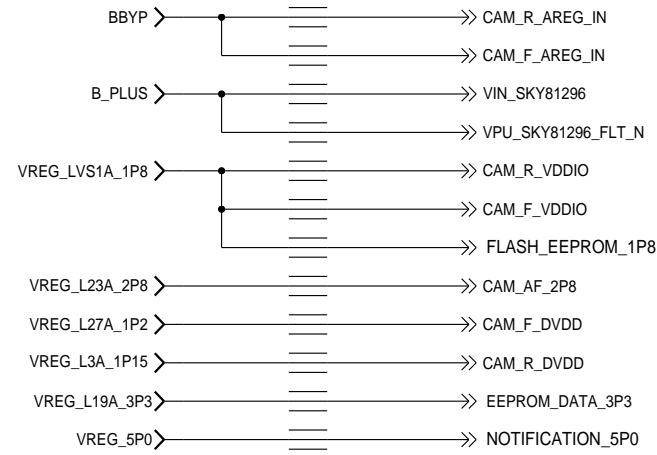
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Wed Jun 10 14:33:00 2015		antennas	
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 5 OF 78	

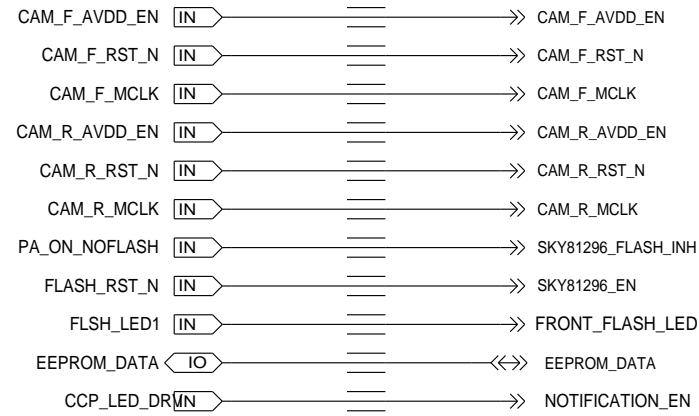
CAM: PORTS

REF 5500-5999

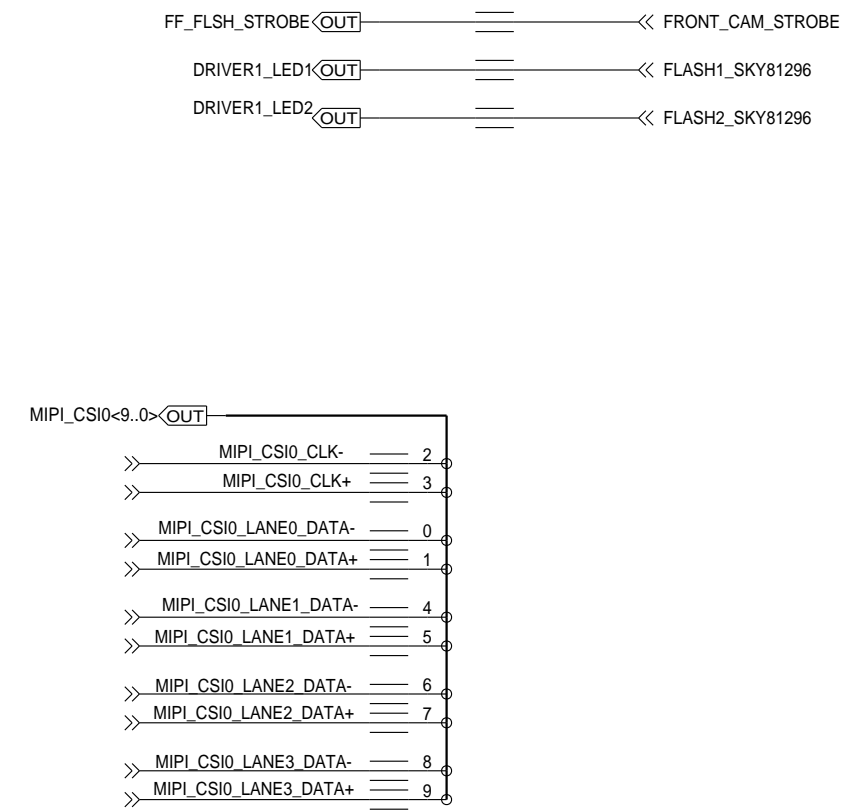
SUPPLIES



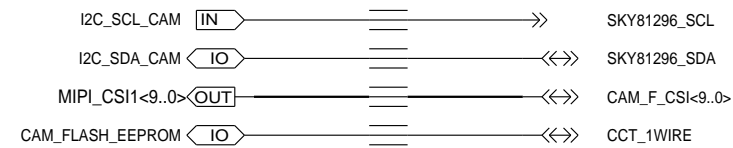
INPUTS



OUTPUTS



INTERFACES



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
Wed Jun 10 14:32:53 2015

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BLOCK TITLE:

imagers

PROJECT NAME
B 84016440001_b.cpm

REV
01

CAD FILE NAME:

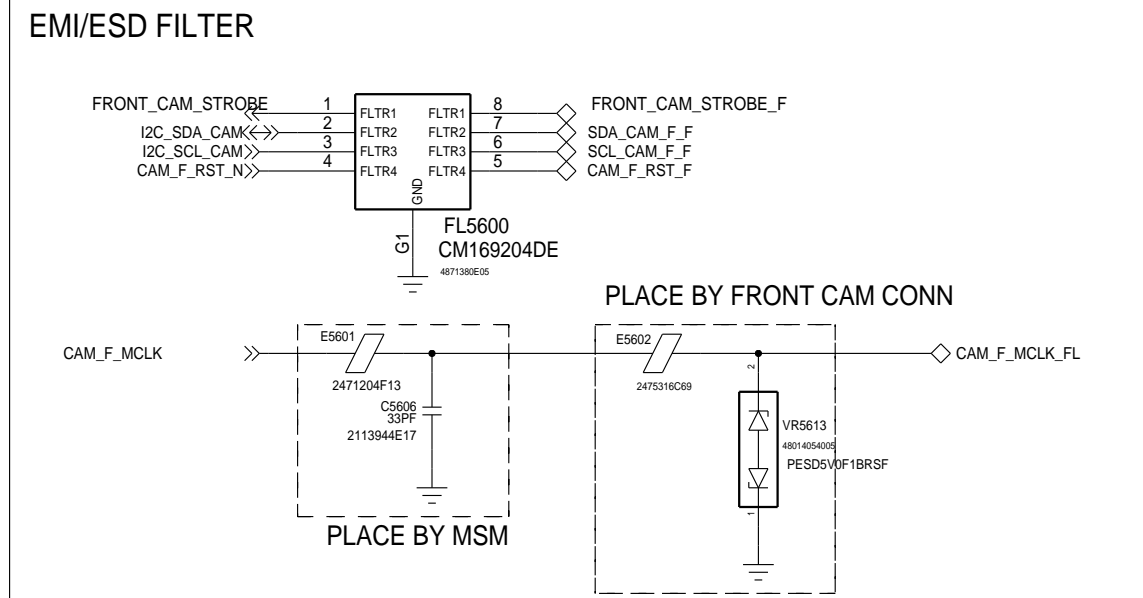
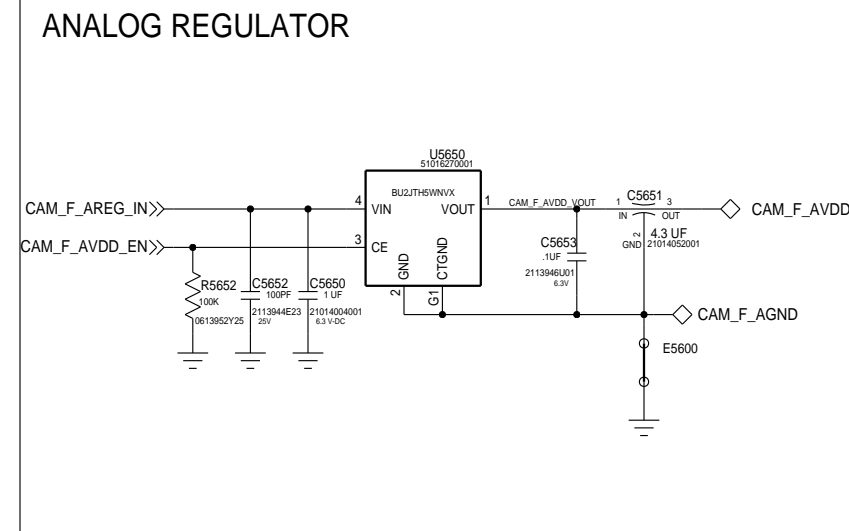
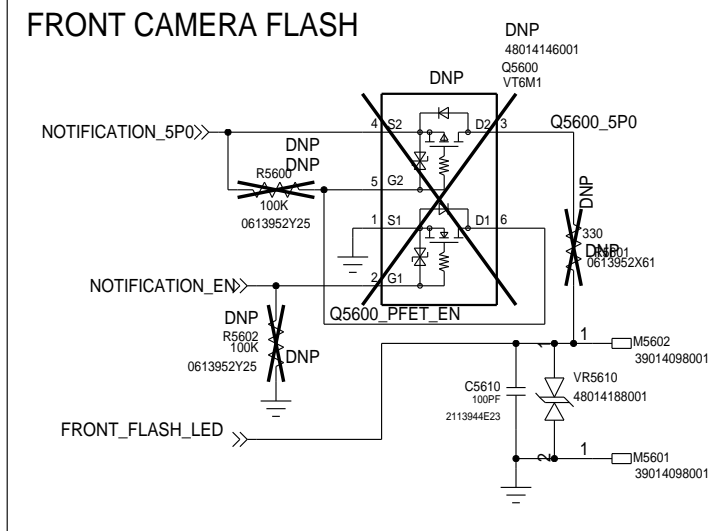
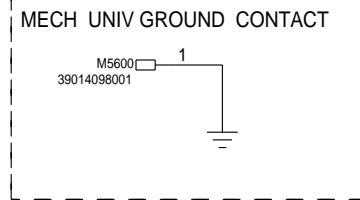
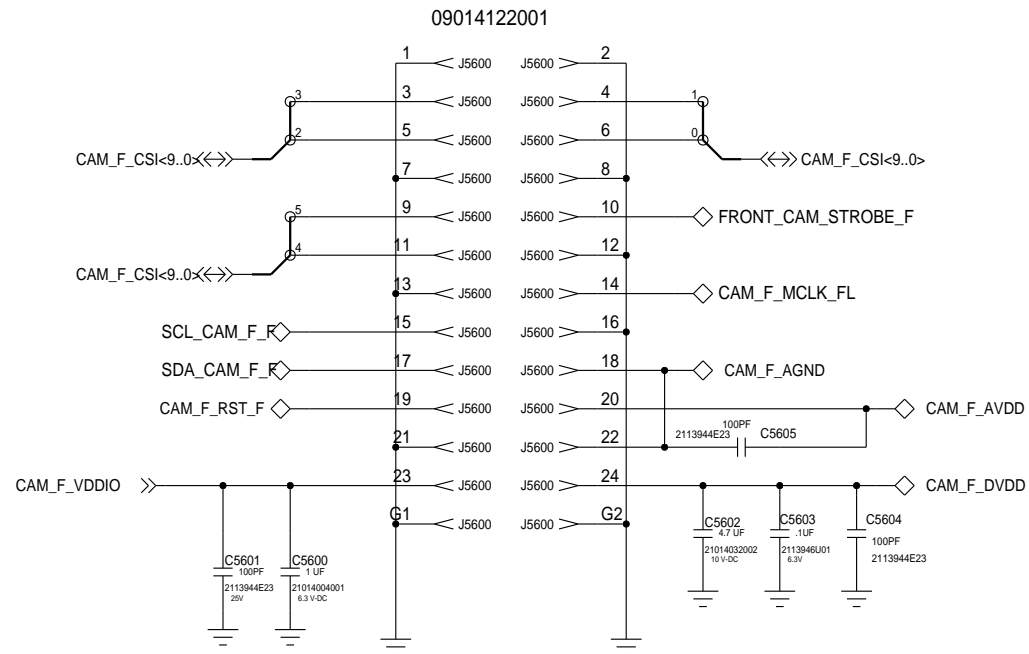
PAGE 10 OF 78

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 Wed Jun 10 14:32:54 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_b.cpm	01
CAD FILE NAME:		PAGE 11 OF 78	

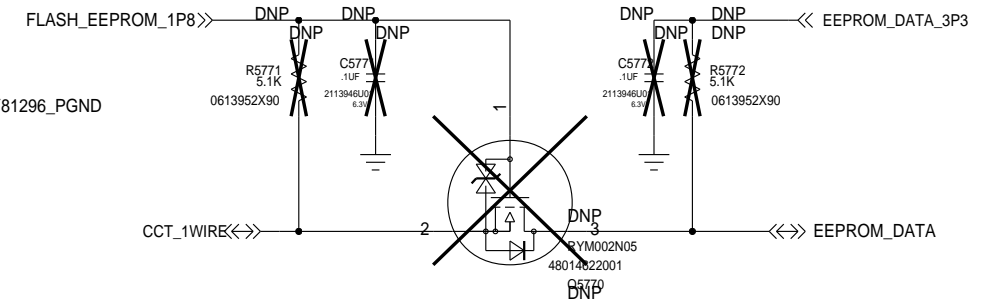
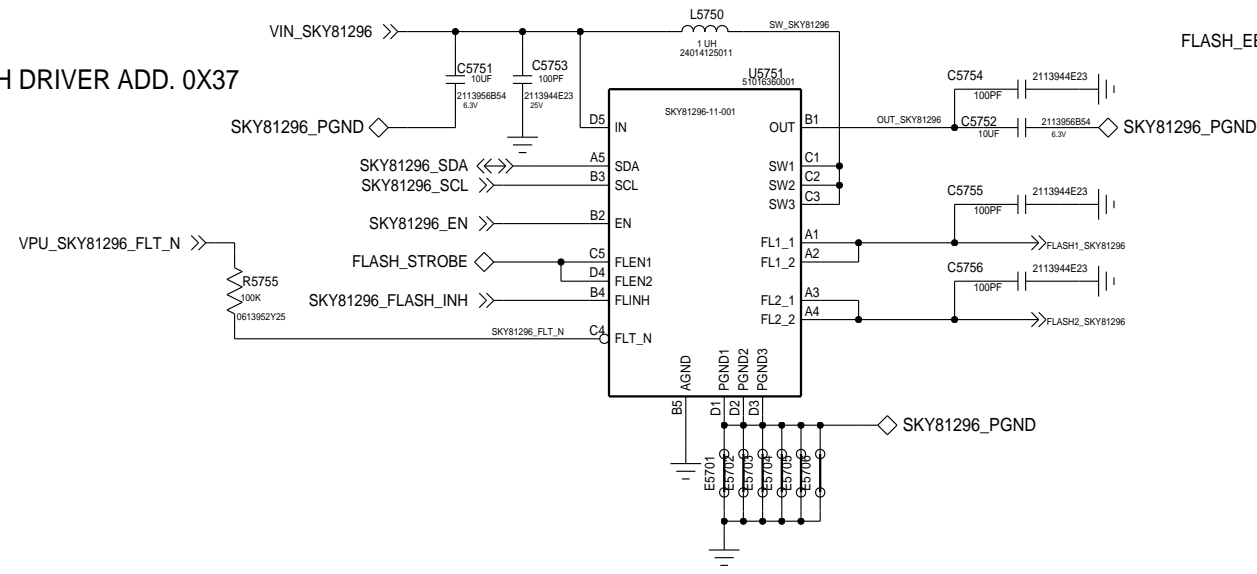
CAM: REAR

REF:5500-5599

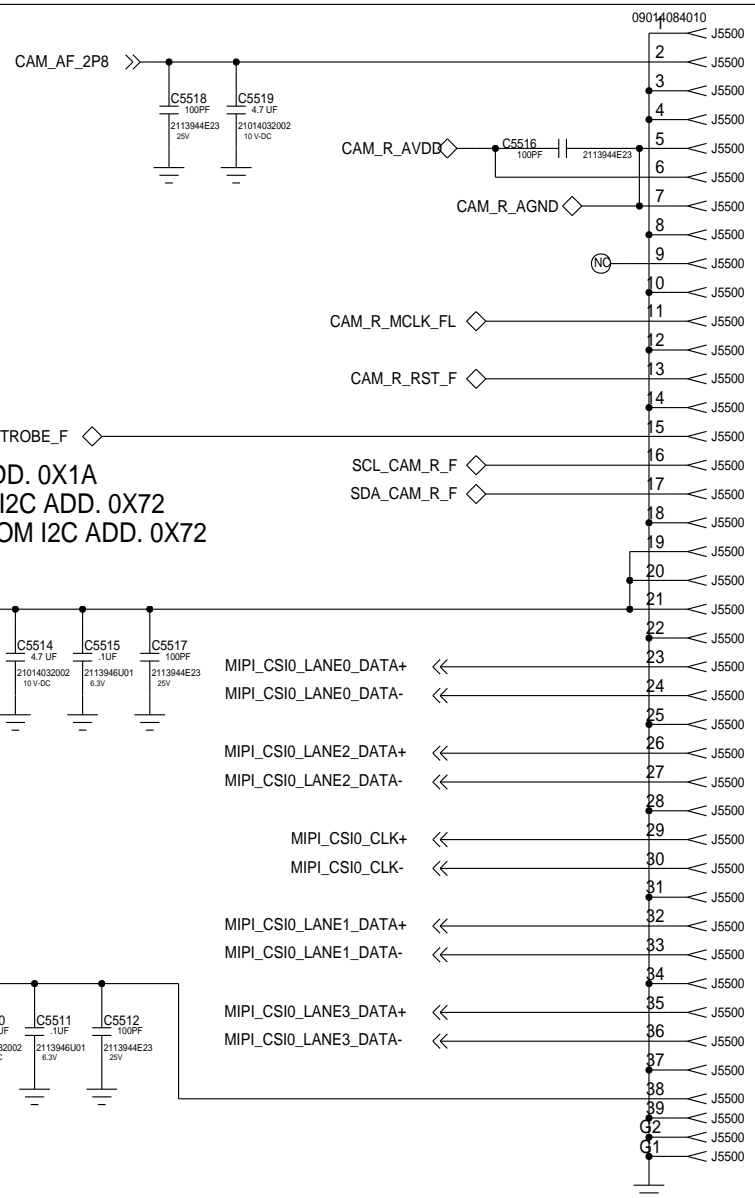
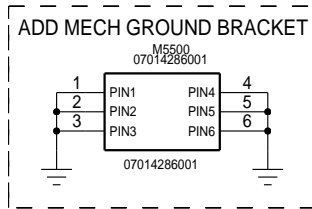
LED FLASH DRIVER

REF:5750-5799

*** FLASH DRIVER ADD. 0X37

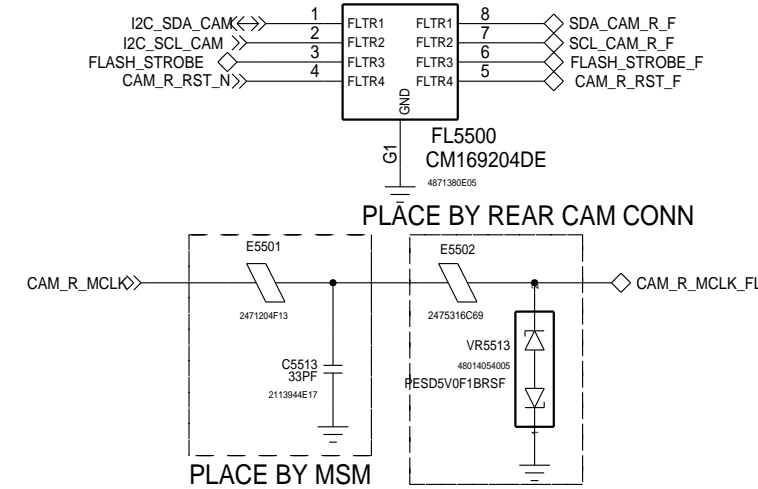


IMAGER FLEX CONNECTOR

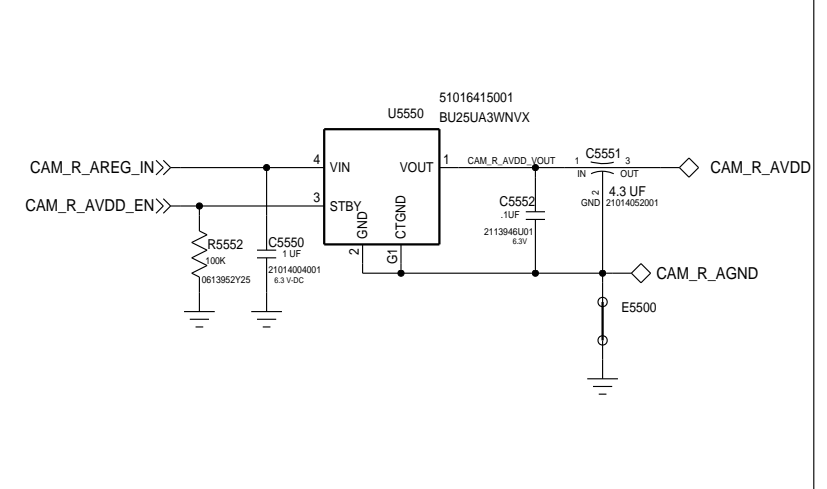


*** IMAGE SENSOR I2C ADD. 0X1A
 *** AUTO FOCUS DRIVER I2C ADD. 0X72
 *** IMAGE SENSOR EEPROM I2C ADD. 0X72

EMI/ESD FILTER



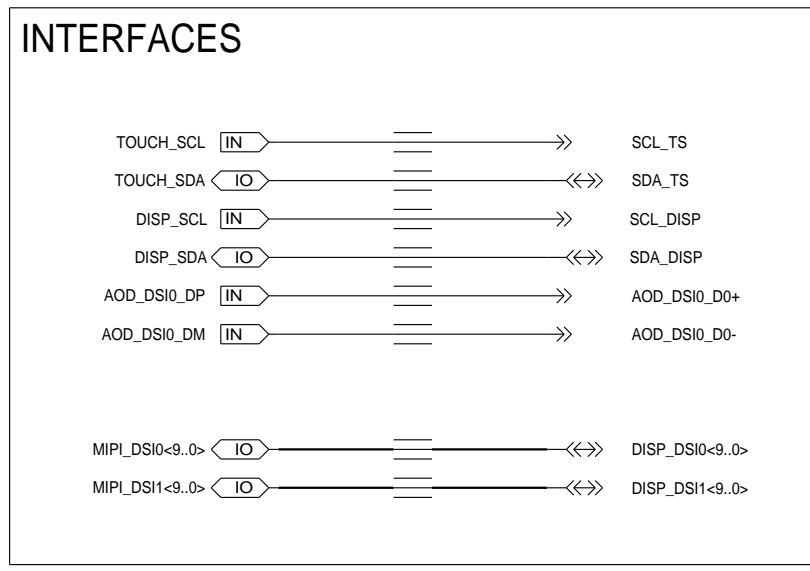
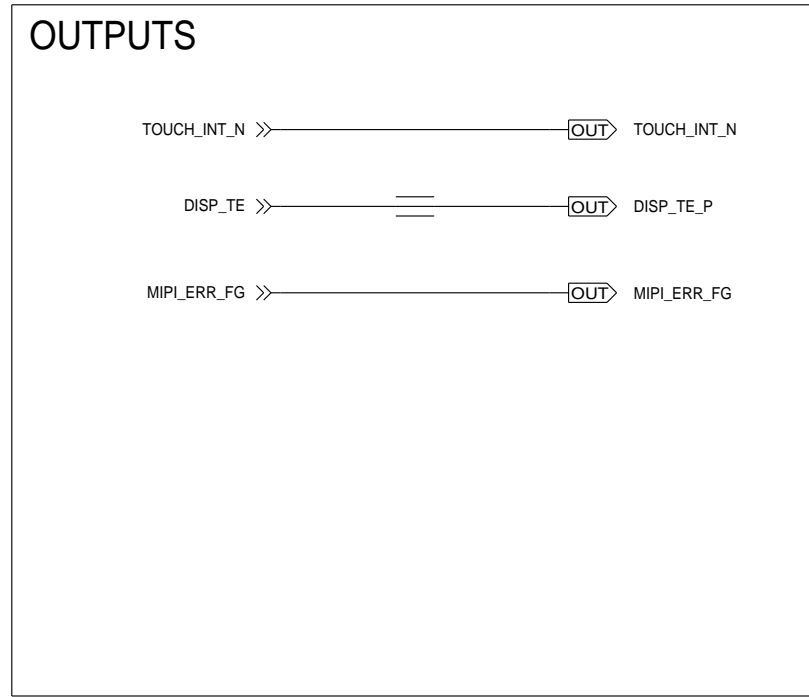
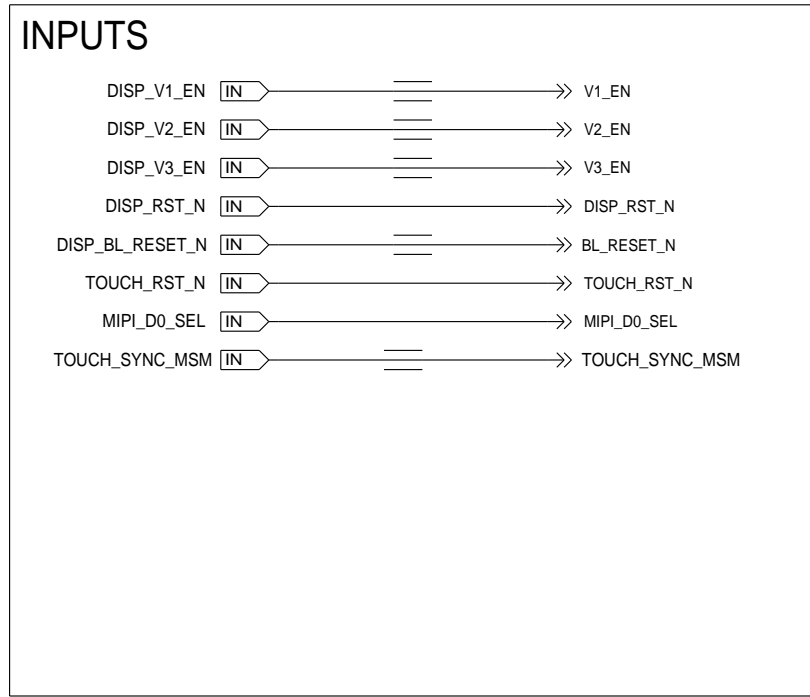
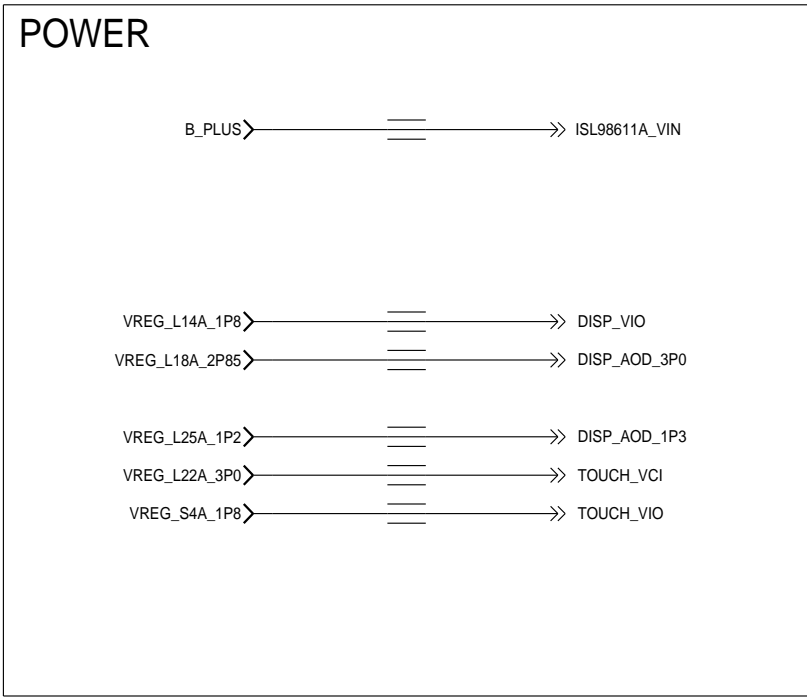
ANALOG REGULATOR



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Wed Jun 10 14:32:56 2015		imagers	
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		CAD FILE NAME:	PAGE 12 OF 78

DISP: PORTS

REF 5000-5499

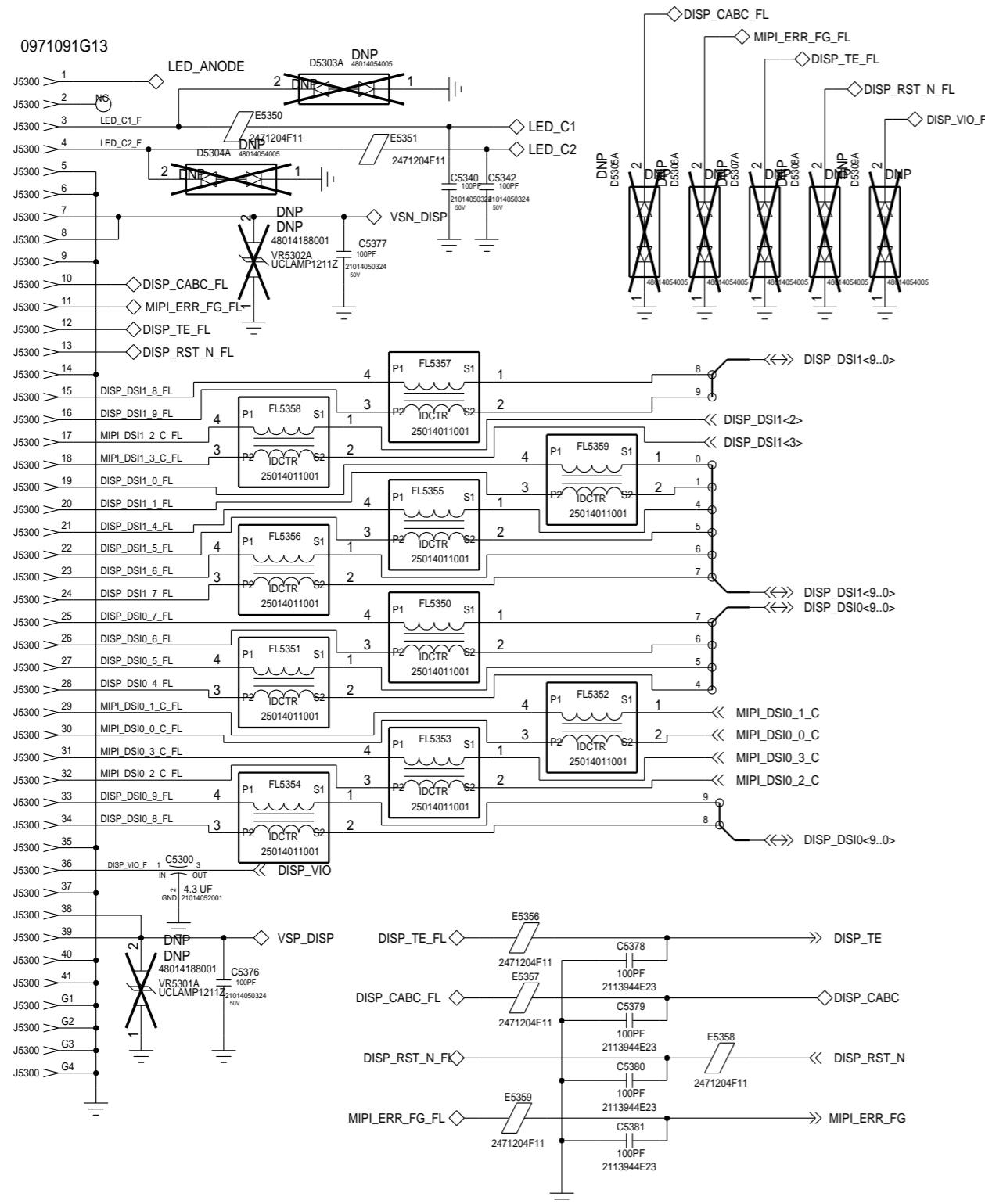


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ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:48 2015		display	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016440001_b.cpm	01
		CAD FILE NAME:	
		PAGE 13 OF 78	

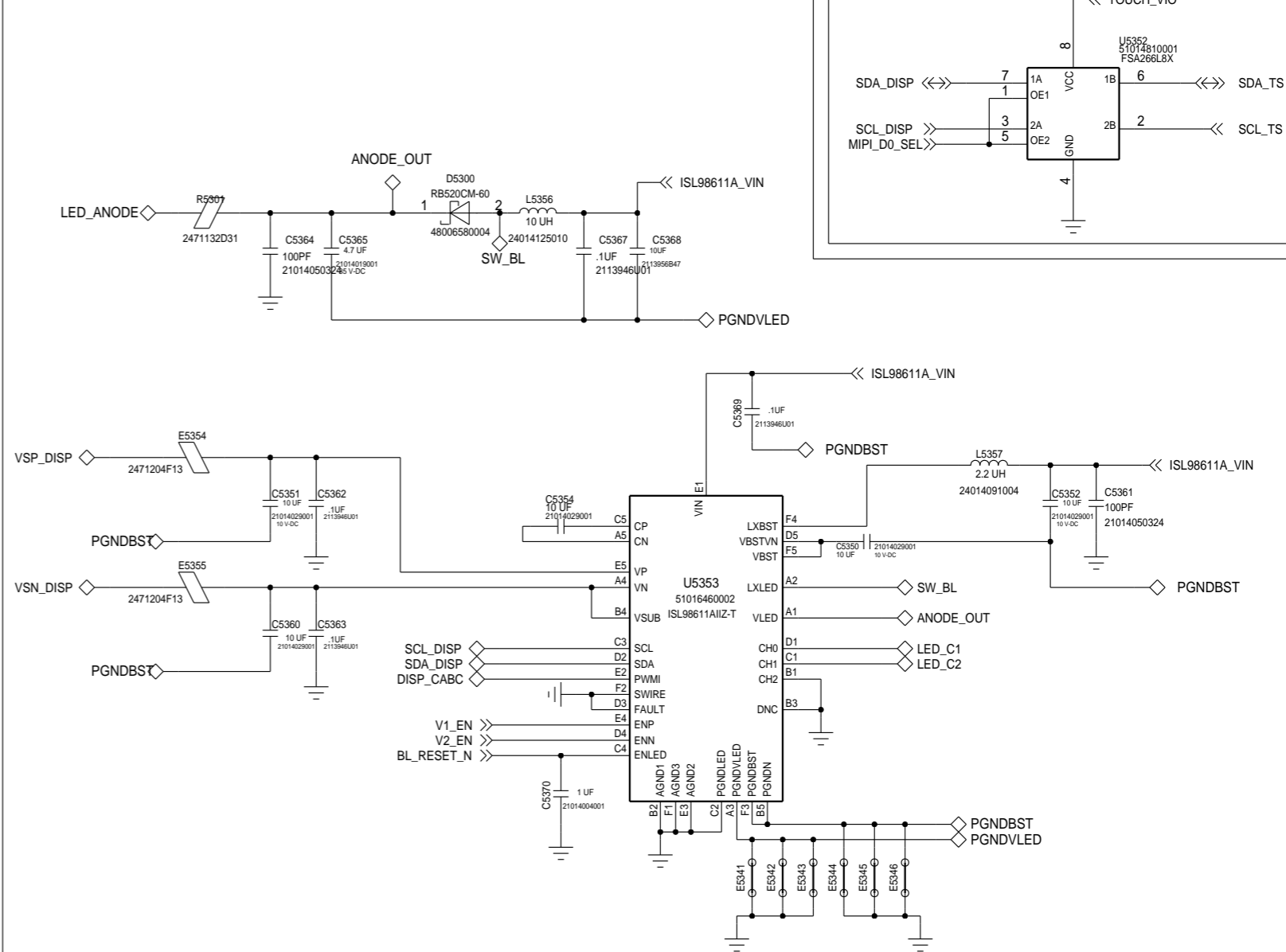
DISP: CONNECTOR

REF 5300-5349

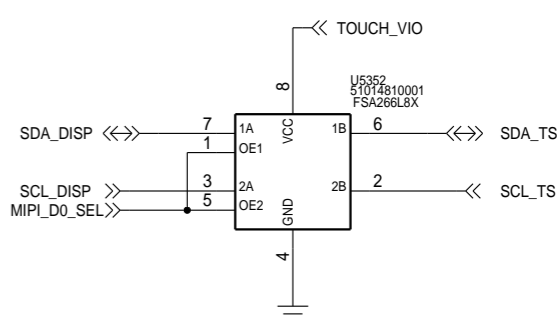
DISPLAY CONNECTOR



DISPLAY DUAL OUTPUT POWER SUPPLY *** I2C ADD. 0X29



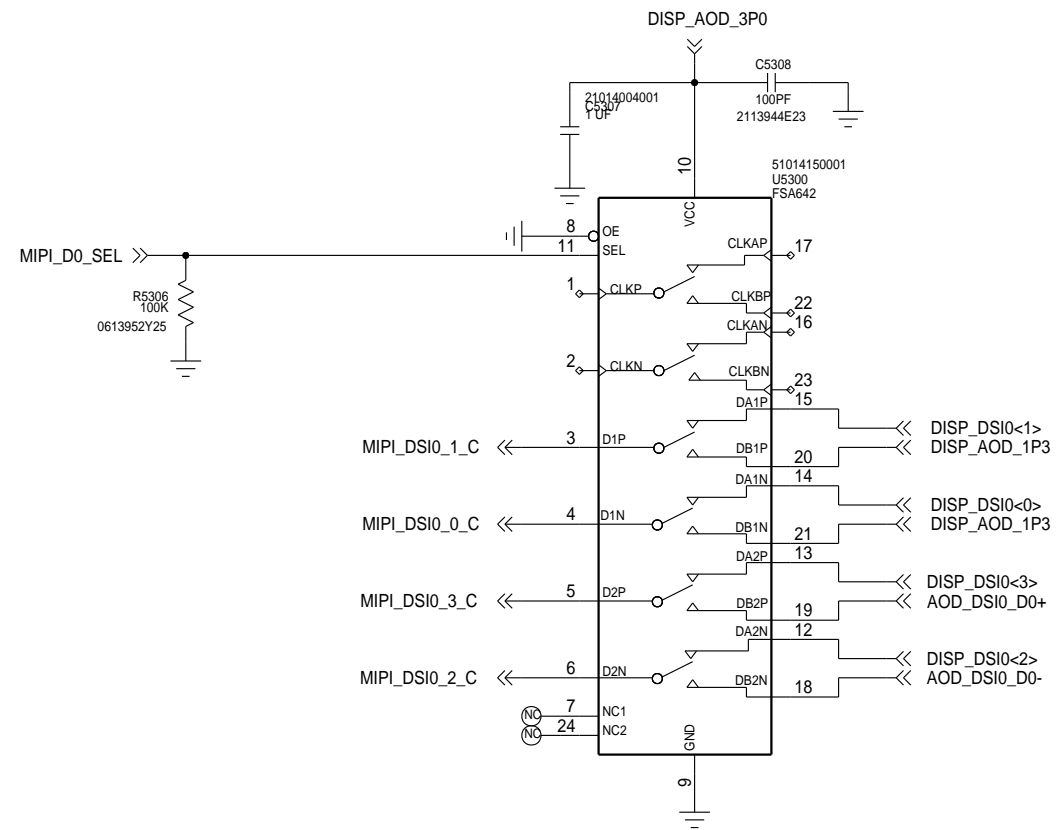
DISPLAY I2C PATH SWITCH



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:50 2015		display	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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CAD FILE NAME:		PAGE 14 OF 78	

DISP: AOD

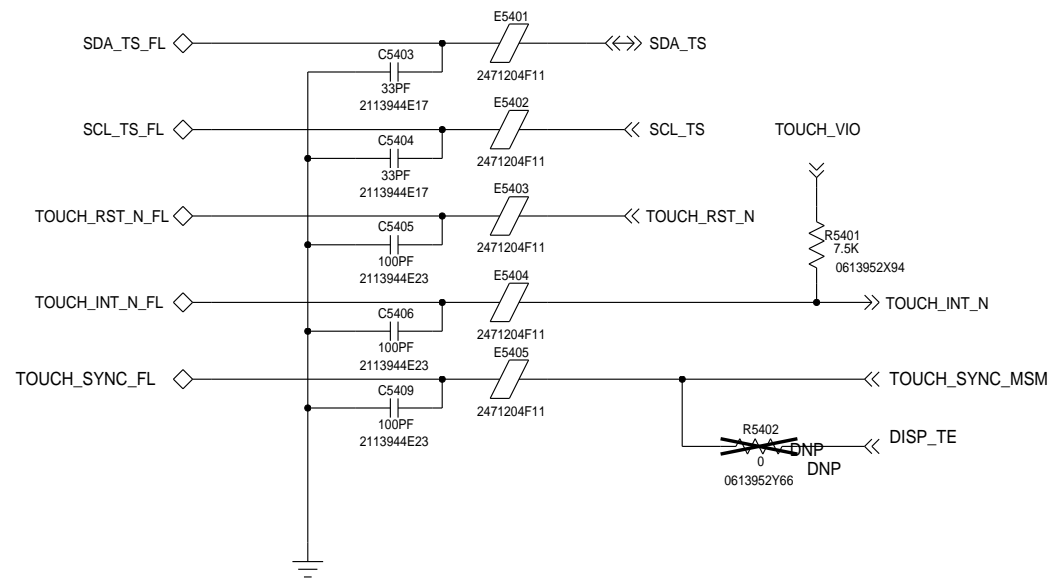
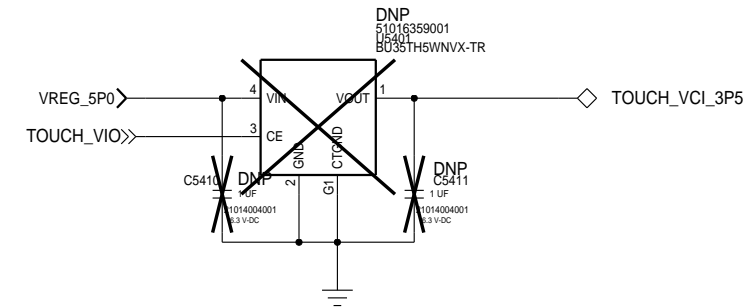
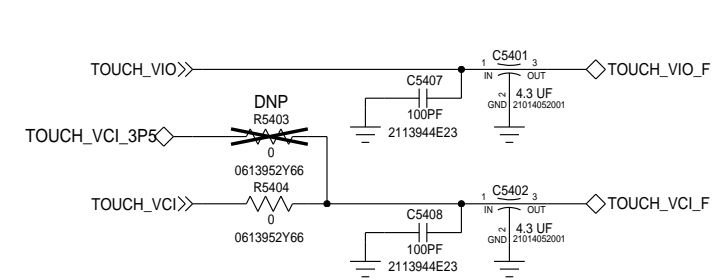
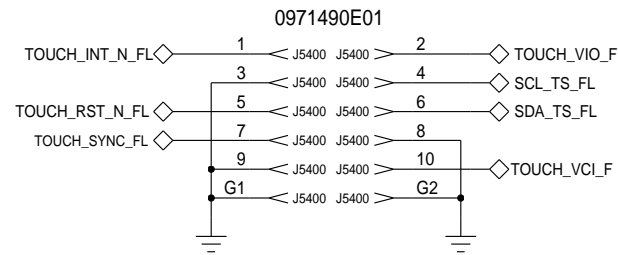


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		CAD FILE NAME:	
		PAGE 15 OF 78	

TOUCH: CONNECTOR

REF 5400-5439

*** TOUCH SENSOR I2C ADD. 0X20



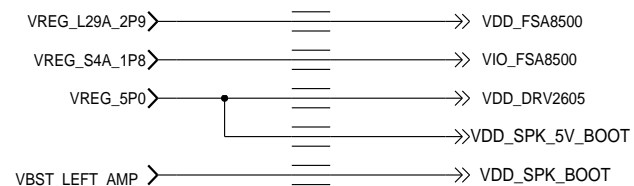
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LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:51 2015		display	
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 16 OF 78	

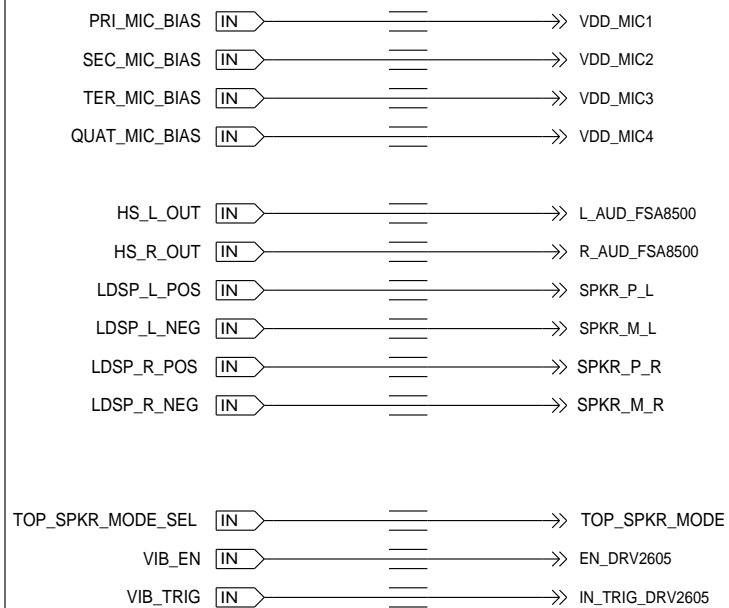
AFE: PORTS

REF 4500-4999

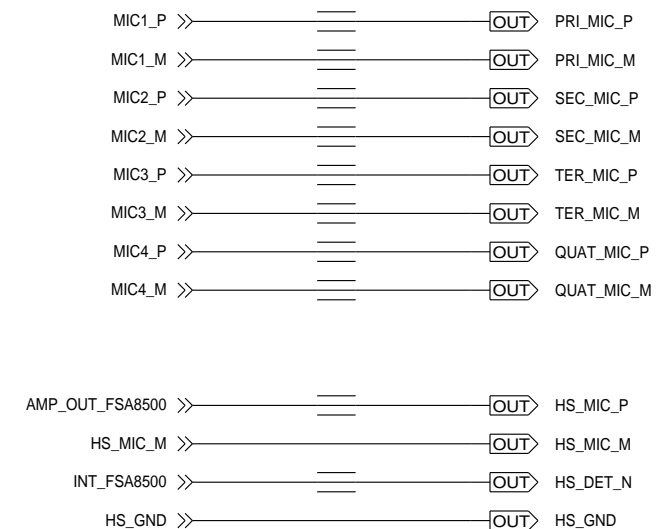
POWER



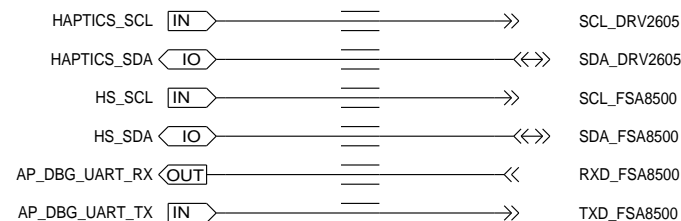
INPUTS



OUTPUTS



INTERFACES



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
Wed Jun 10 14:32:39 2015

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BLOCK TITLE:

audio_fe

PROJECT NAME
B 84016440001_b.cpm

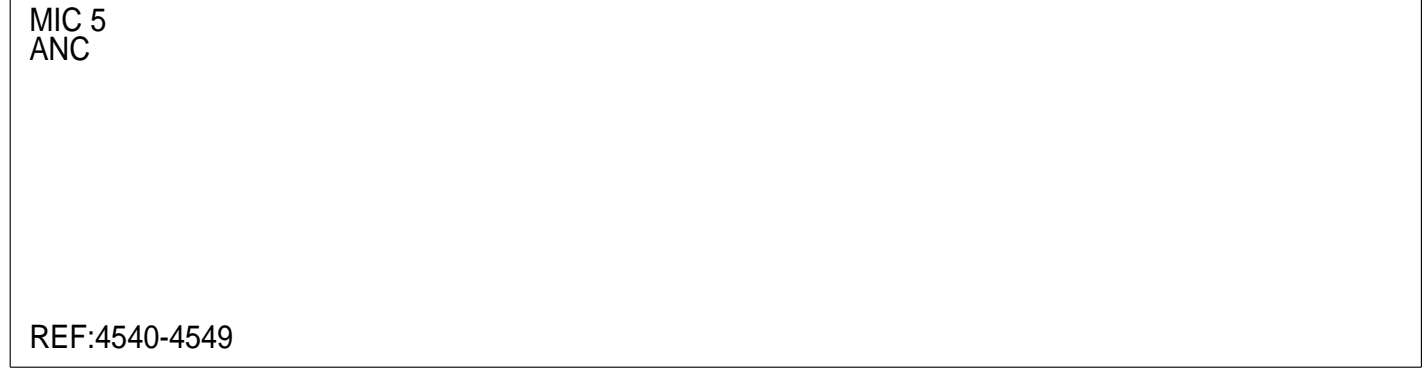
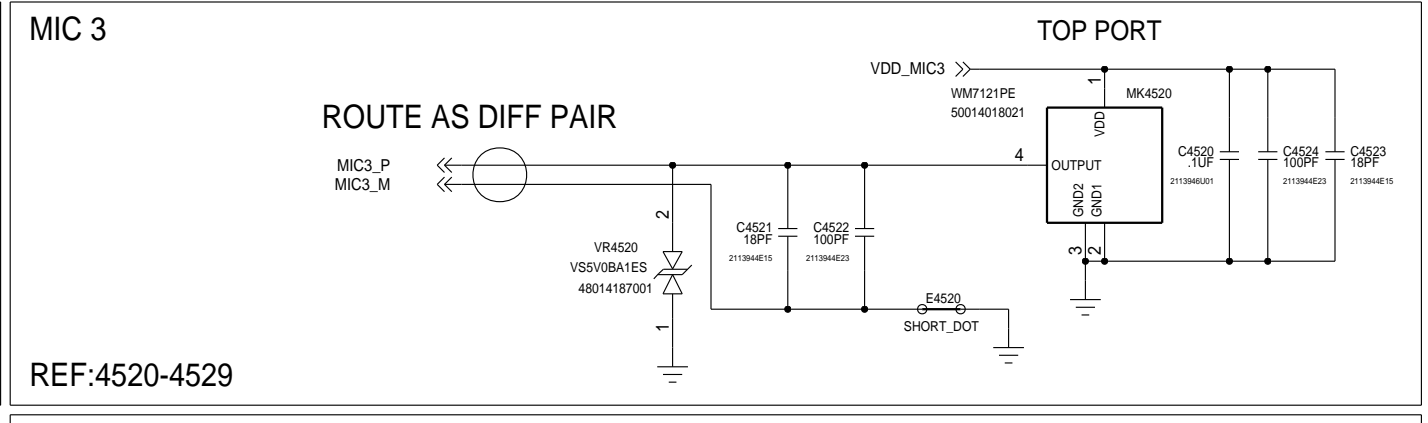
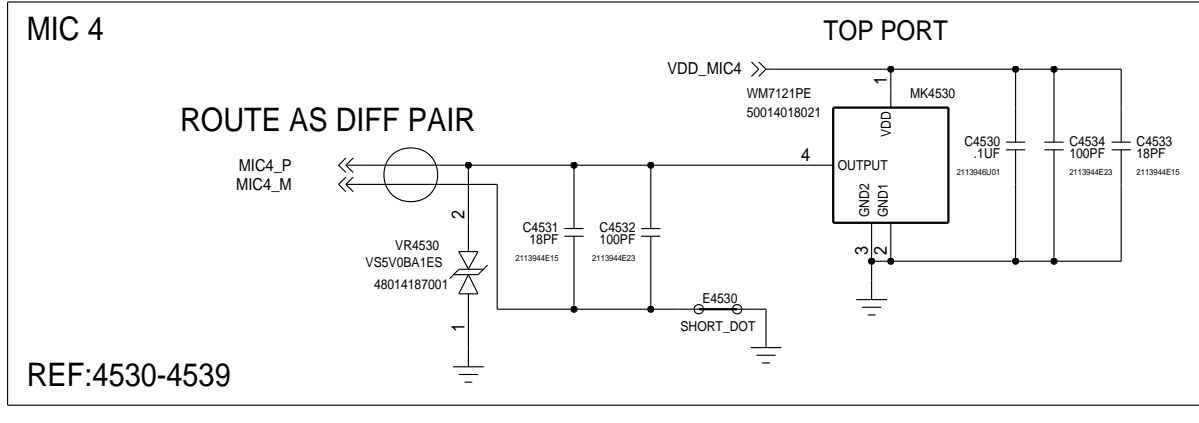
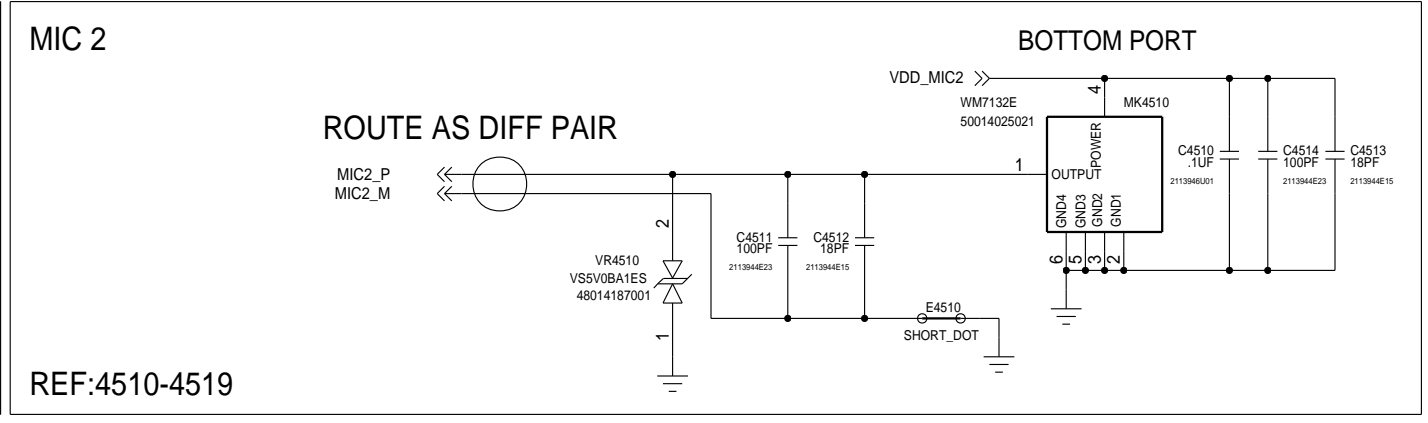
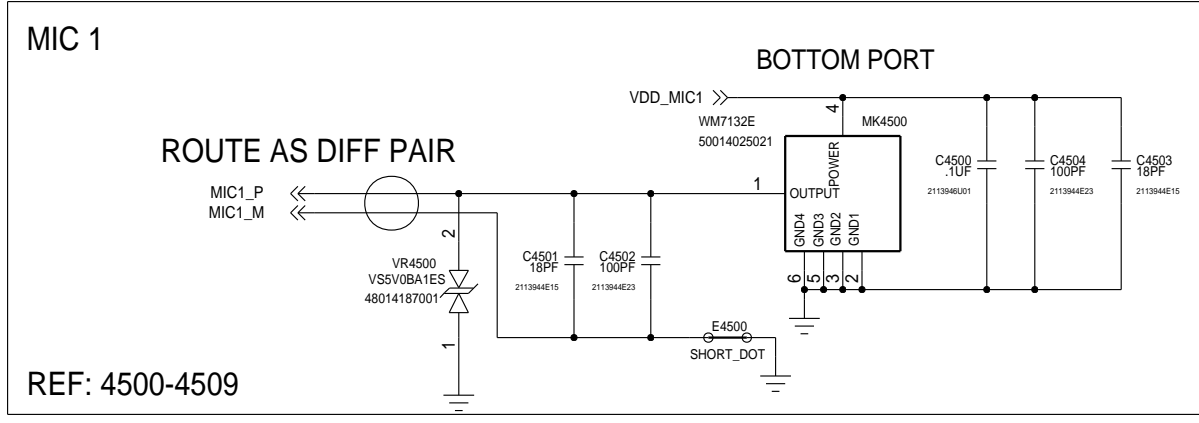
REV
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CAD FILE NAME:

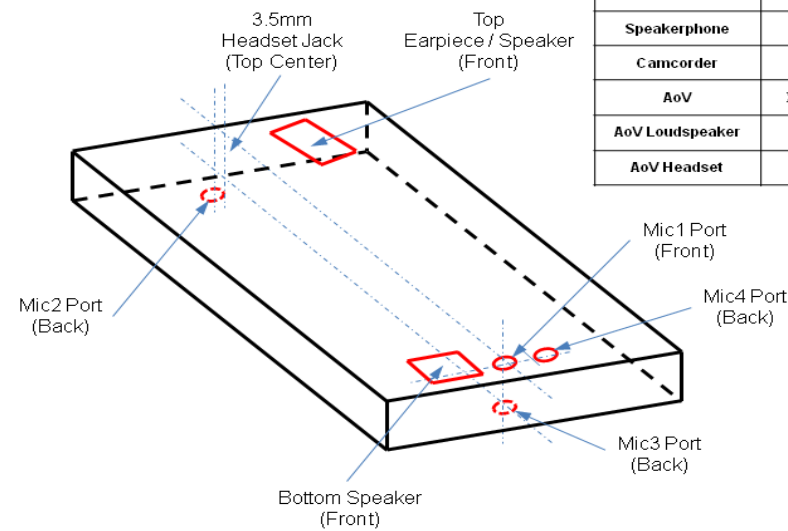
PAGE 17 OF 78

AFE: MICS

REF: 4500-4599



Clark (Front View)

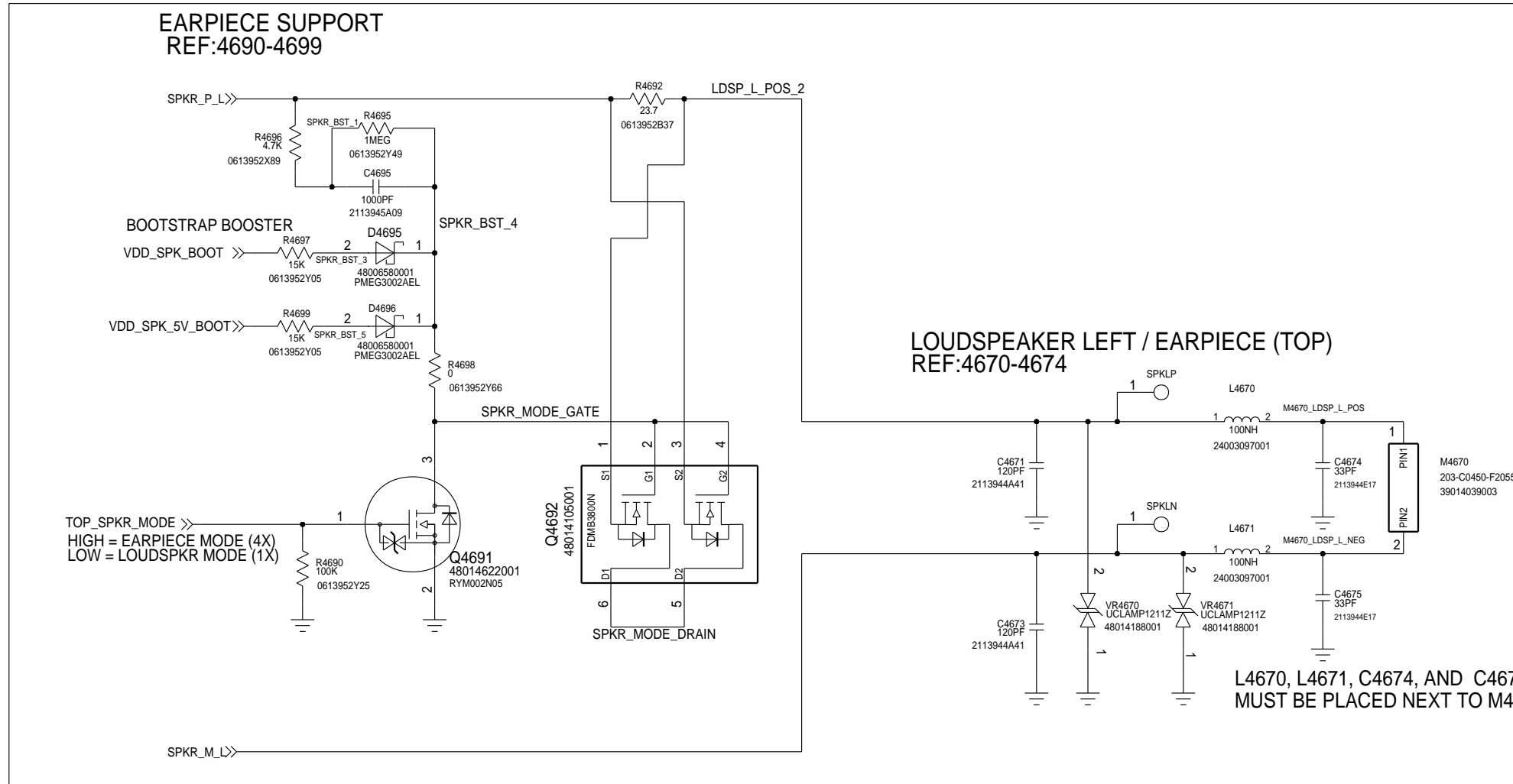


	Mic1	Mic2	Mic3	Mic4	HS Mic
Voice Handset	X	X			
Speakerphone		X			
Camcorder		X	X		
AoV	X		X	X	
AoV Loudspeaker		X			
AoV Headset					X

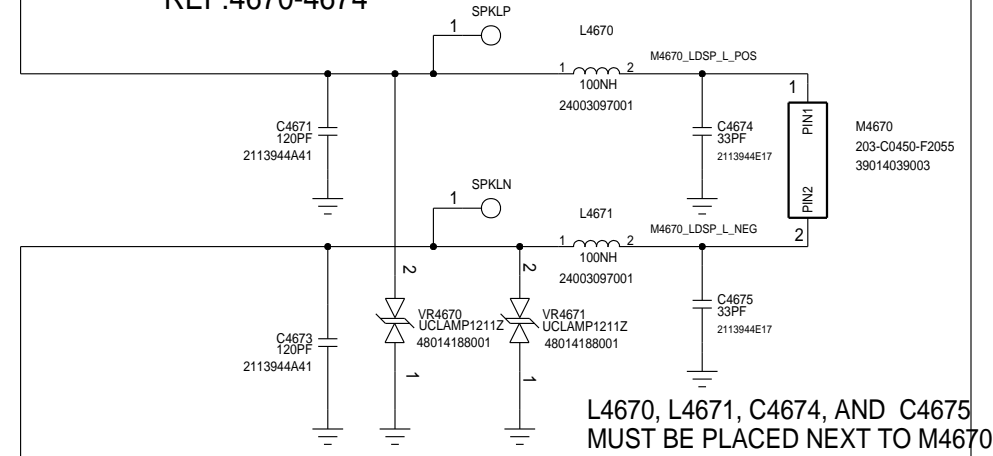
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ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Wed Jun 10 14:32:42 2015		audio_fe	
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		CAD FILE NAME:	PAGE 18 OF 78

AFE: SPEAKERS

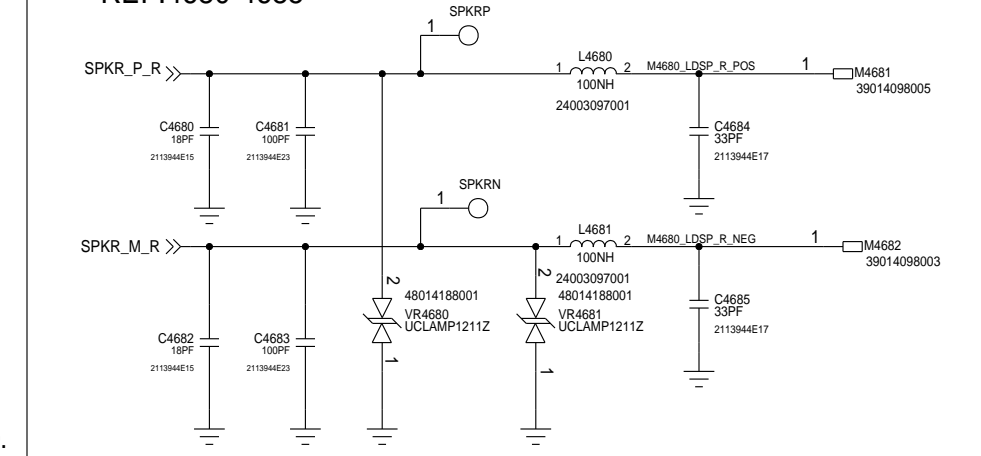
REF: 4600-4699



LOUDSPEAKER LEFT / EARPIECE (TOP) REF:4670-4674

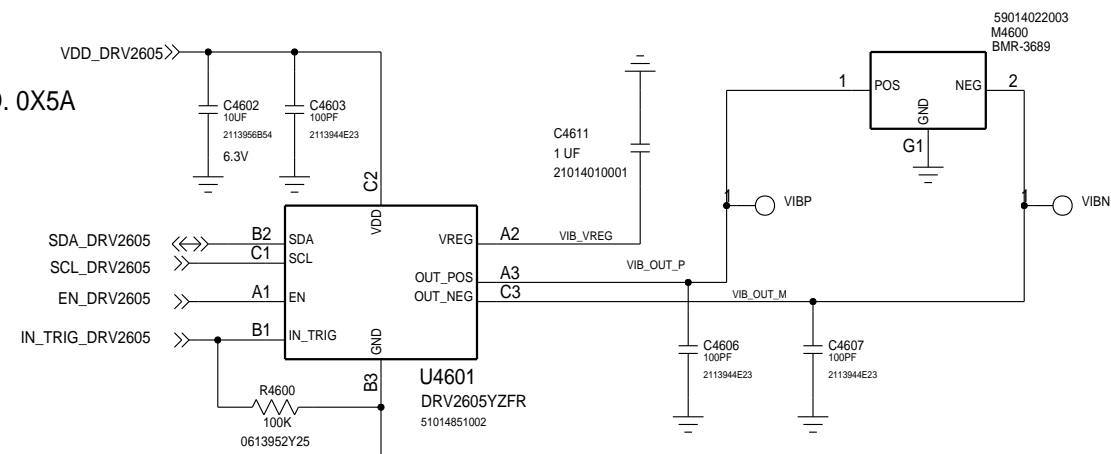


LOUDSPEAKER RIGHT (BOTTOM) REF:4680-4685



ROTARY VIBRATOR REF DES 4600-4619

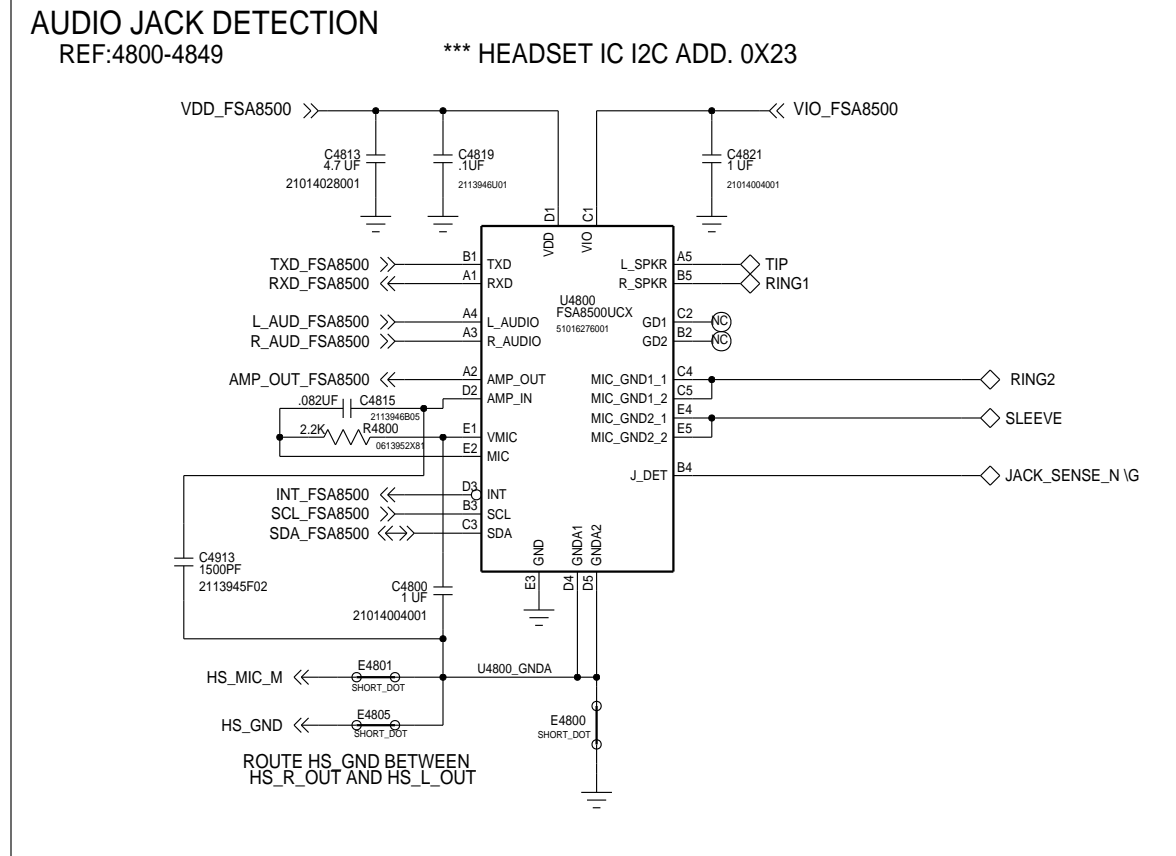
*** VIBRATOR DRIVER I2C ADD. 0X5A



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED MDR TRACKED TRACKED UNBLOCKED

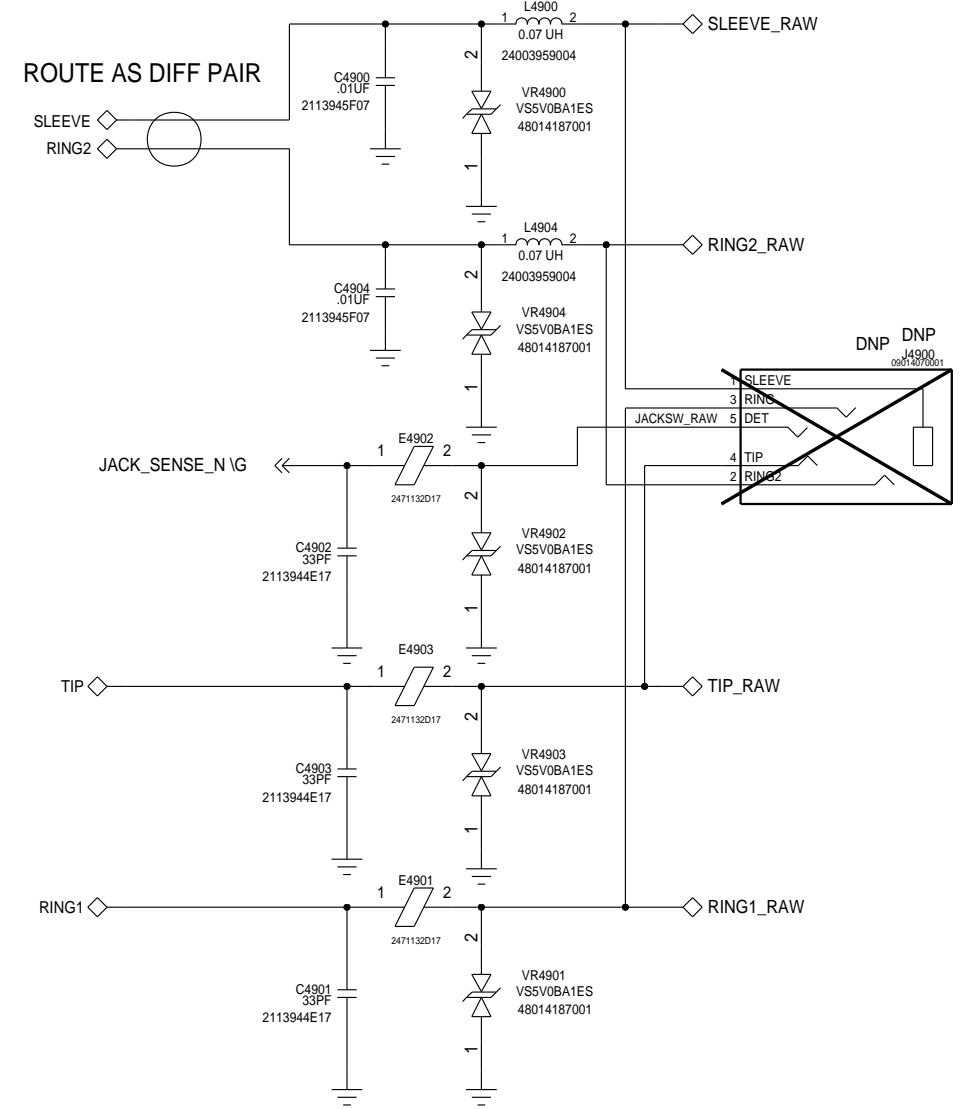
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LAST MODIFIED BY: MOTOROLA Wed Jun 10 14:32:44 2015		audio_fe	
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CAD FILE NAME:		PAGE 19 OF 78	

AFE: 3.5MM HEADSET



3.5MM HSJ

REF:4900-4949



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

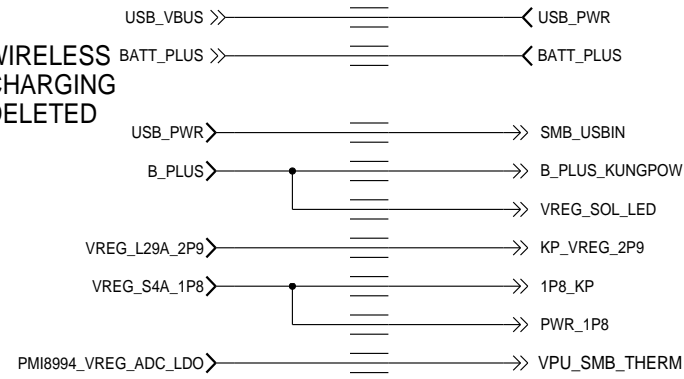
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MATT MOTTIER		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:45 2015		audio_fe	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	PAGE 20 OF 78

PWR: PORTS

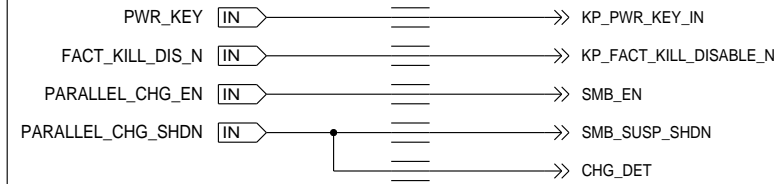
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POWER

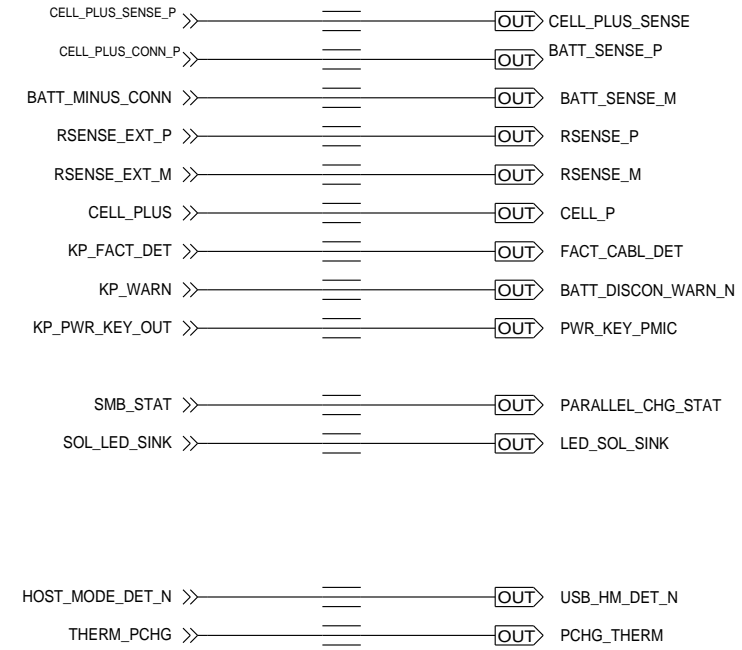
WIRELESS CHARGING DELETED



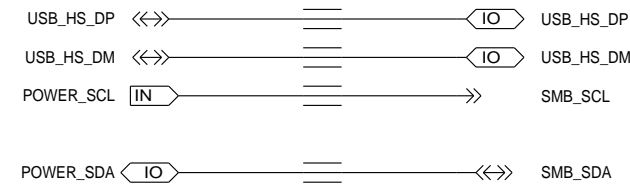
INPUTS



OUTPUTS



INTERFACES

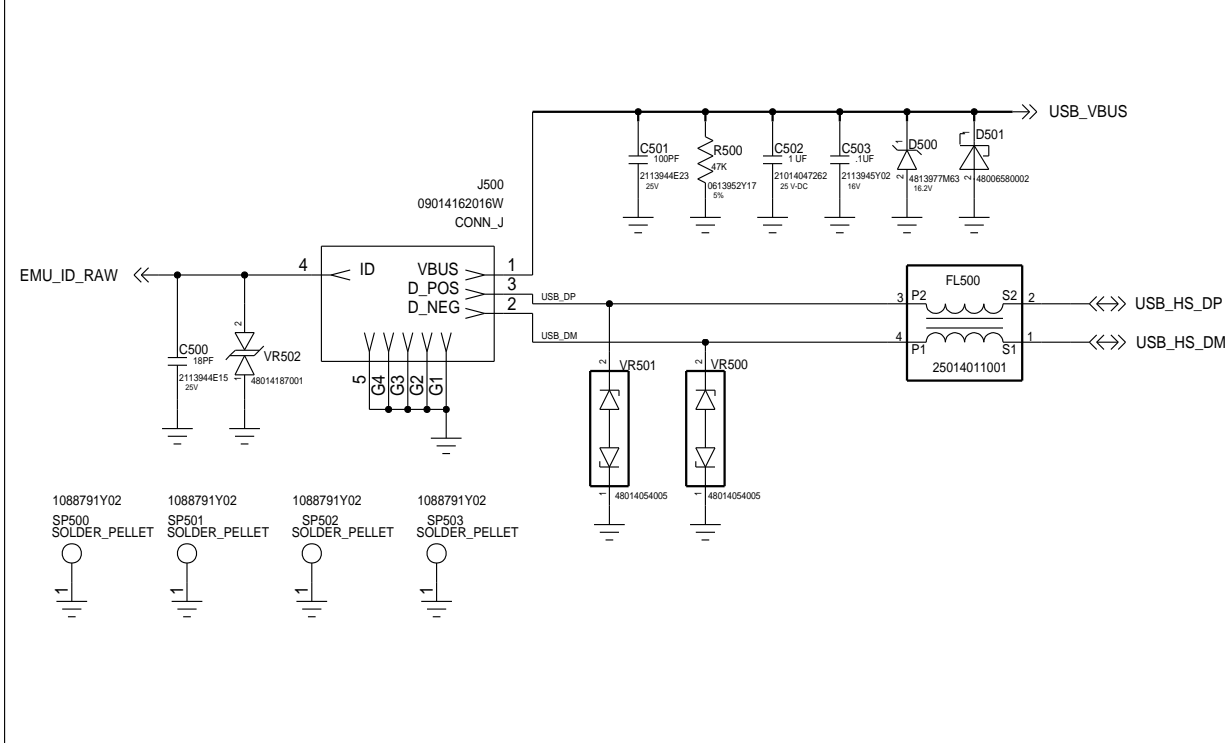


APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:35 2015		power	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016440001_b.cpm	01
		CAD FILE NAME:	
		PAGE 21 OF 78	

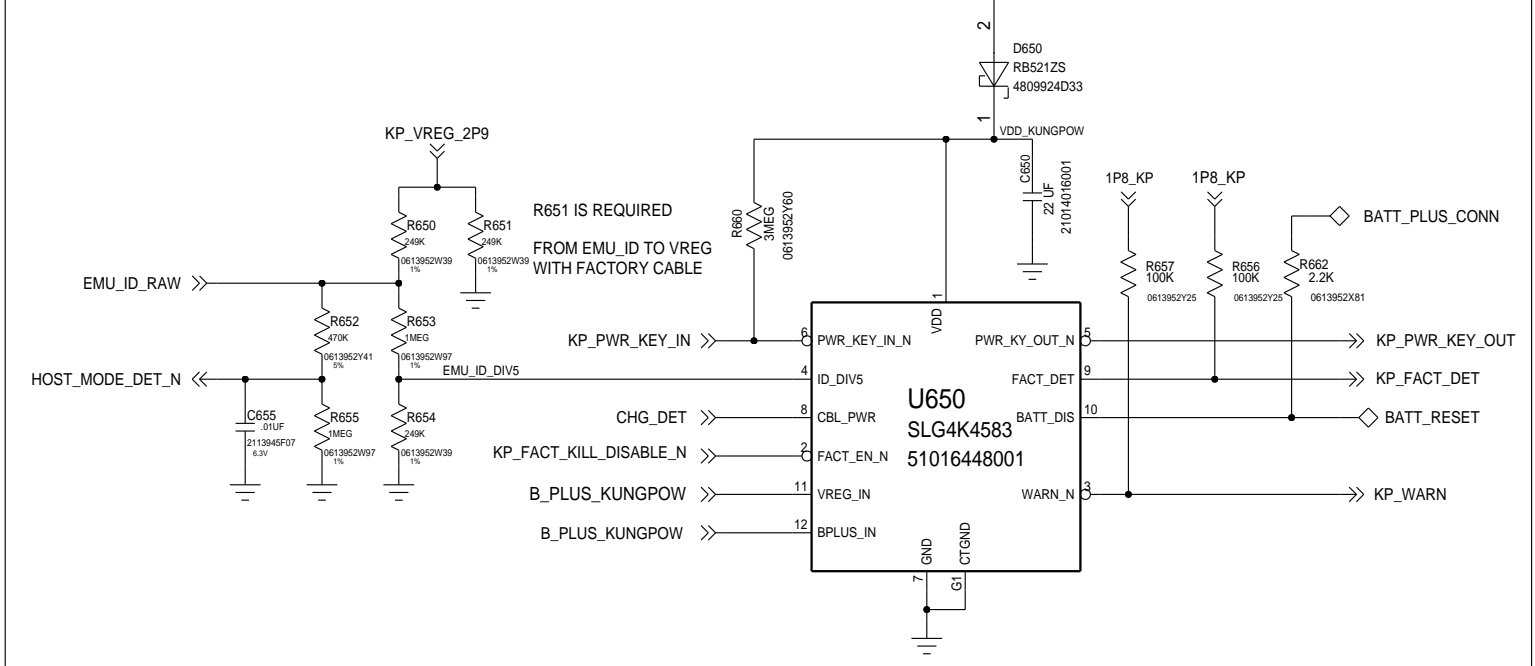
PWR: USB2 / BATT

REF: 500-530

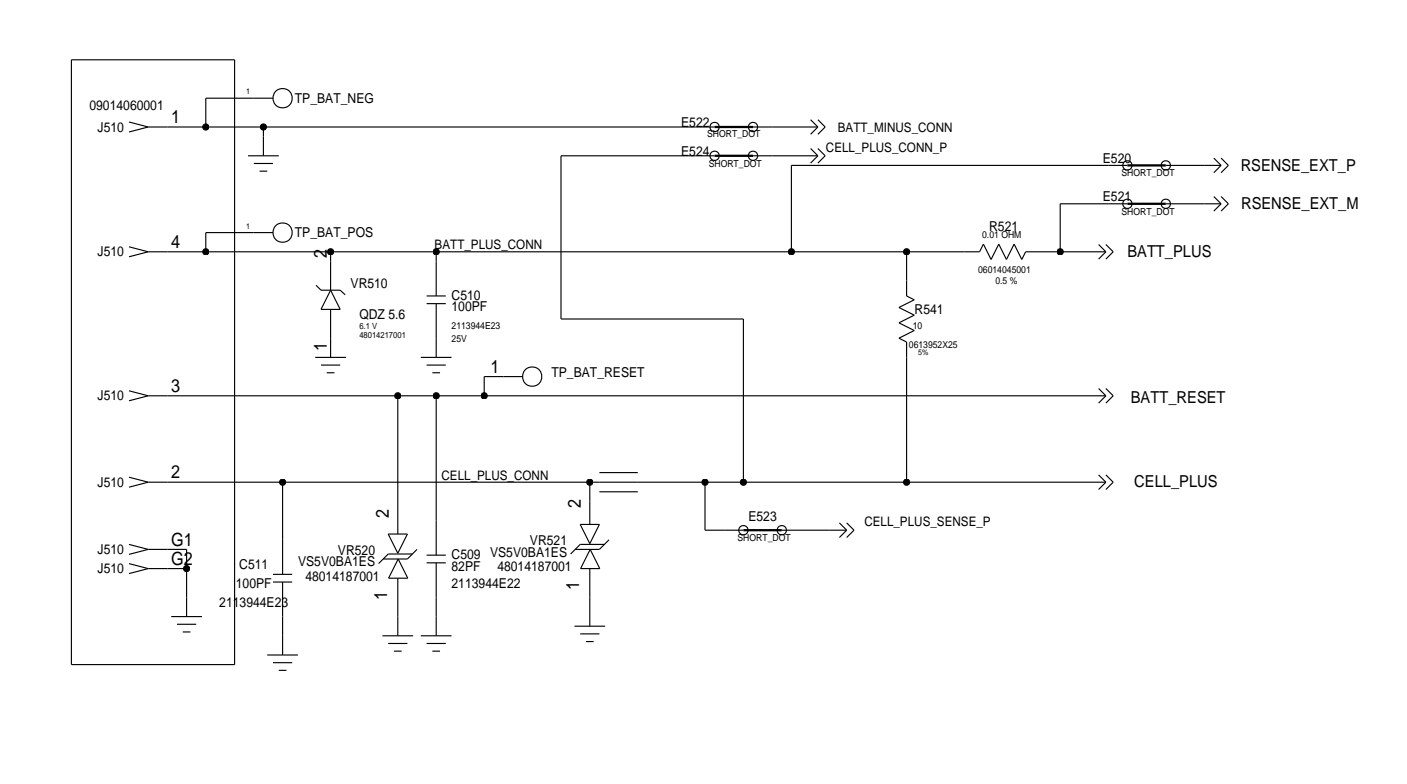
MICRO USB



KUNG KOW BATTERY DISCONNECT



BATTERY BLOCK

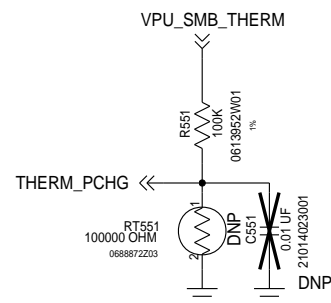
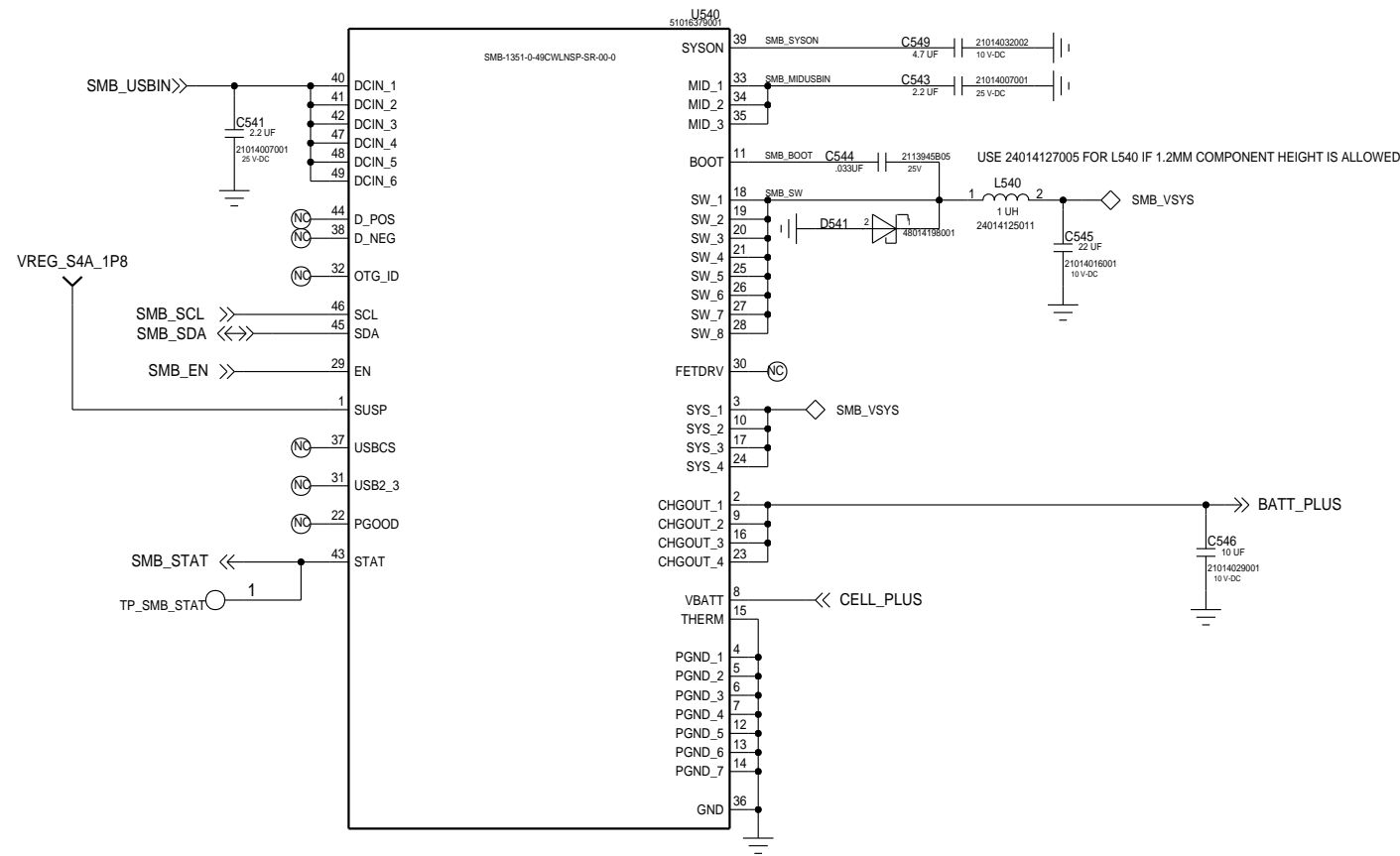


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: RICH NG		BLOCK TITLE: power	
LAST MODIFIED BY: UDI ELRAN Wed Jun 10 14:32:36 2015		PROJECT NAME 84016440001_b.cpm	
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		PAGE 22 OF 78	

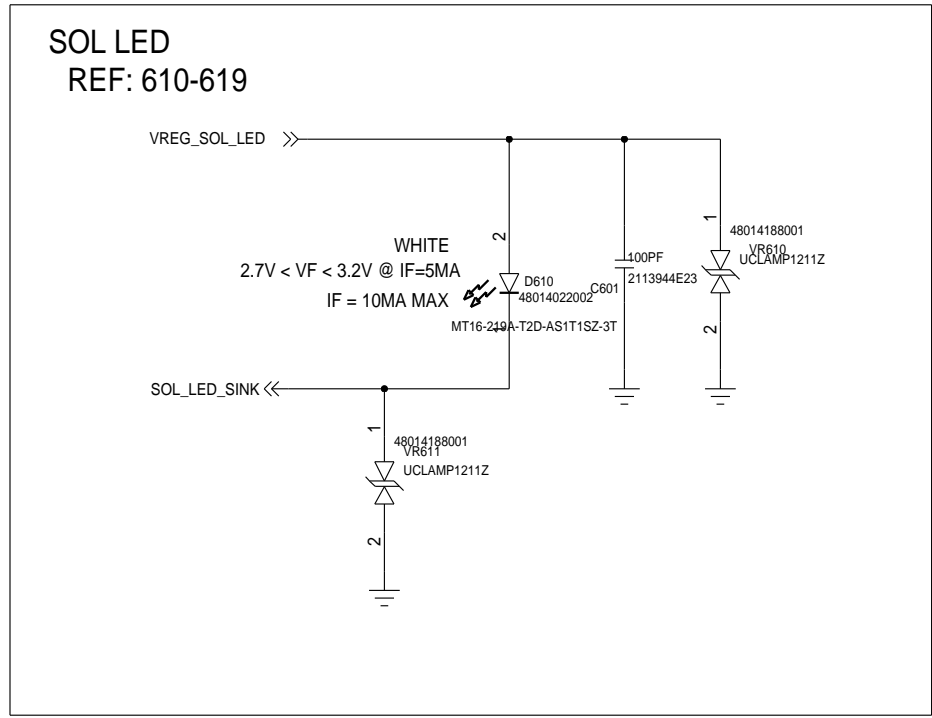
PWR: EXT CHG

REF: 540-559



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: R. NG Wed Jun 10 14:32:37 2015		power	
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		CAD FILE NAME:	
		PAGE 23 OF 78	

PWR: LIGHTING

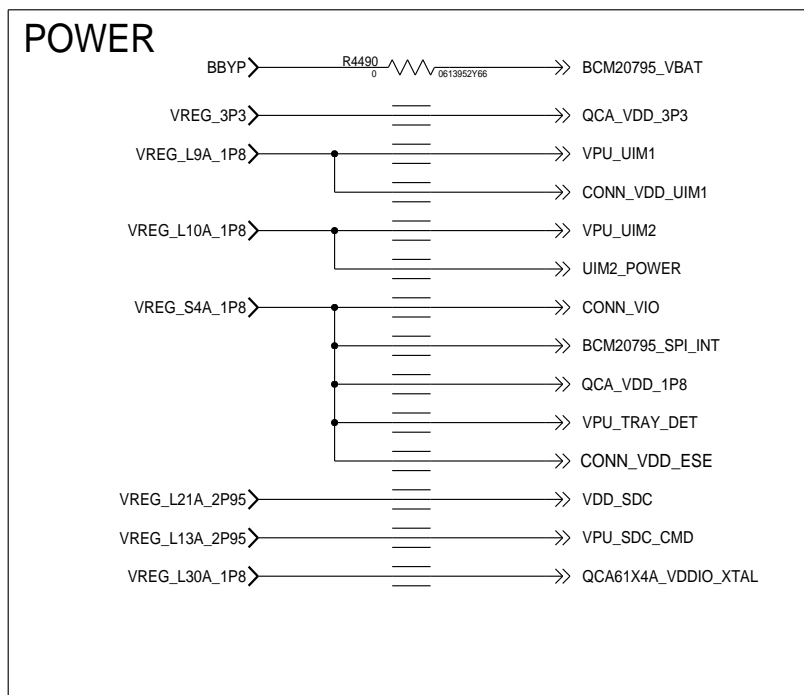


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APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: TIM MILLER Wed Jun 10 14:32:38 2015		power	
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CAD FILE NAME:			PAGE 24 OF 78

CONN: POWER

REF 4490-4499



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Wed Jun 10 14:32:26 2015		connectivity	
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		B 84016440001_b.cpm	01
		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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BLOCK TITLE:

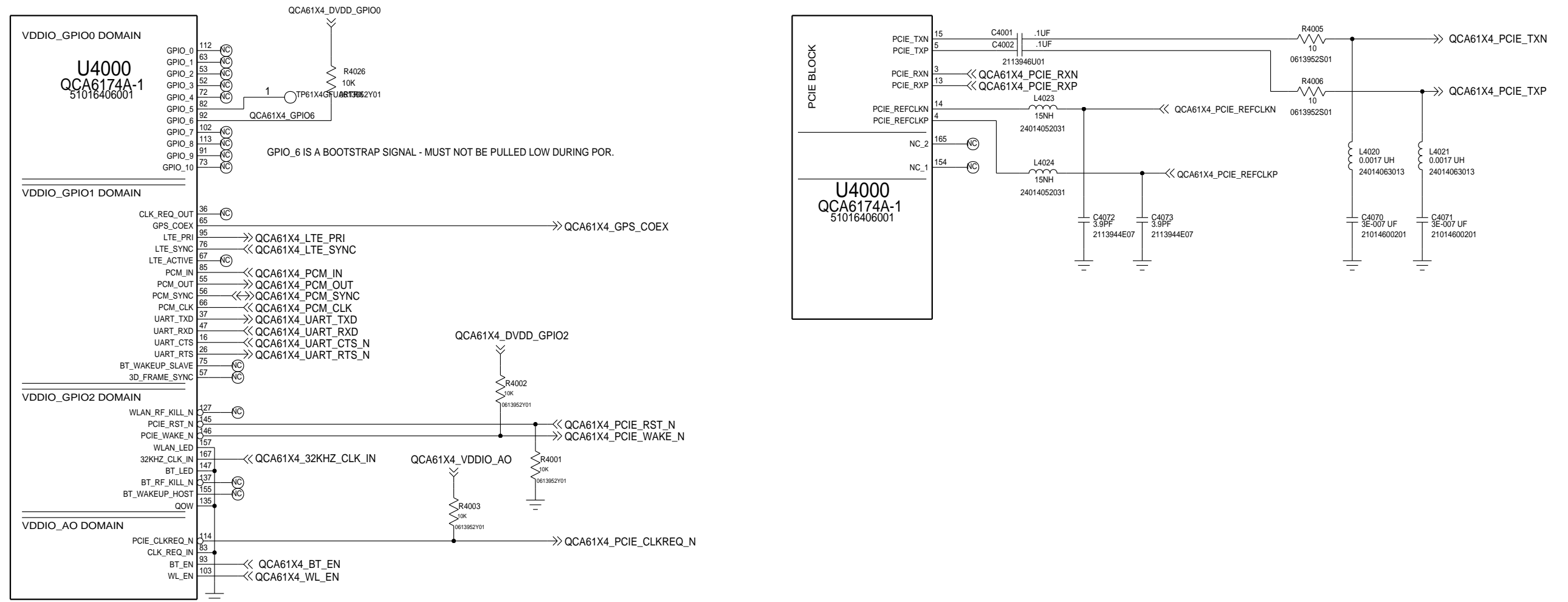
connectivity

B	PROJECT NAME	REV
	84016440001_b.cpm	01

CAD FILE NAME:

CONN: QCA61X4A HOST I/F

REF: 4000-4099



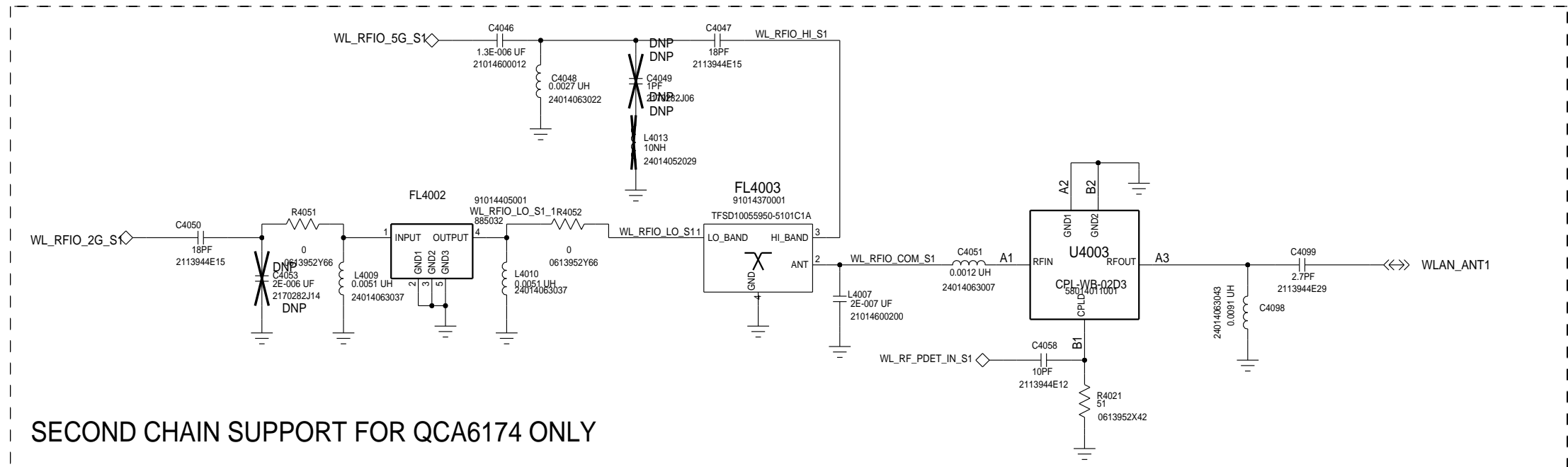
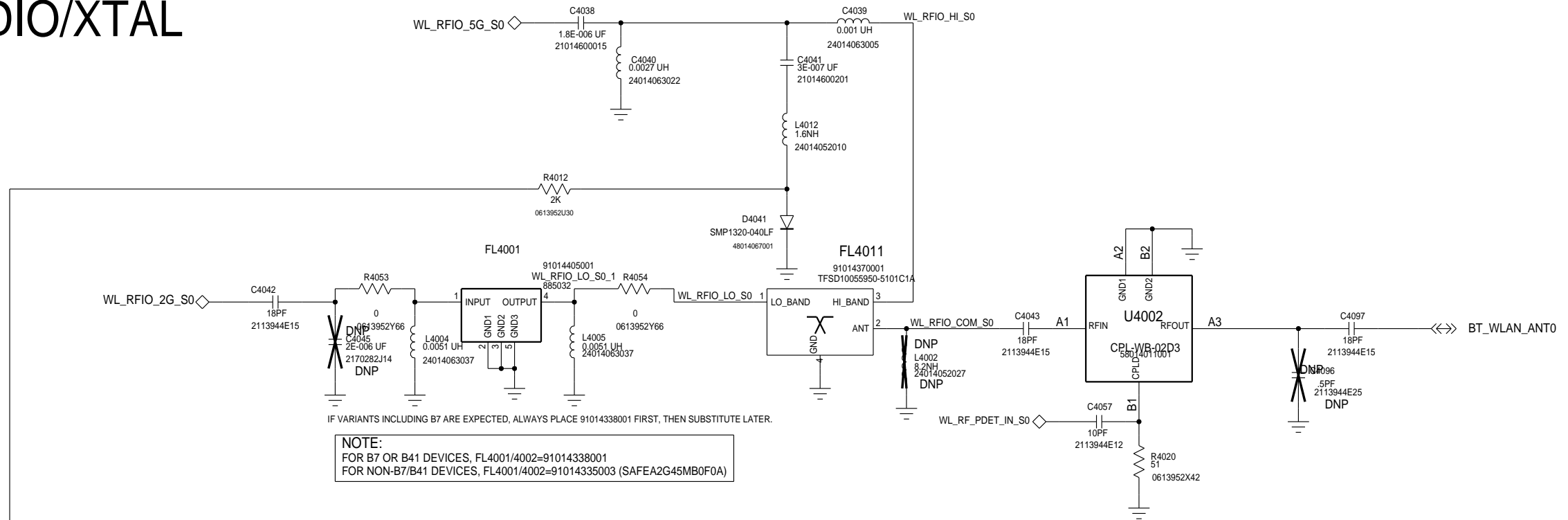
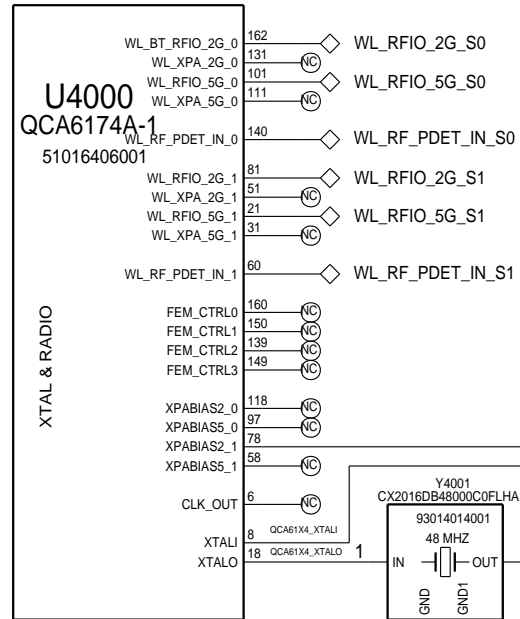
BASED ON 80-WL400/405-42 REV. B

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Wed Jun 10 14:32:30 2015		connectivity	
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 28 OF 78	

CONN: QCA61X4A RADIO/XTAL

REF 4000-4099



BASED ON 80-WL400-42 REV. B

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APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 29 OF 78	

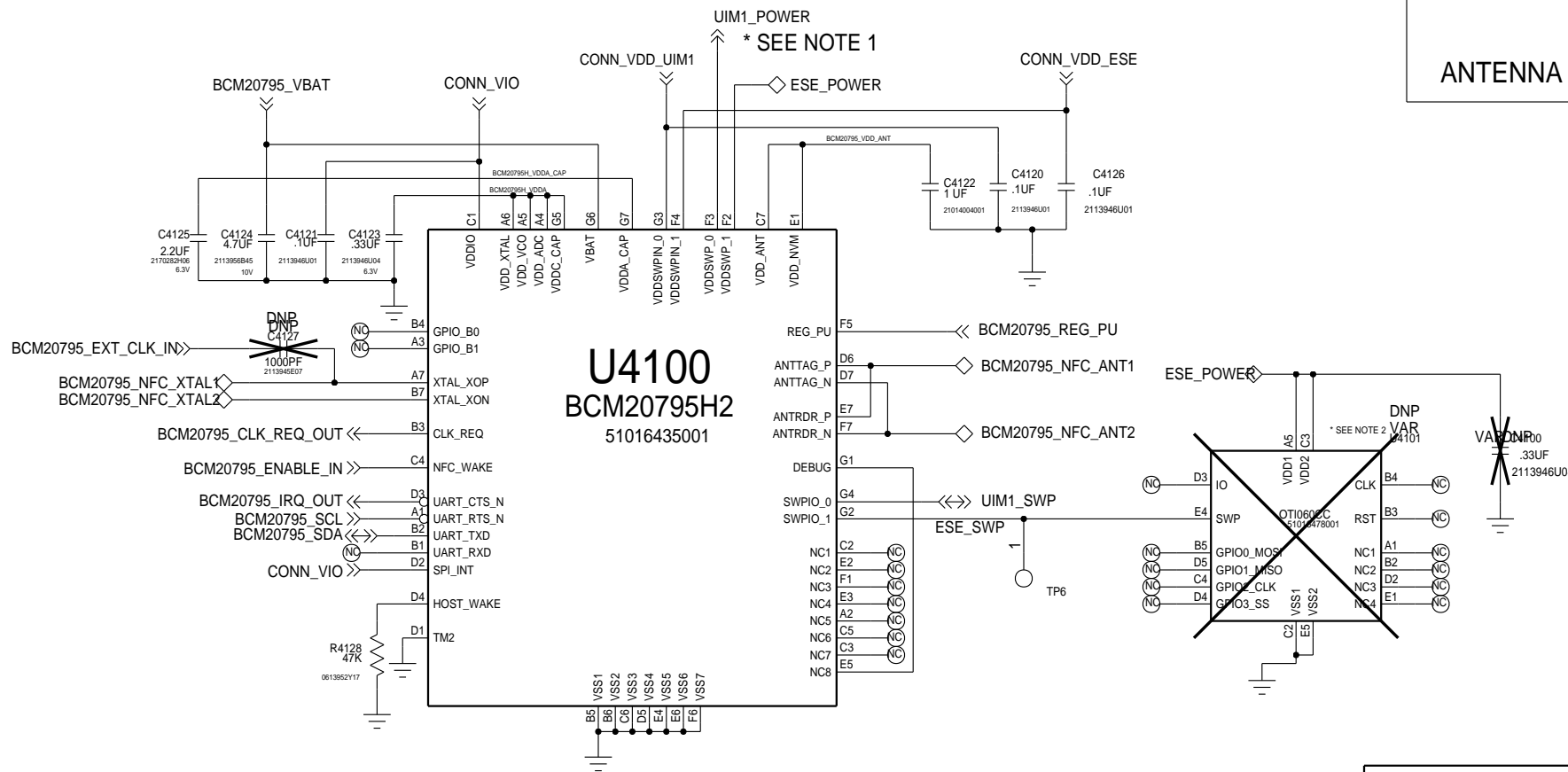
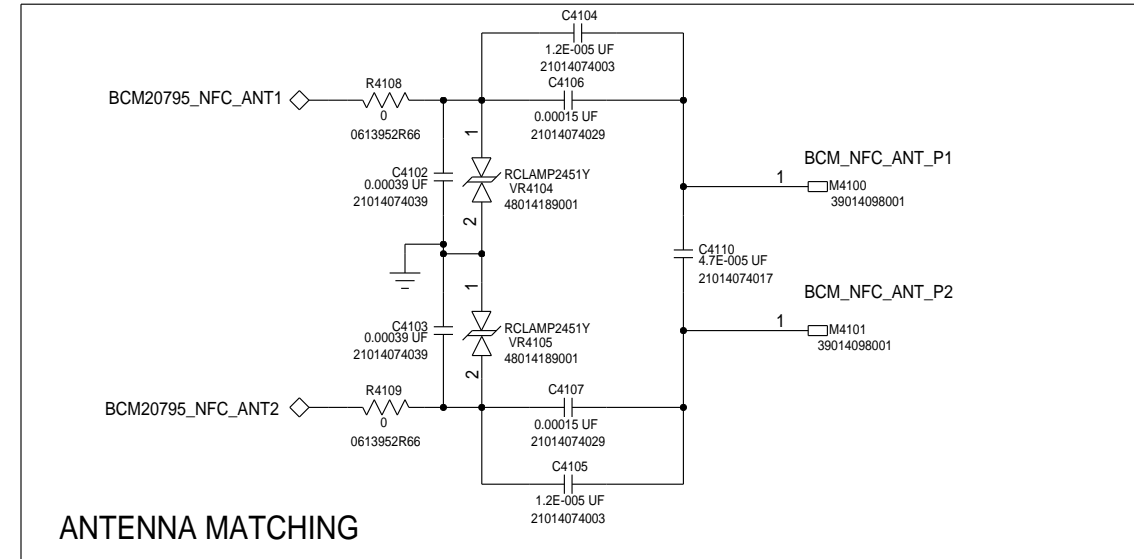
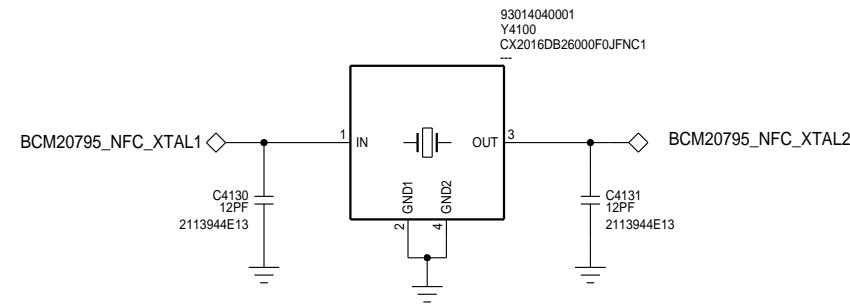
CONN: BCM20795 NFC

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)



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

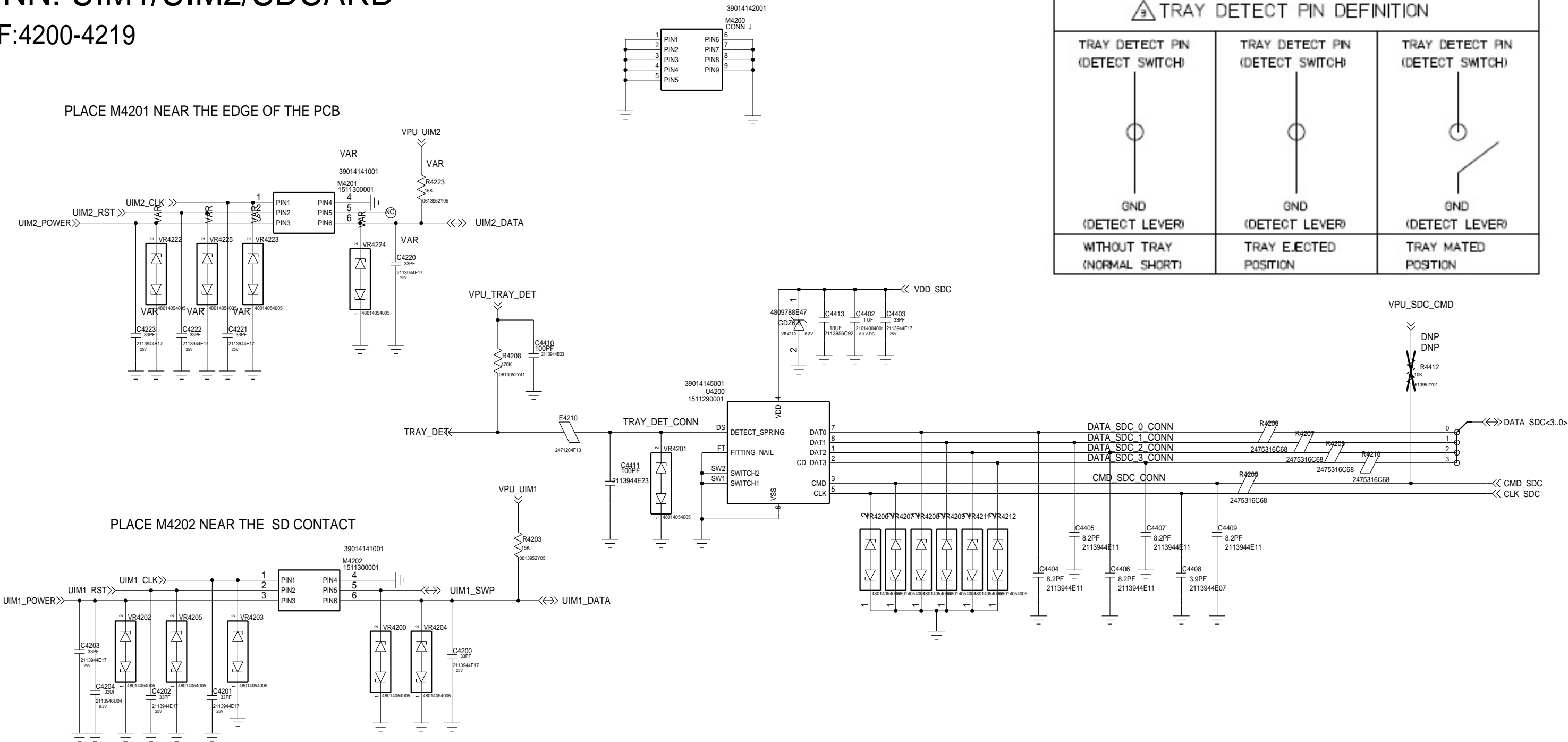
- NOTES:
- PER BROADCOM RECOMMENDATION, CAPACITANCE ON UIM1_POWER NET SHOULD BE 0.33UF. TOO LITTLE COMPROMISES REGULATOR STABILITY, TOO MUCH CAN CAUSE INADVERTENT POWER-ON RESETS AT VDD.
 - SECURE ELEMENT U4101 ONLY PLACED ON DSDA SKU (CHINA) REFER TO BELOW CHART:

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

APPROVALS			
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Wed Jun 10 14:32:32 2015		connectivity	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		PAGE 30 OF 78	

CONN: UIM1/UIM2/SDCARD

REF:4200-4219



PLACE M4201 NEAR THE EDGE OF THE PCB

PLACE M4202 NEAR THE SD CONTACT

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.

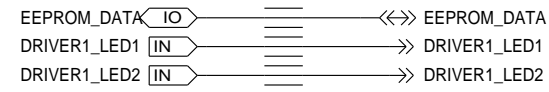
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 31 OF 78	

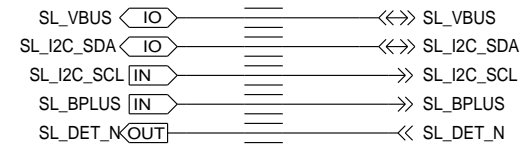
USR: PORTS

REF: 800-999

CAMERA_FLASH

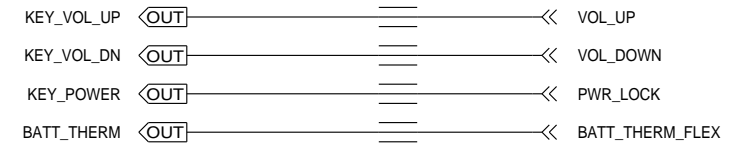



SLICE INTERFACES



GPIO - INPUT

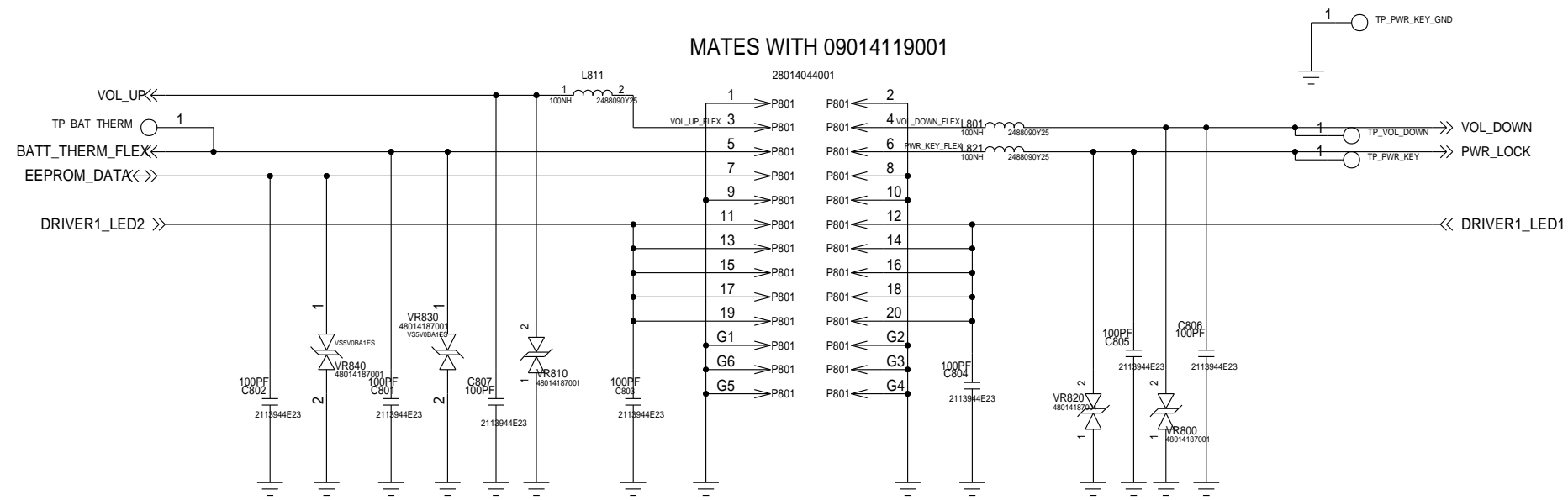
GPIO - OUTPUT



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		B 84016440001_b.cpm	01
		PAGE 40 OF 78	

USR: INPUT

REF: 800-899

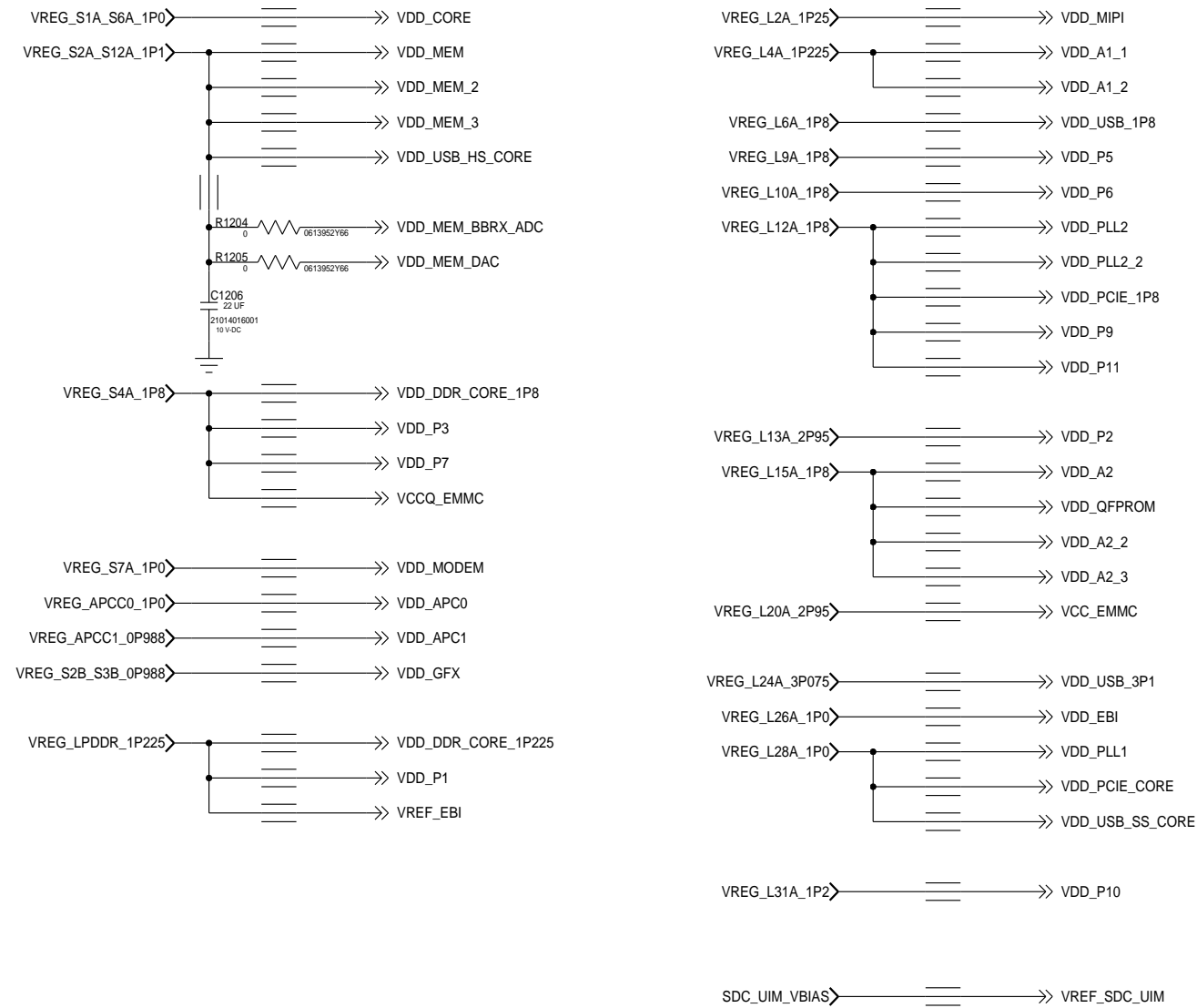


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		B 84016440001_b.cpm	01
		CAD FILE NAME:	
		PAGE 41 OF 78	

MSM8992: POWER

REFDES: 1200-1299

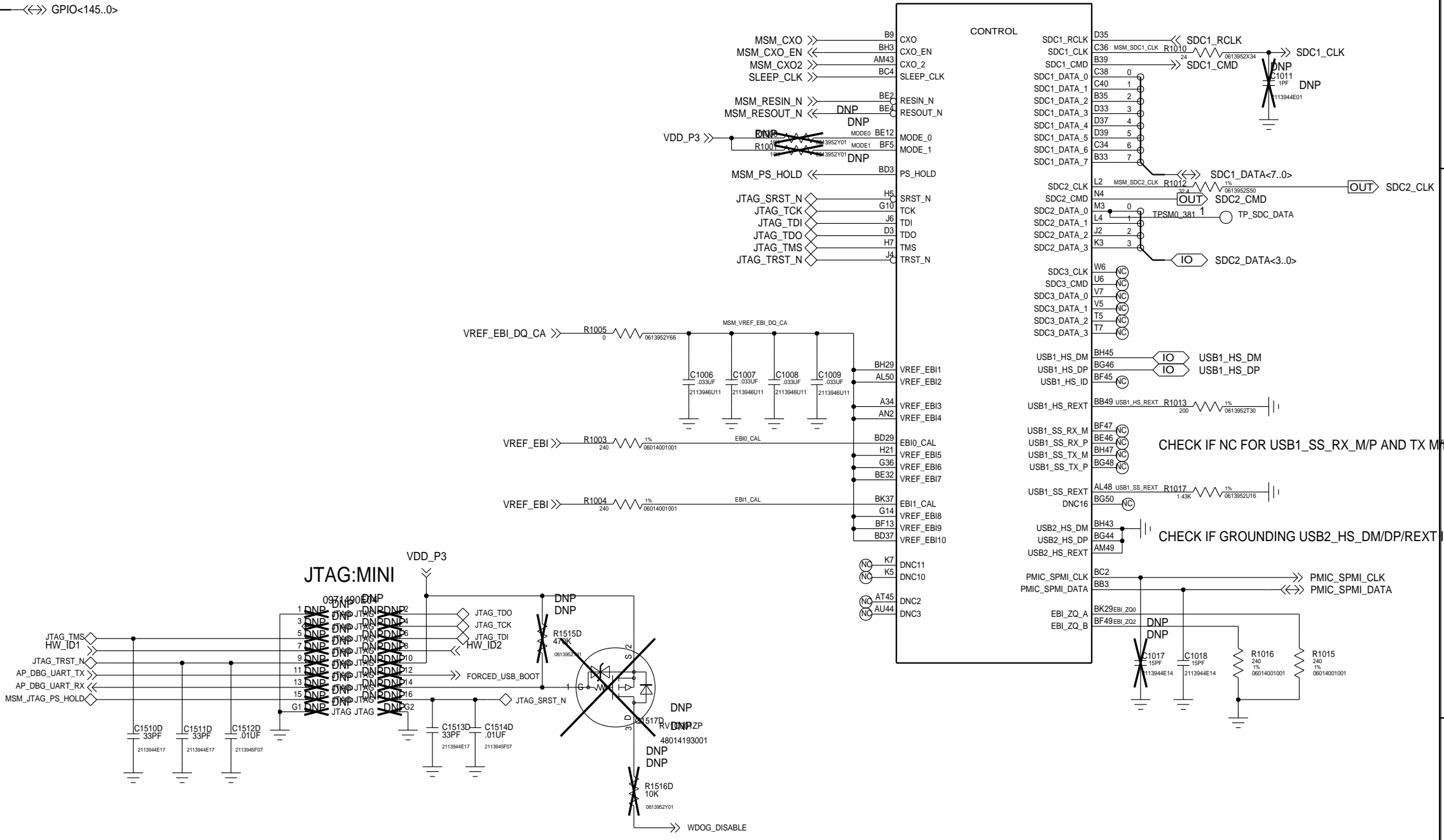
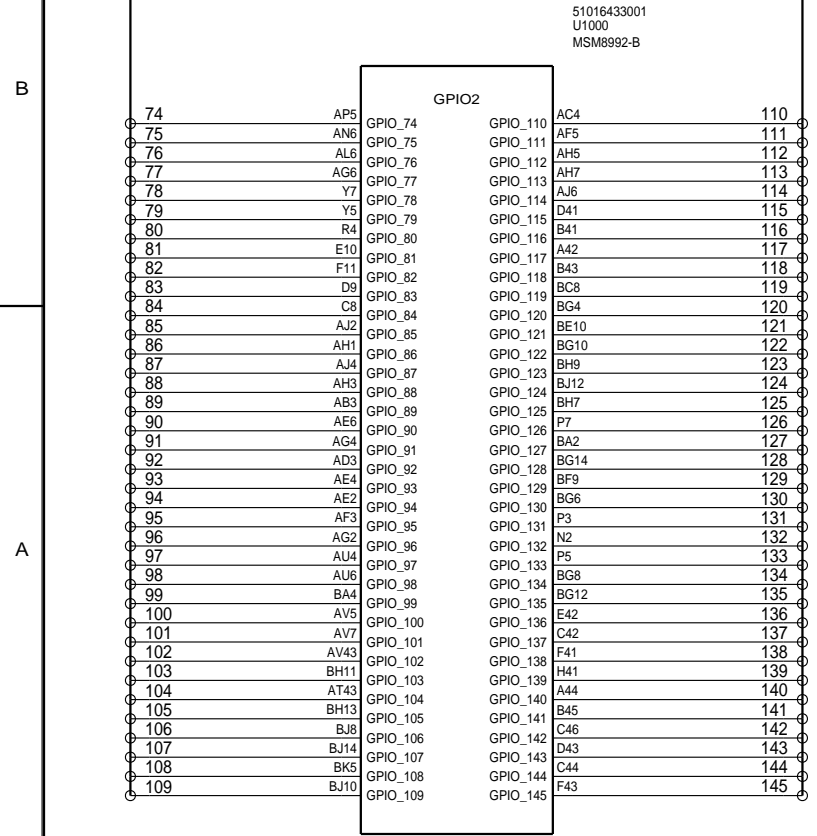
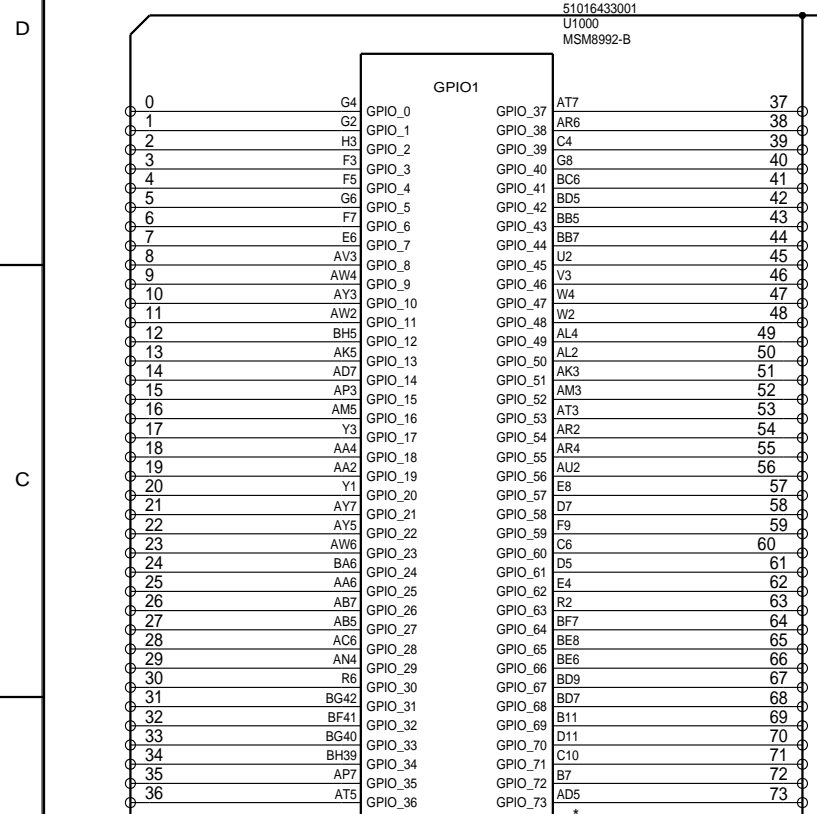
SUPPLIES



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		CAD FILE NAME:	
		PAGE 42 OF 78	


MSM8992: CTRL/USB/GPIO

REFDES: 1000-1099



BASED ON 80-NJ052-41 REV. A

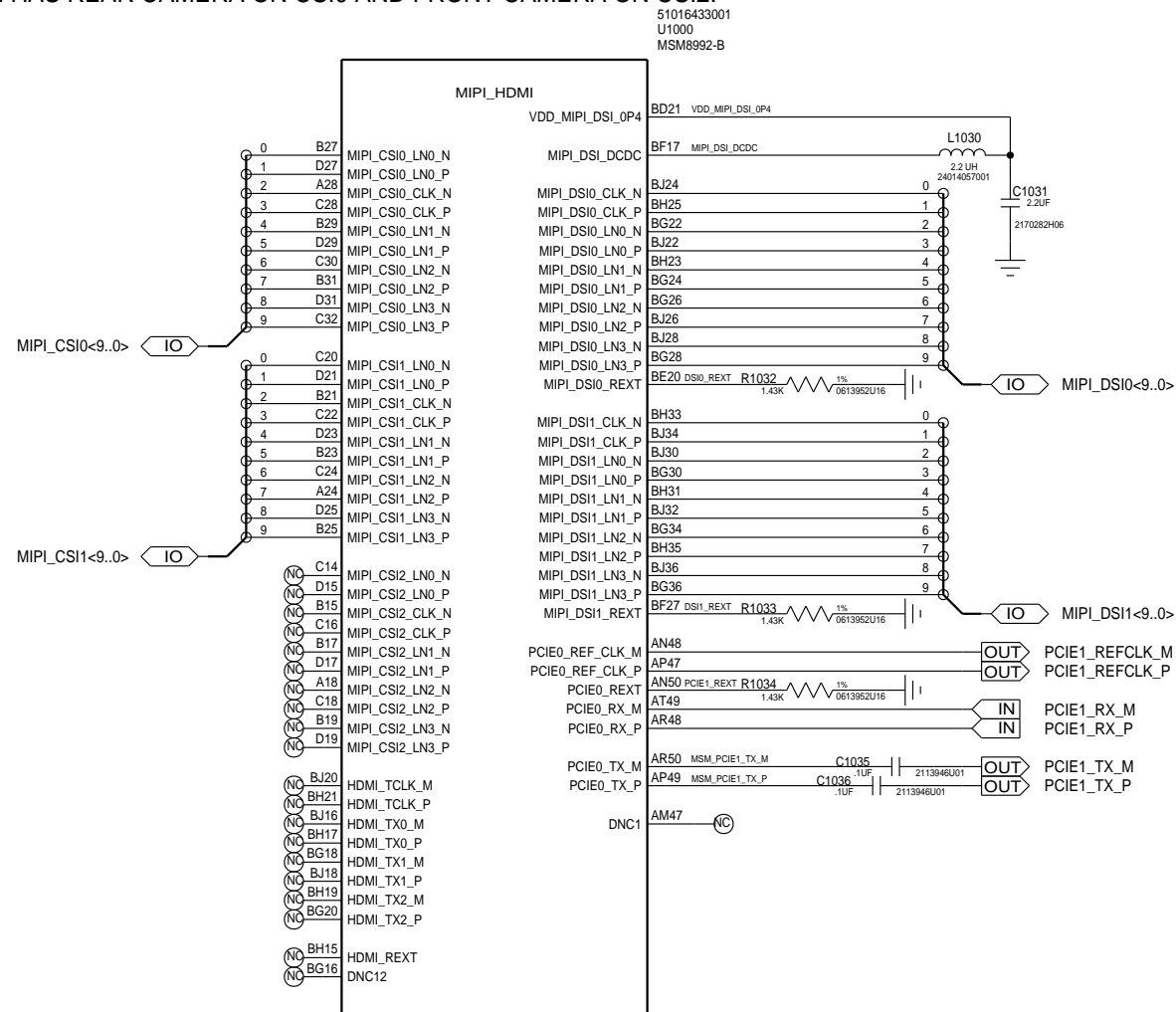
U1001
51016438001
H9CKNNNDATMTDR-NUH
POP DDR

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ENGINEER:	BLOCK TITLE: ap_pmic
LAST MODIFIED BY: Wed Jun 10 14:31:52 2015	PROJECT NAME 84016440001_b.cpm
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	REV 01
CAD FILE NAME:	
PAGE 43 OF 78	

MSM8992: MIPI/HDMI/PCIE

REFDES: 1030-1039

QCOM REFERENCE DESIGN HAS REAR CAMERA ON CS10 AND FRONT CAMERA ON CS12.



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

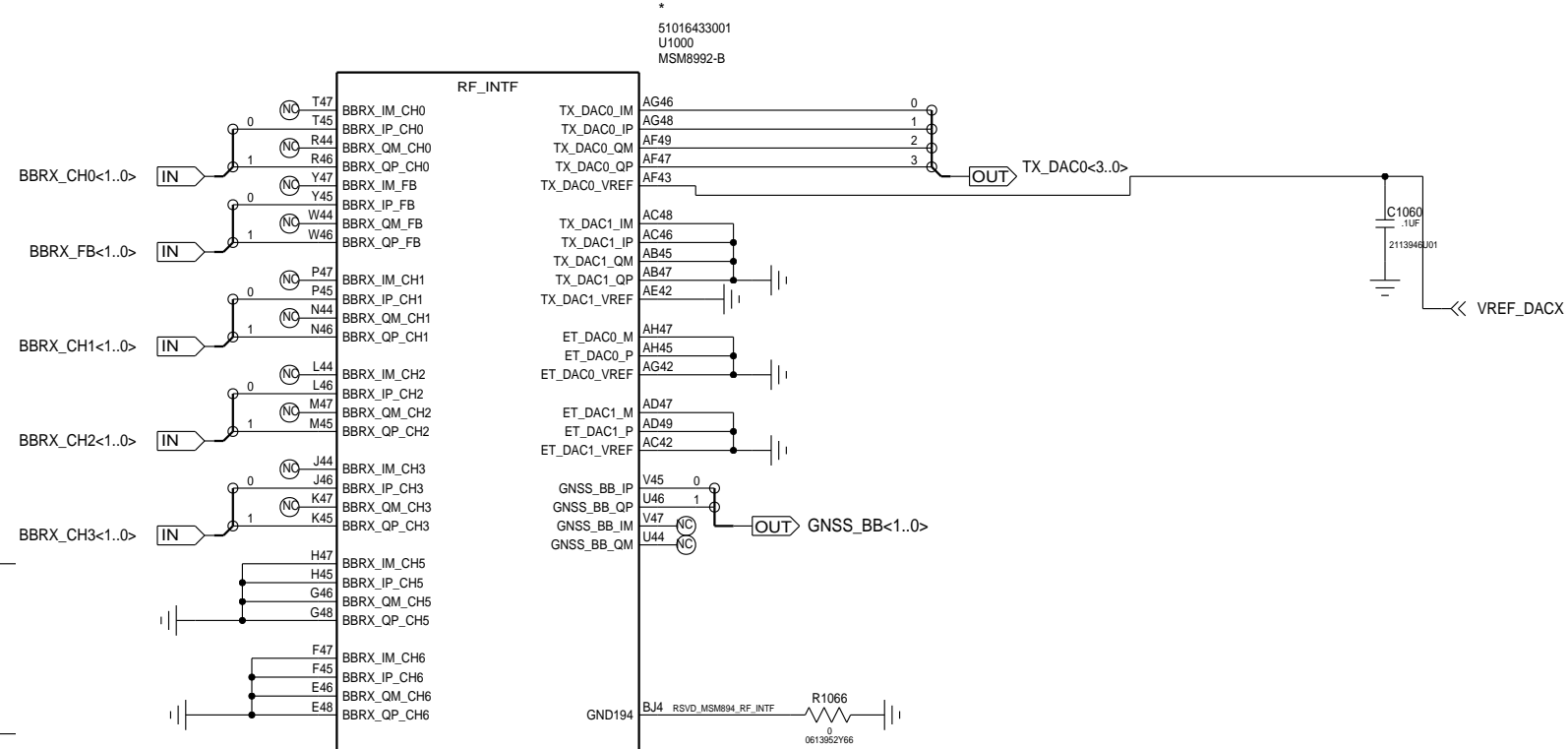
BASED ON 80-NJ052-41 REV. A

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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 44 OF 78	

MSM8992: RF INTERFACE

REFDES: 1040-1049



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY:		ap_pmic	
Wed Jun 10 14:31:53 2015		PROJECT NAME	
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		PAGE 45 OF 78	

BASED ON 80-NJ051-41 REV. B

MSM8992: POWER 1

8 7 6 5 4 3 2 1

D

C

B

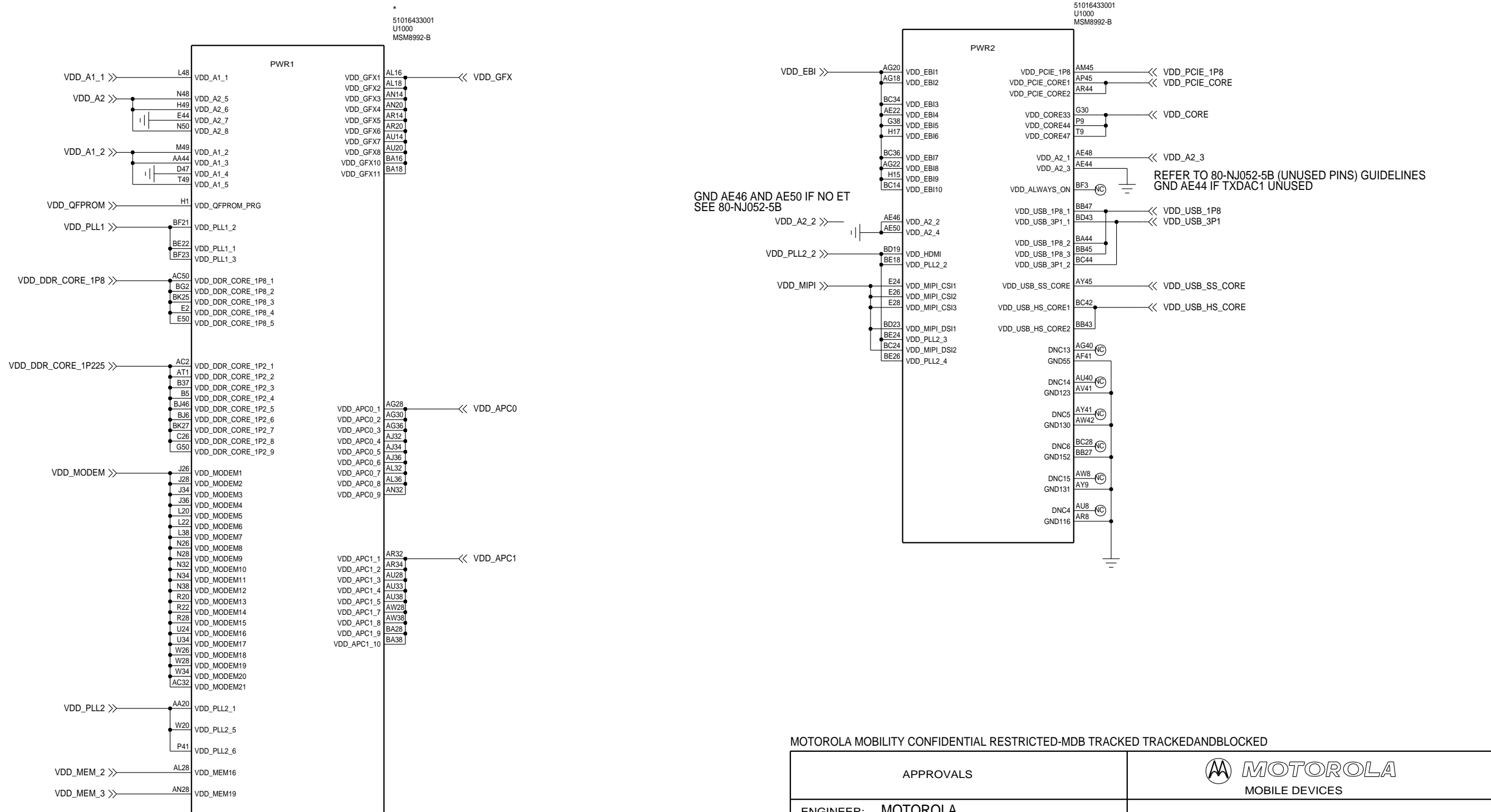
A

D

C

B

A



GND AE46 AND AE50 IF NO ET
SEE 80-NJ052-5B

REFER TO 80-NJ052-5B (UNUSED PINS) GUIDELINES
GND AE44 IF TXDAC1 UNUSED

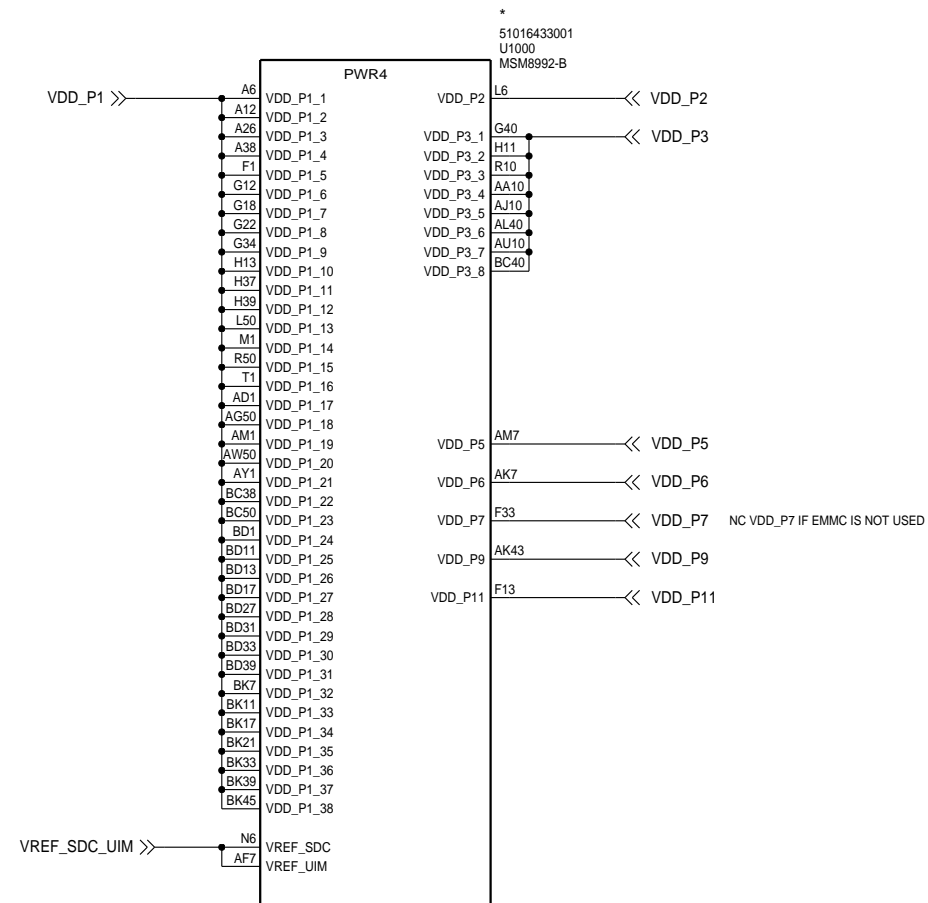
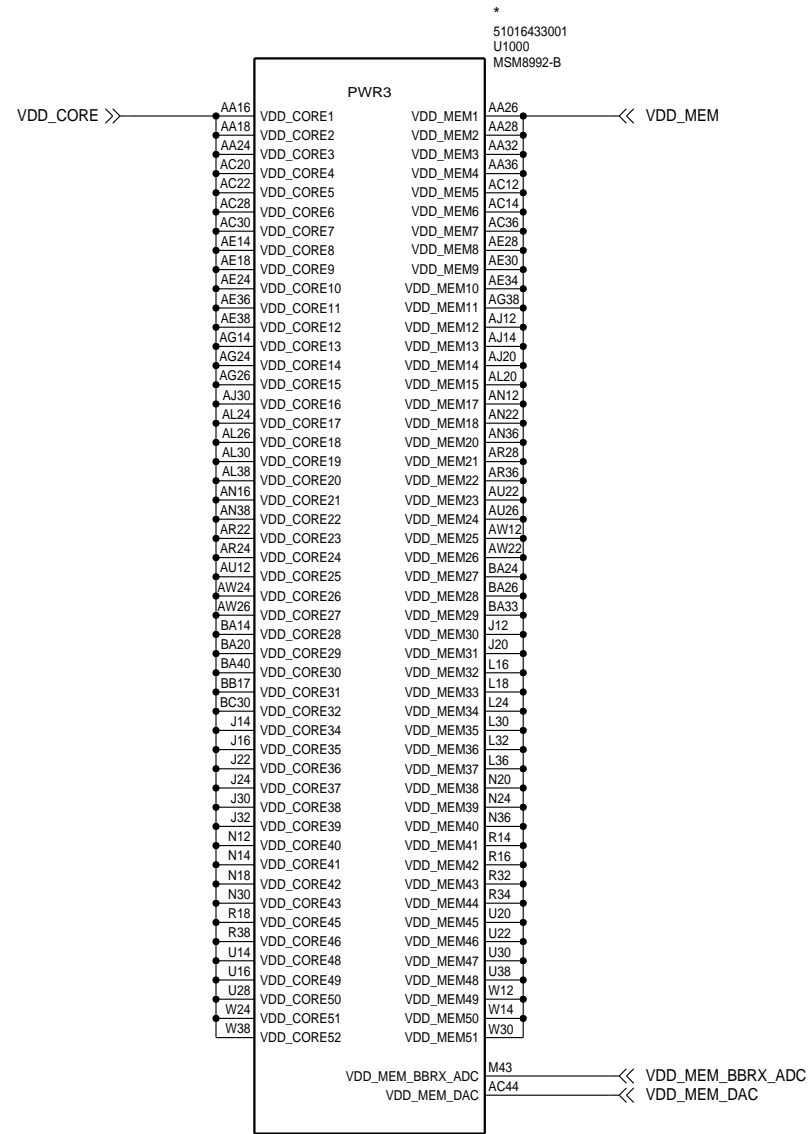
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 46 OF 78	

BASED ON 80-NJ052-41 REV. A

8 7 6 5 4 3 2 1

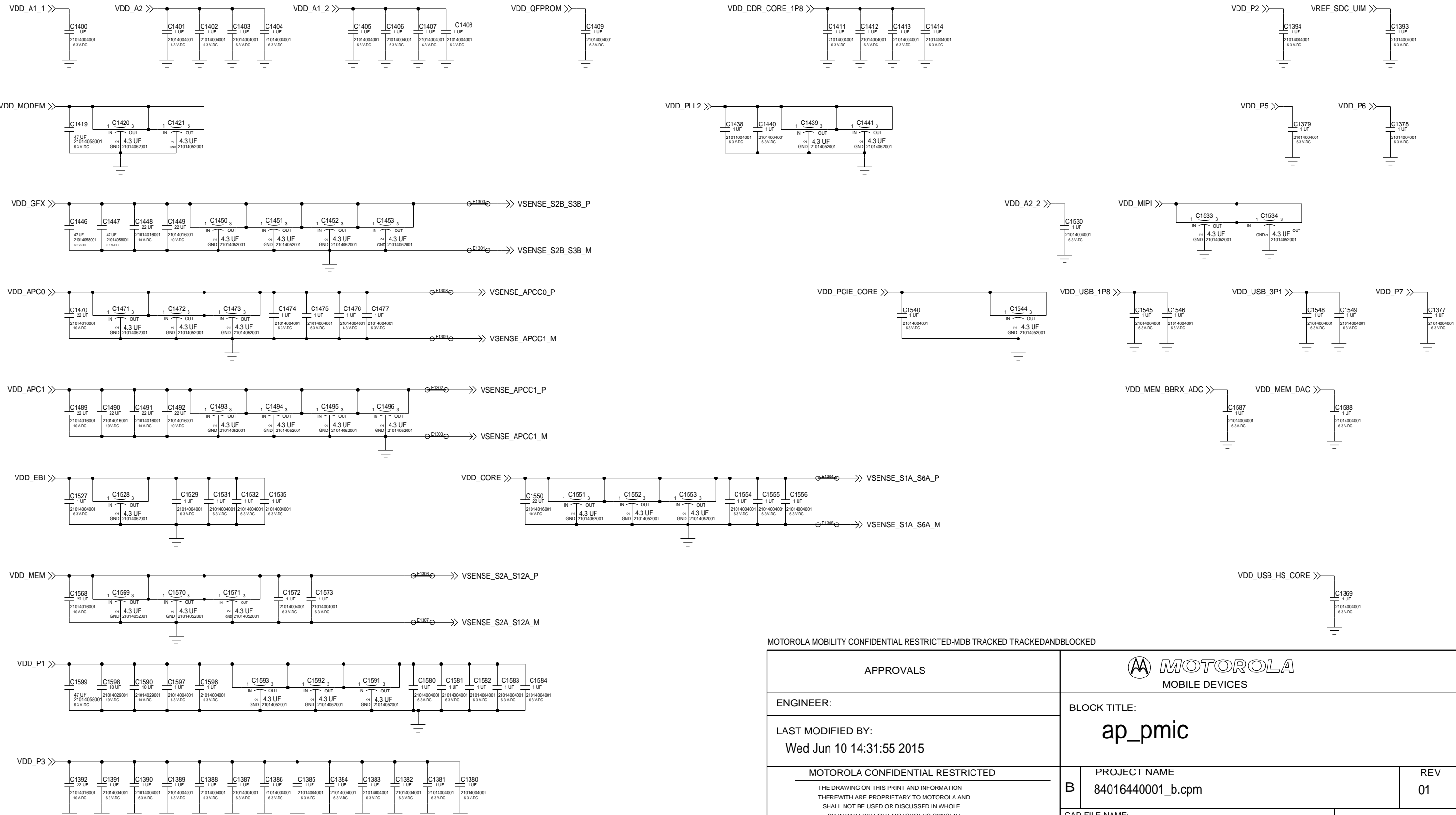
MSM8992: POWER 2



APPROVALS		 MOTOROLA MOBILE DEVICES	
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 47 OF 78	


MSM8992: BYPASS CAPS

REFDES: 1300-1599

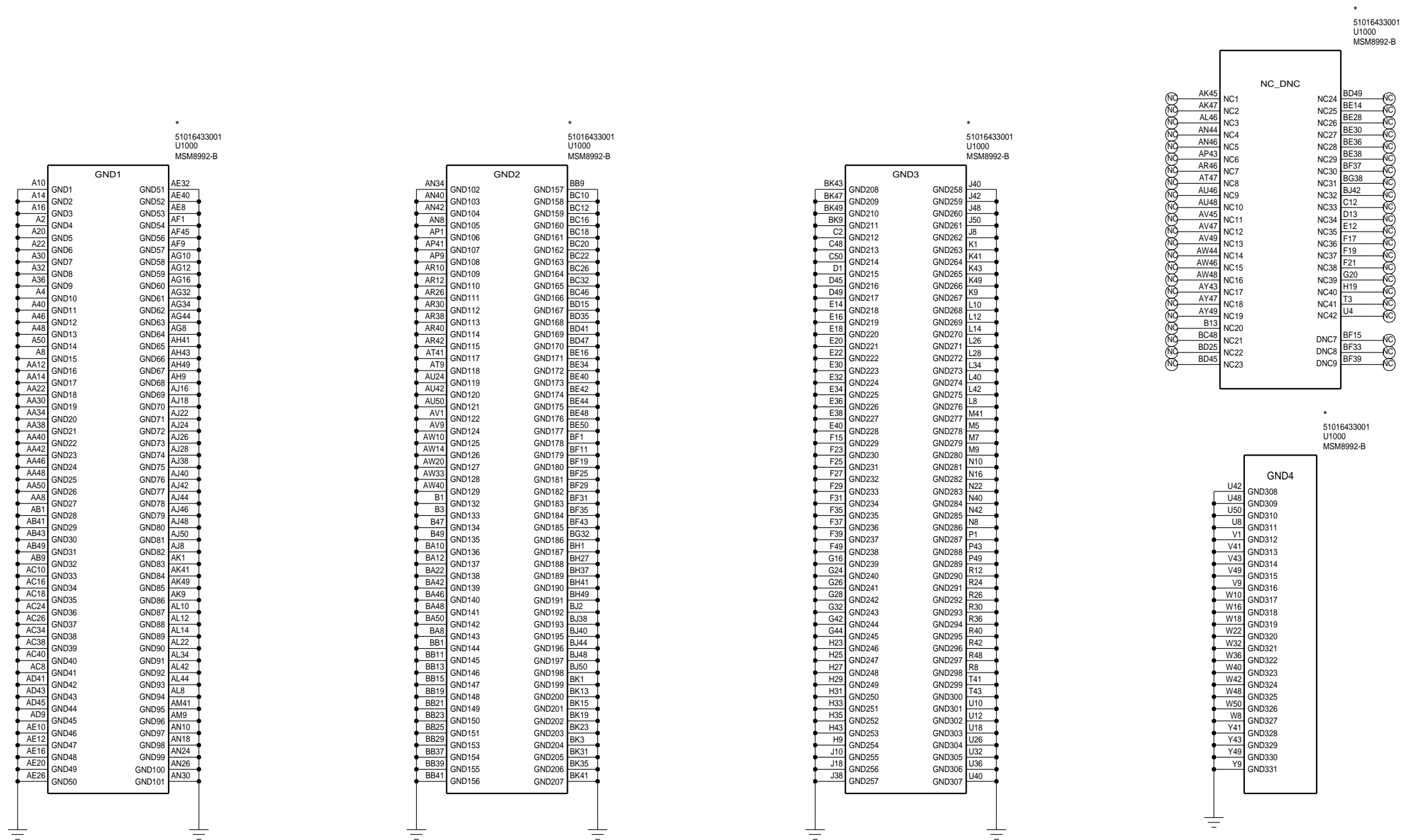


BASED ON 80-NJ051-41 REV. B

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CAD FILE NAME:		PAGE 48 OF 78	

MSM8992: GND/NC



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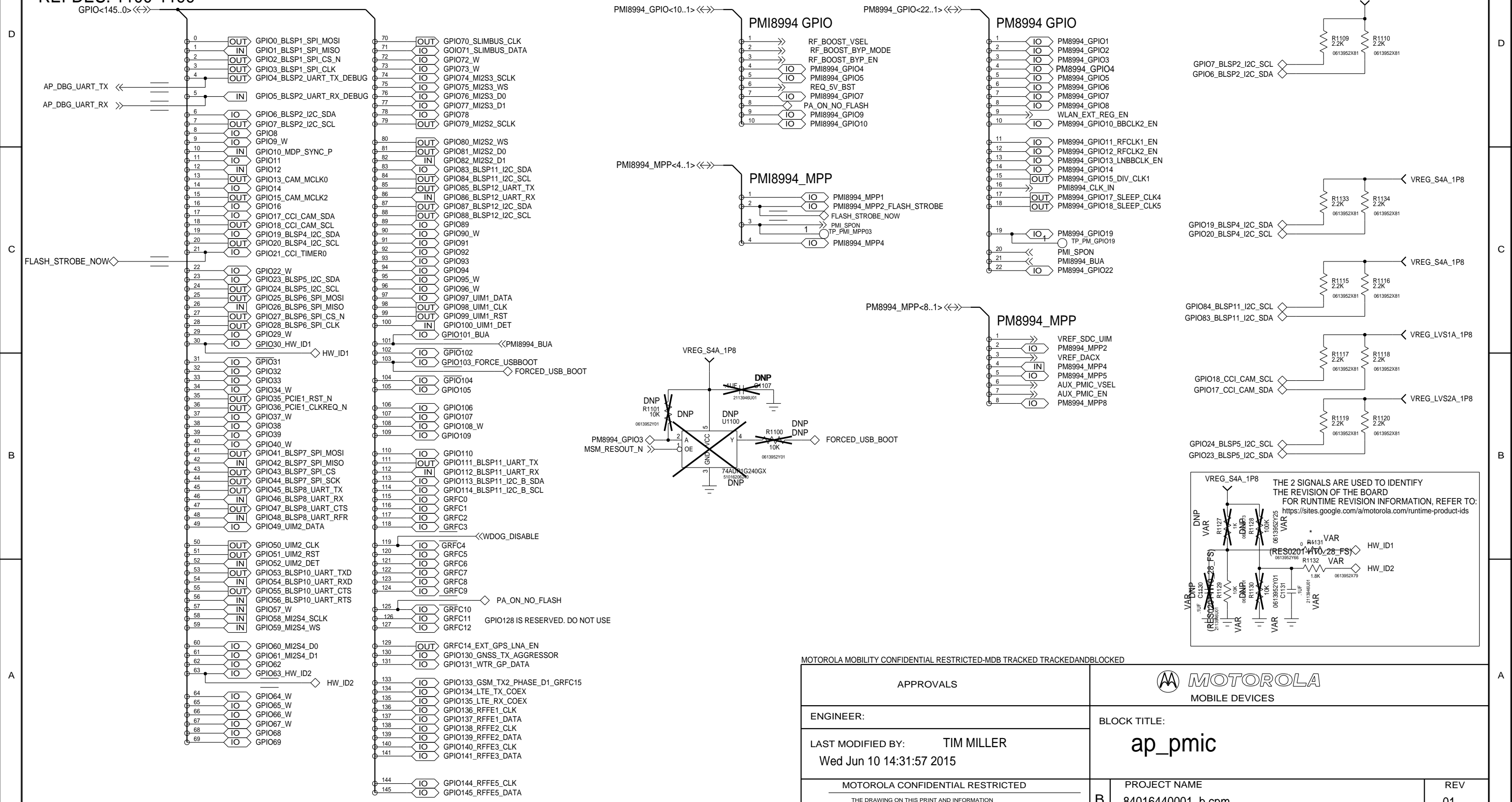
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		CAD FILE NAME:	PAGE 49 OF 78

BASED ON 80-NJ051-41 REV. A

MSM8992: GPIO MAP

PURPLE=MOT CUSTOM
CYAN=QCOM REFERENCE

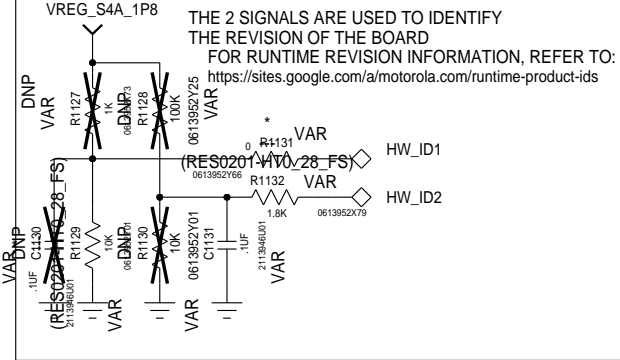
REFDES: 1100-1199



BASED ON 80-NJ051-41 REV. B

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

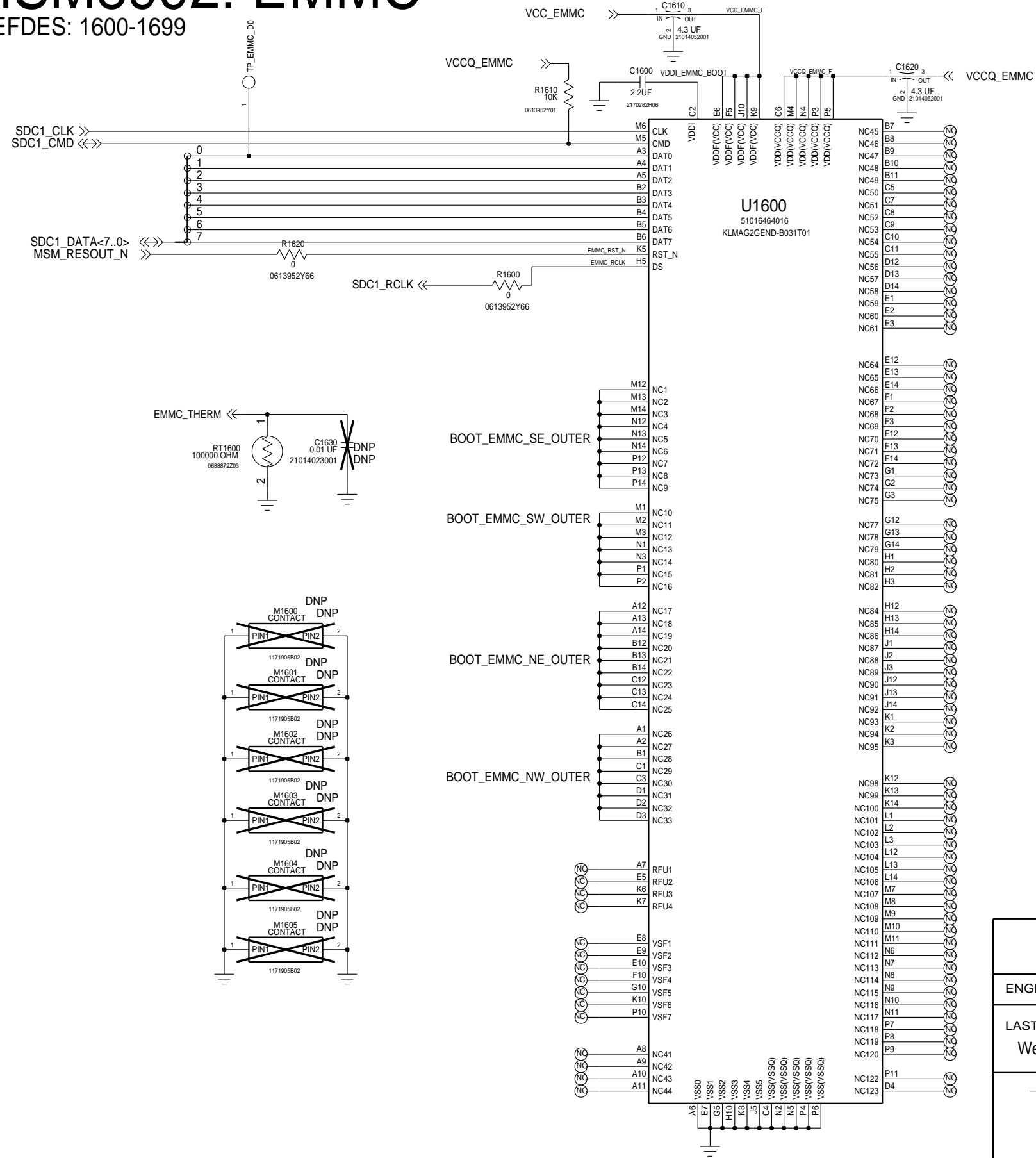
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CAD FILE NAME:		PAGE 50 OF 78	



THE 2 SIGNALS ARE USED TO IDENTIFY THE REVISION OF THE BOARD FOR RUNTIME REVISION INFORMATION, REFER TO: <https://sites.google.com/a/motorola.com/runtime-product-ids>

MSM8992: EMMC

REFDES: 1600-1699



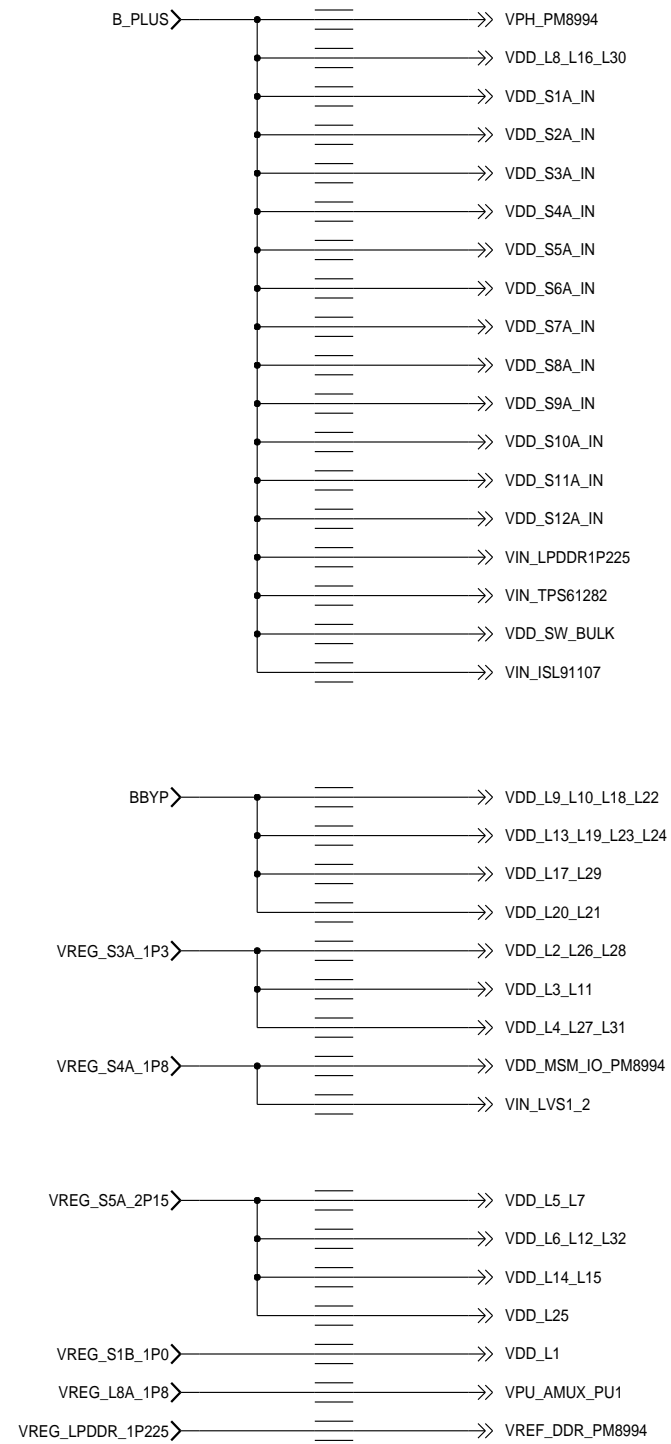
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LAST MODIFIED BY: MOTOROLA Wed Jun 10 16:57:59 2015		ap_pmic	
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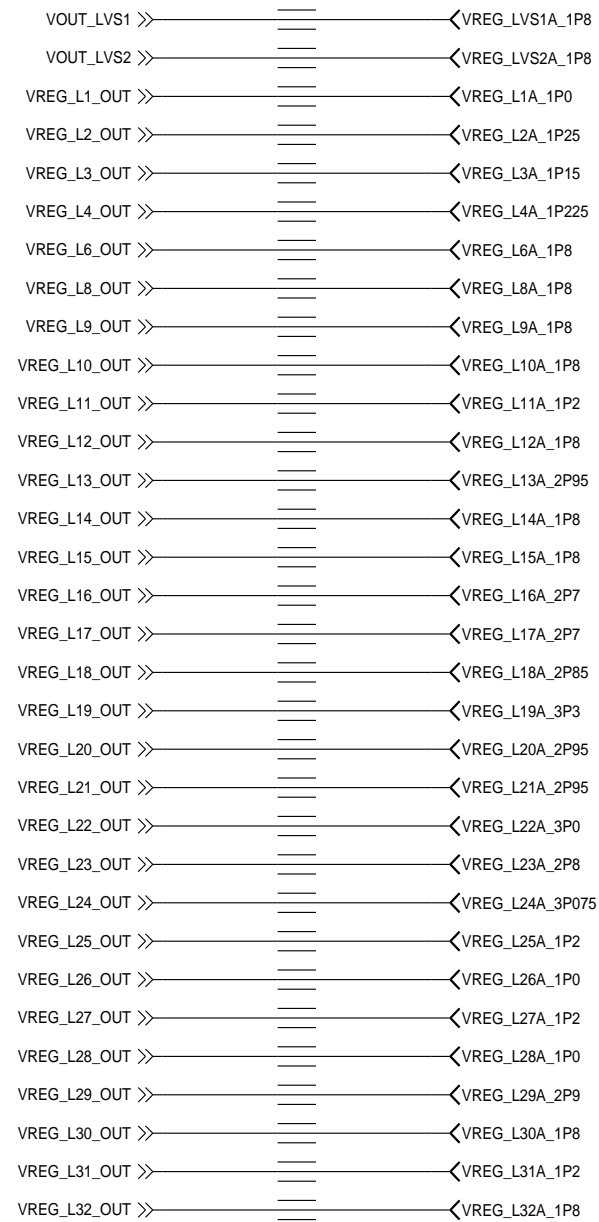
PM8994: POWER

REFDES: 2300-2399

INPUT POWER



OUTPUT POWER



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
Wed Jun 10 14:31:59 2015

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BLOCK TITLE:

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PROJECT NAME

B 84016440001_b.cpm

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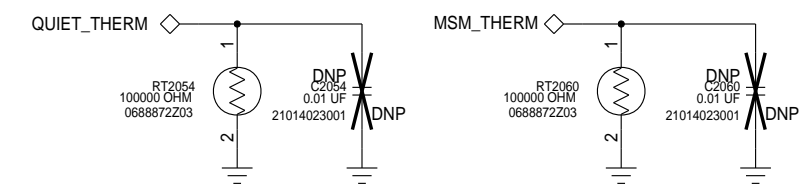
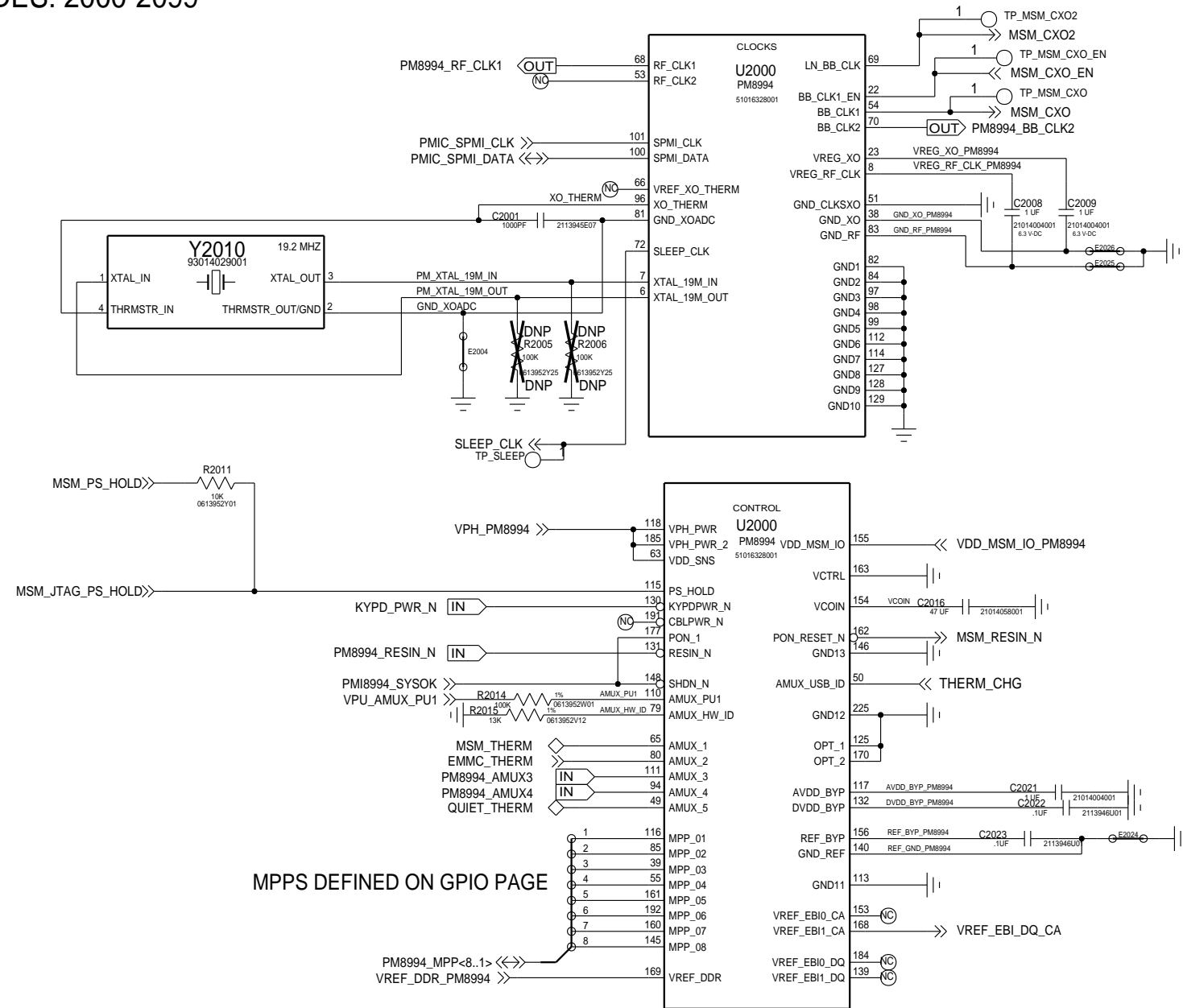
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CAD FILE NAME:

PAGE 52 OF 78

PM8994: CLK/CTRL/GPIO

REFDES: 2000-2099

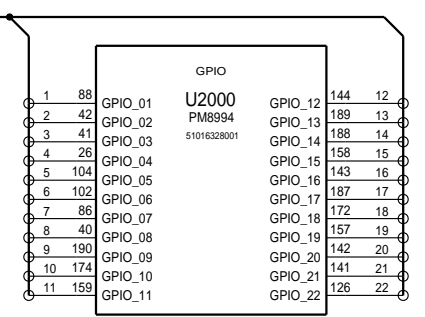


MPPS DEFINED ON GPIO PAGE

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



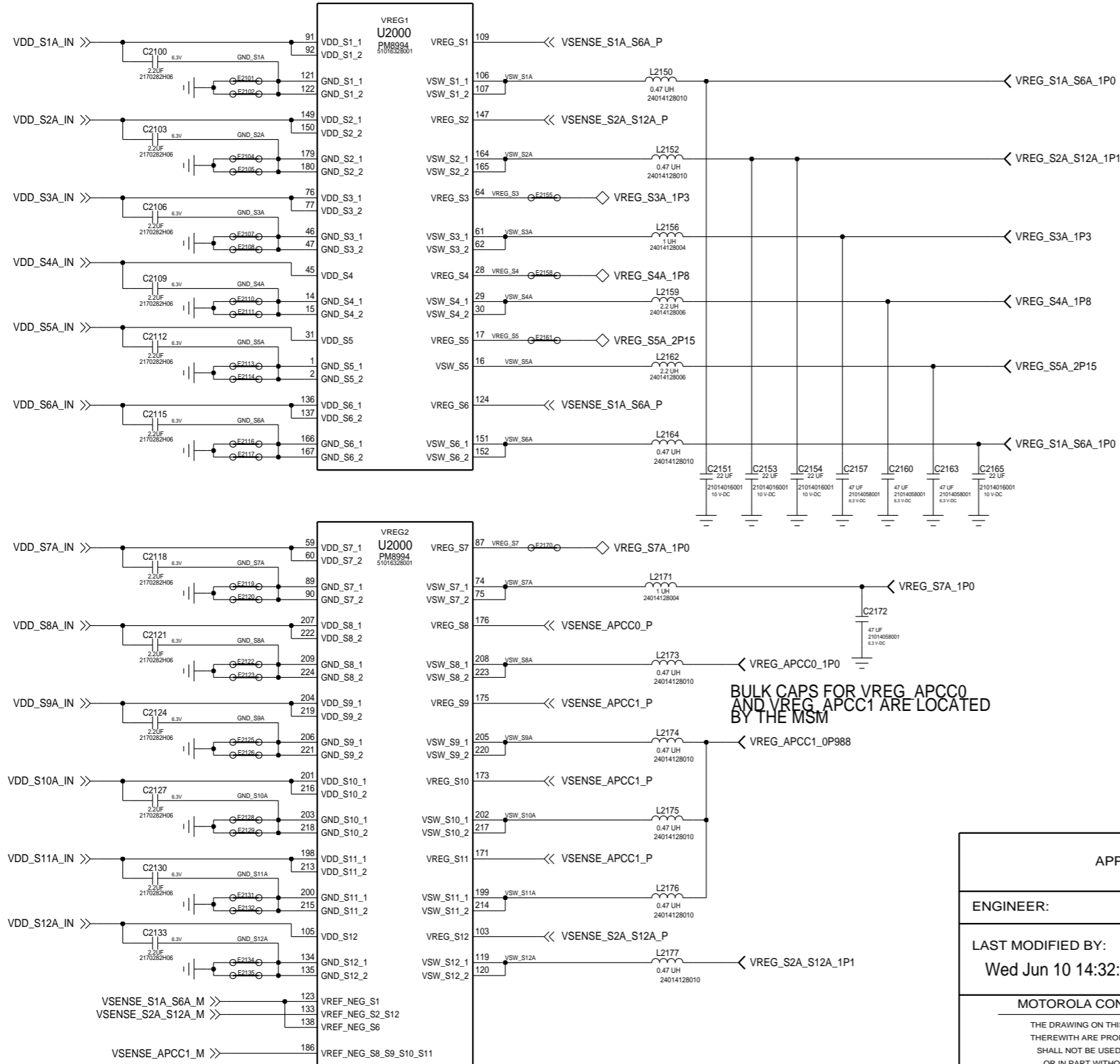
BASED ON 80-NJ051-41 REV. B

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CAD FILE NAME:		PAGE 53 OF 78	

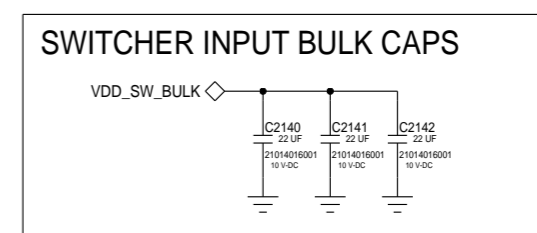
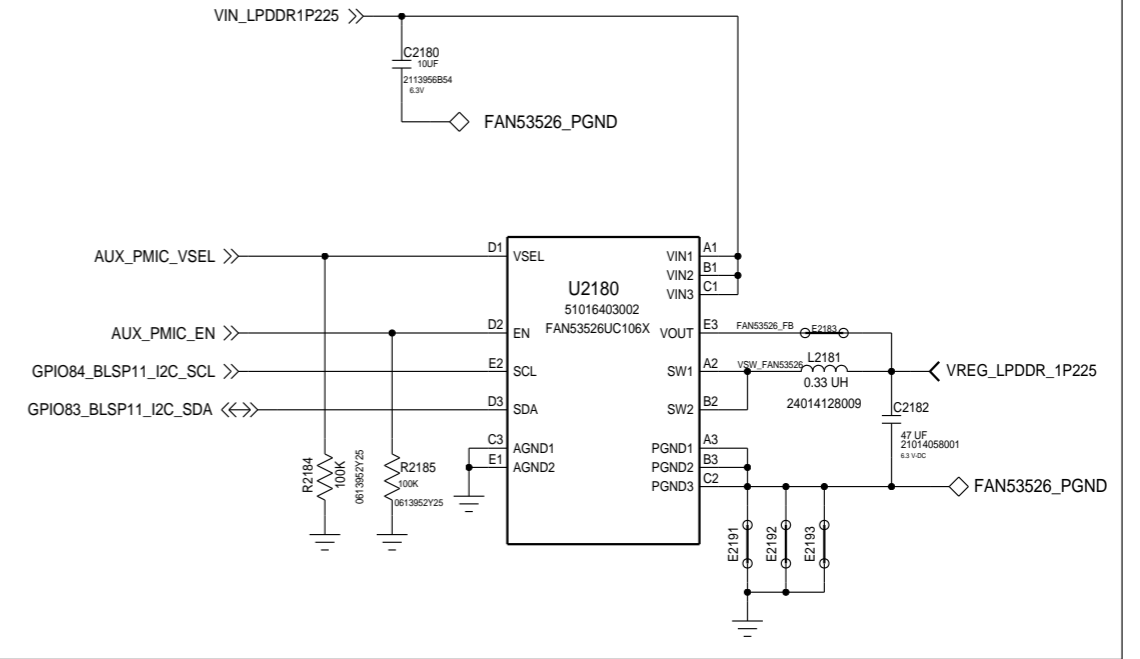
PM8994: SMPS

REFDES: 2100-2199



VREG_LPDDR3 EXTERNAL REGULATOR

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

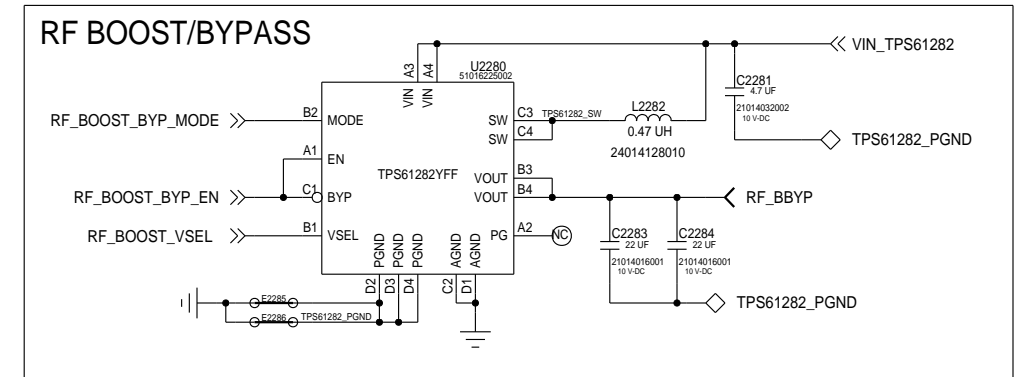
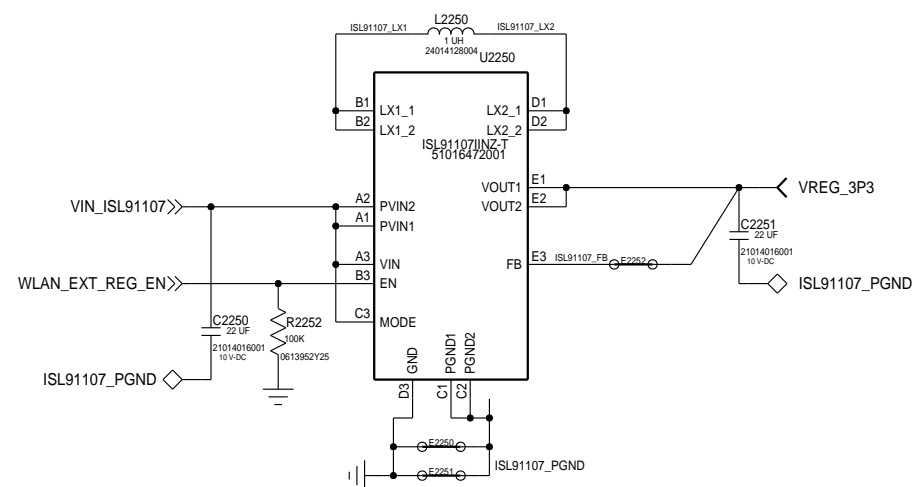
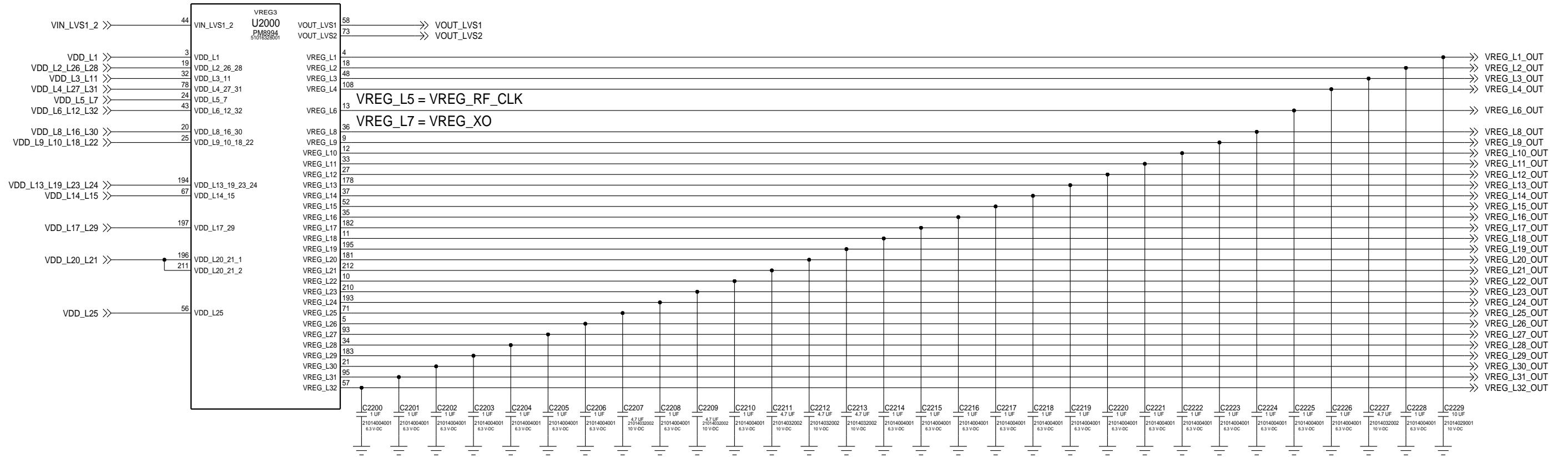


BASED ON 80-NJ051-41 REV. B

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B		84016440001_b.cpm	01
CAD FILE NAME:		PAGE 54 OF 78	

PM8994: VREGS

REFDES: 2200-2299



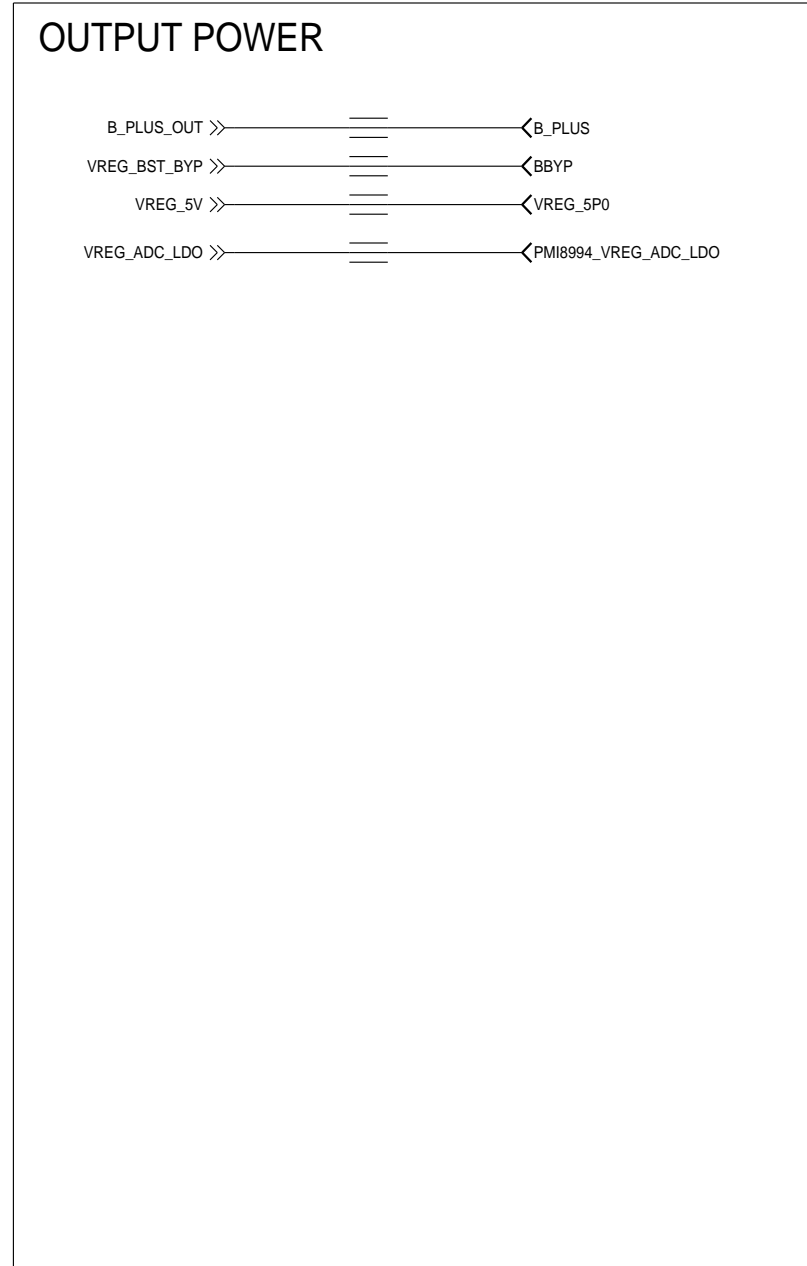
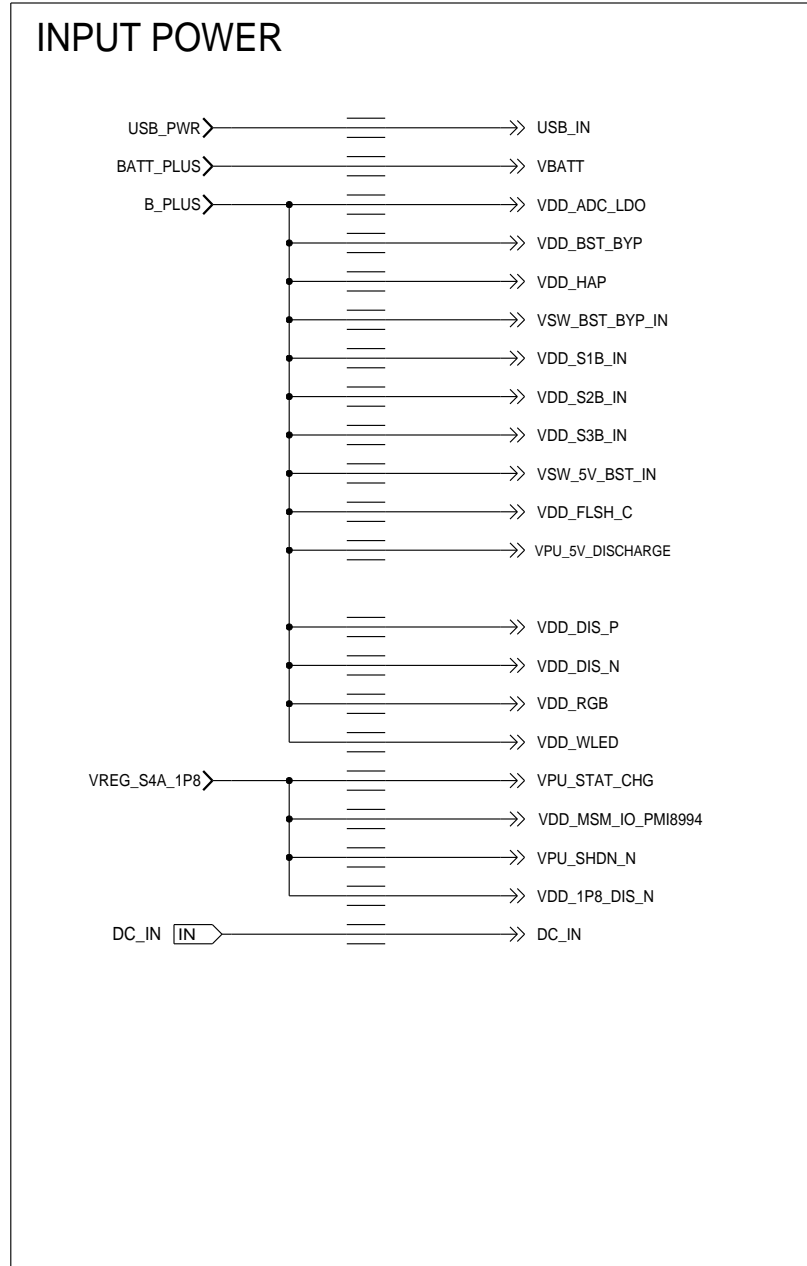
BASED ON 80-NJ051-41 REV. B

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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		B 84016440001_b.cpm	01
		CAD FILE NAME:	
		PAGE 55 OF 78	

PMI8994: POWER

REFDES: 2400-2499



APPROVALS

ENGINEER: NATE CONNELL

LAST MODIFIED BY: NATE CONNELL
Wed Jun 10 14:32:05 2015

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BLOCK TITLE:

ap_pmic

PROJECT NAME
B 84016440001_b.cpm

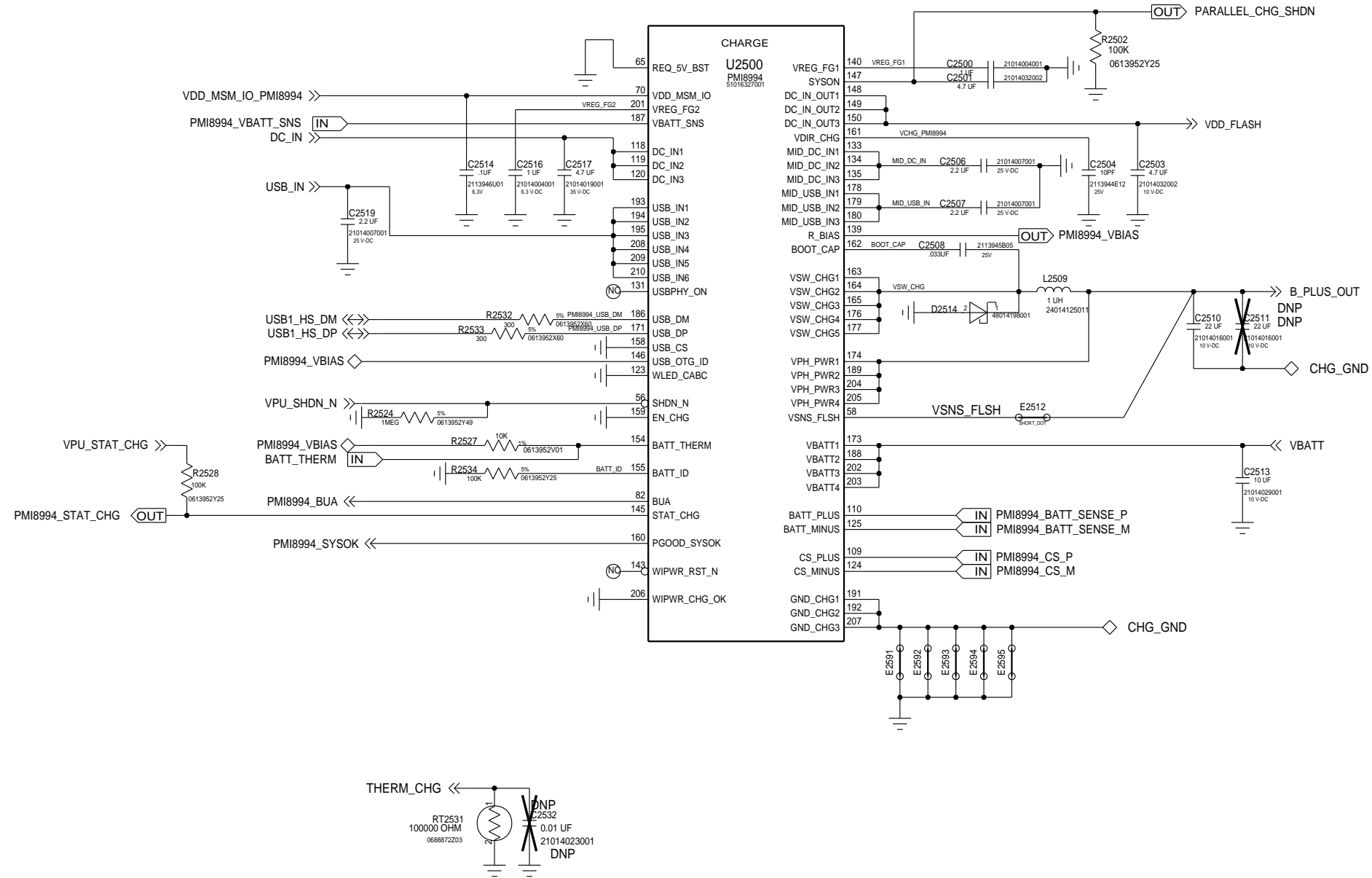
REV
01

CAD FILE NAME:

PAGE 56 OF 78

PMI8994: CHG/USB

REFDES: 2500-2599

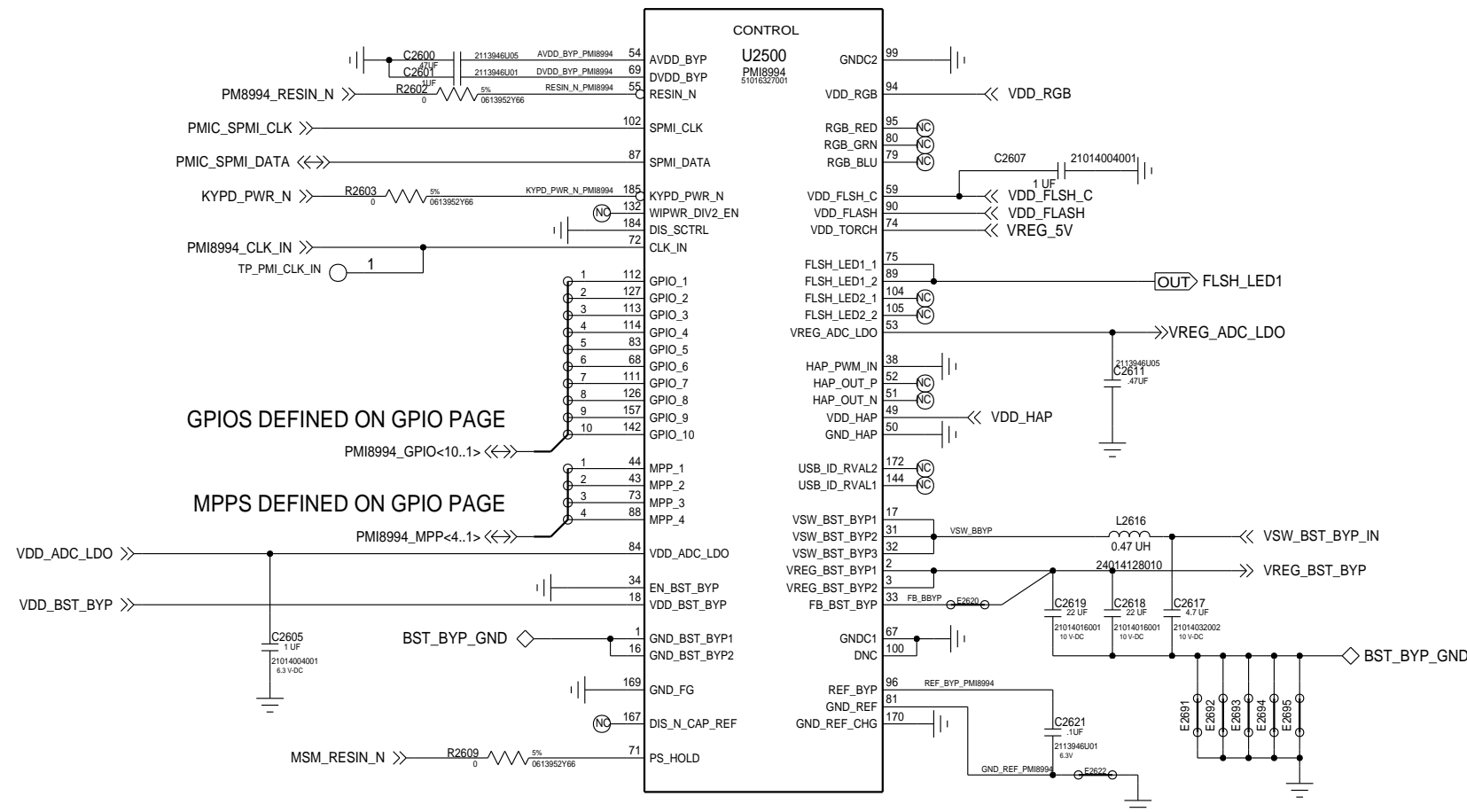


BASED ON 80-NJ051-41 REV. B

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:07 2015		ap_pmic	
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		CAD FILE NAME:	
		PAGE 57 OF 78	

PMI8994: GPIO/LED/RGB

REFDES: 2600-2699

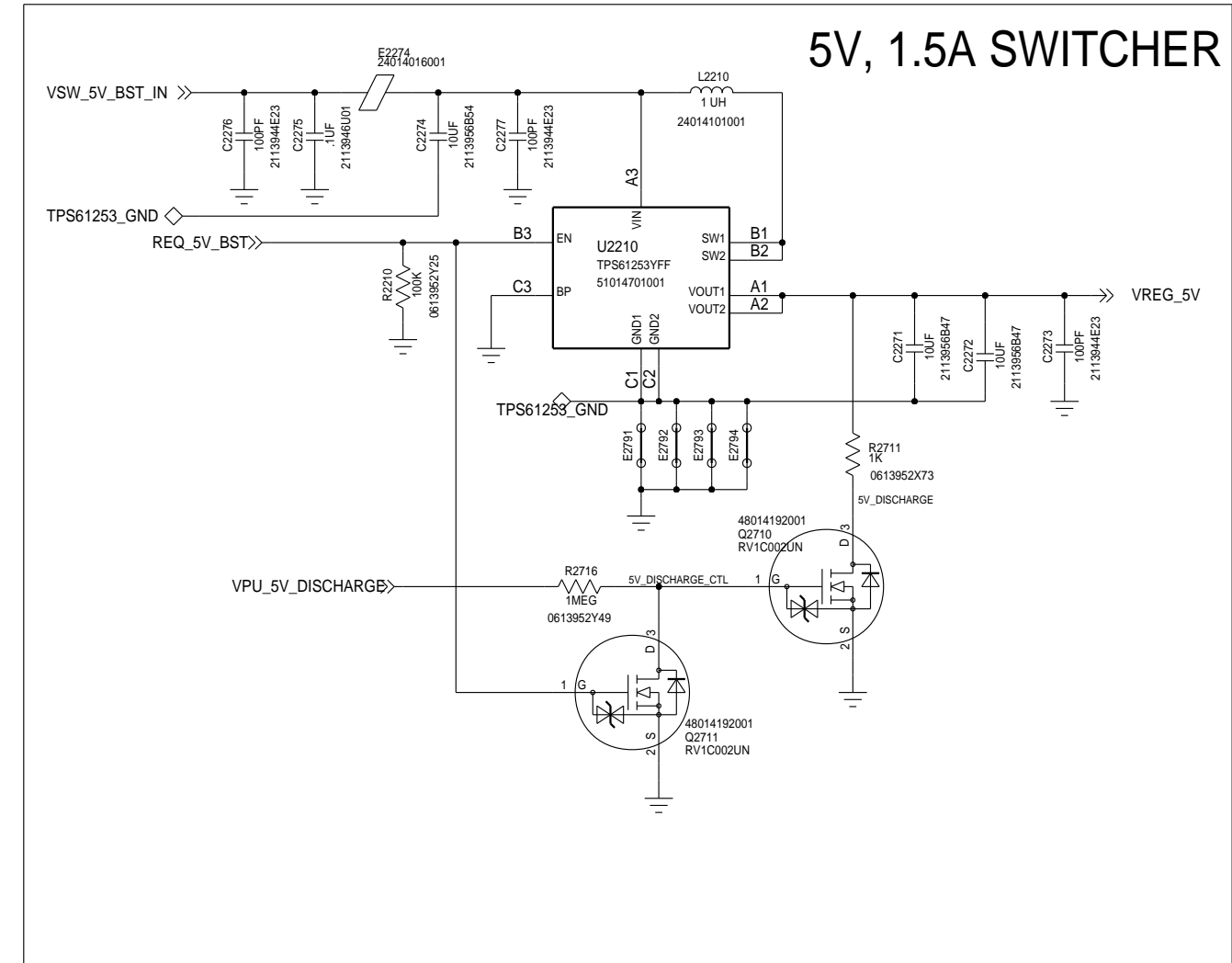
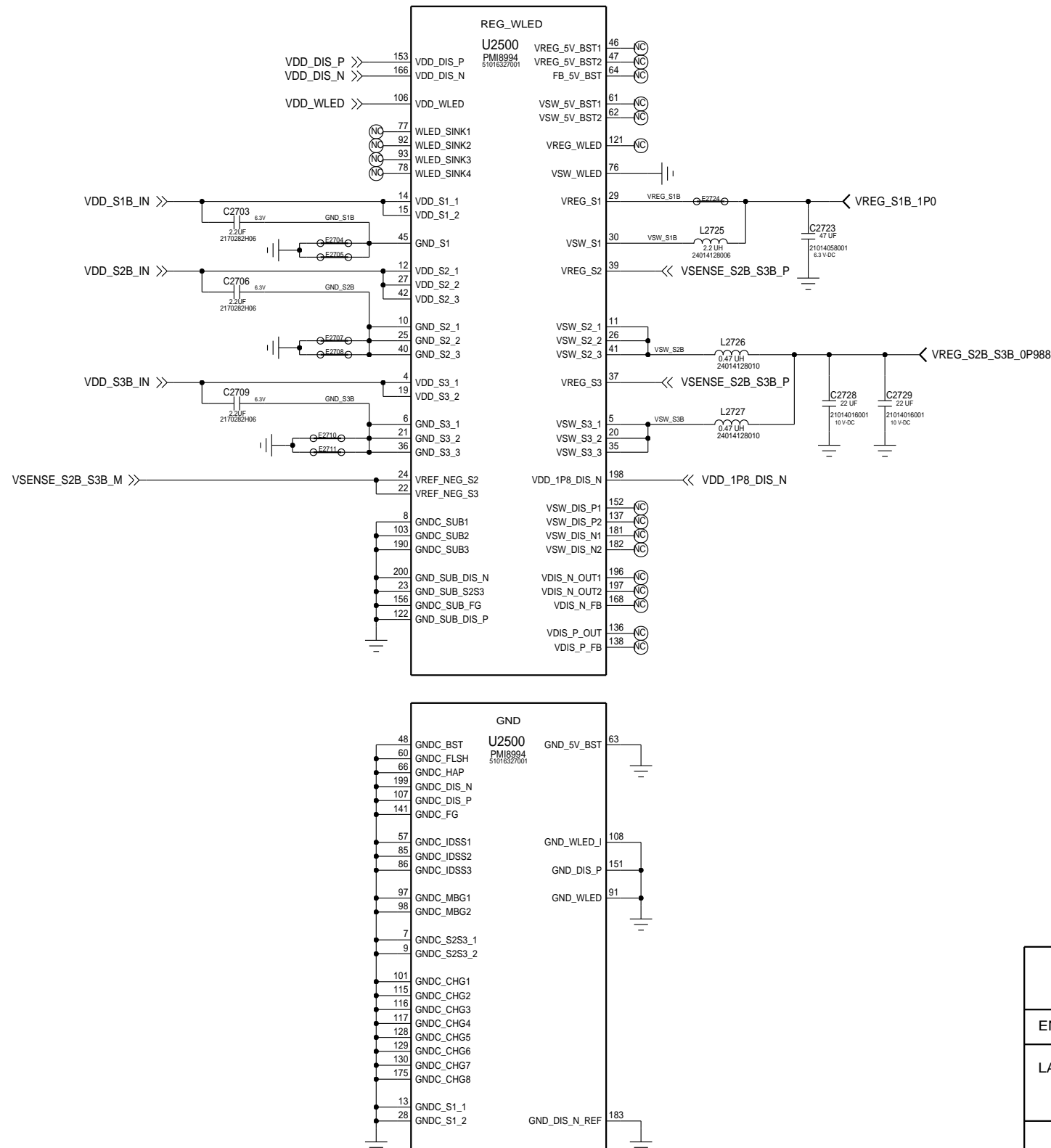


BASED ON 80-NJ051-41 REV. B

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:08 2015		ap_pmic	
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		CAD FILE NAME:	
		PAGE 58 OF 78	

PMI8994: REF/WLED/GND

REFDES: 2700-2799

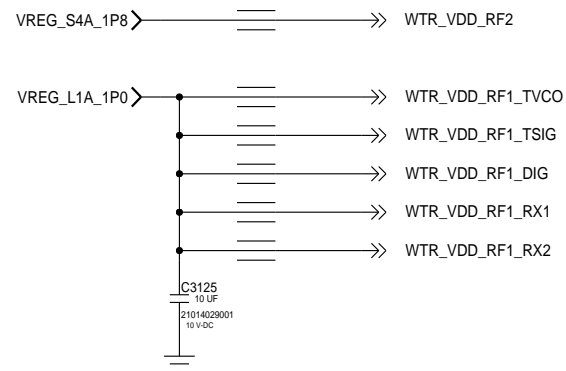


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Wed Jun 10 14:32:09 2015		ap_pmic	
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CAD FILE NAME:		PAGE 59 OF 78	

WTR3925: POWER

REF 3120-3199

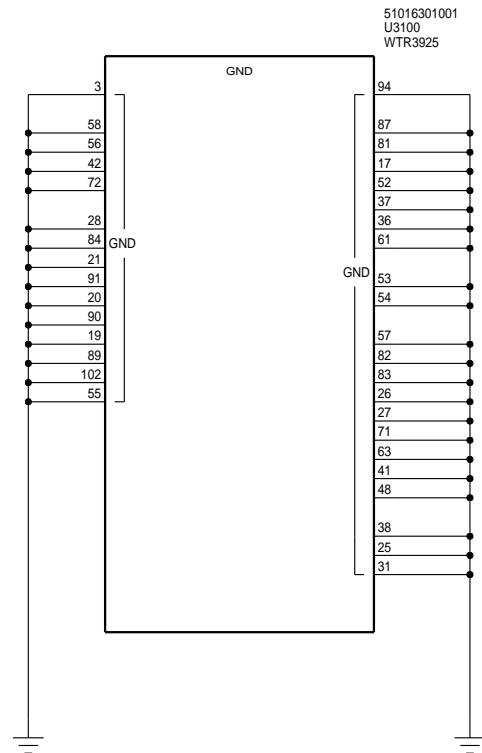
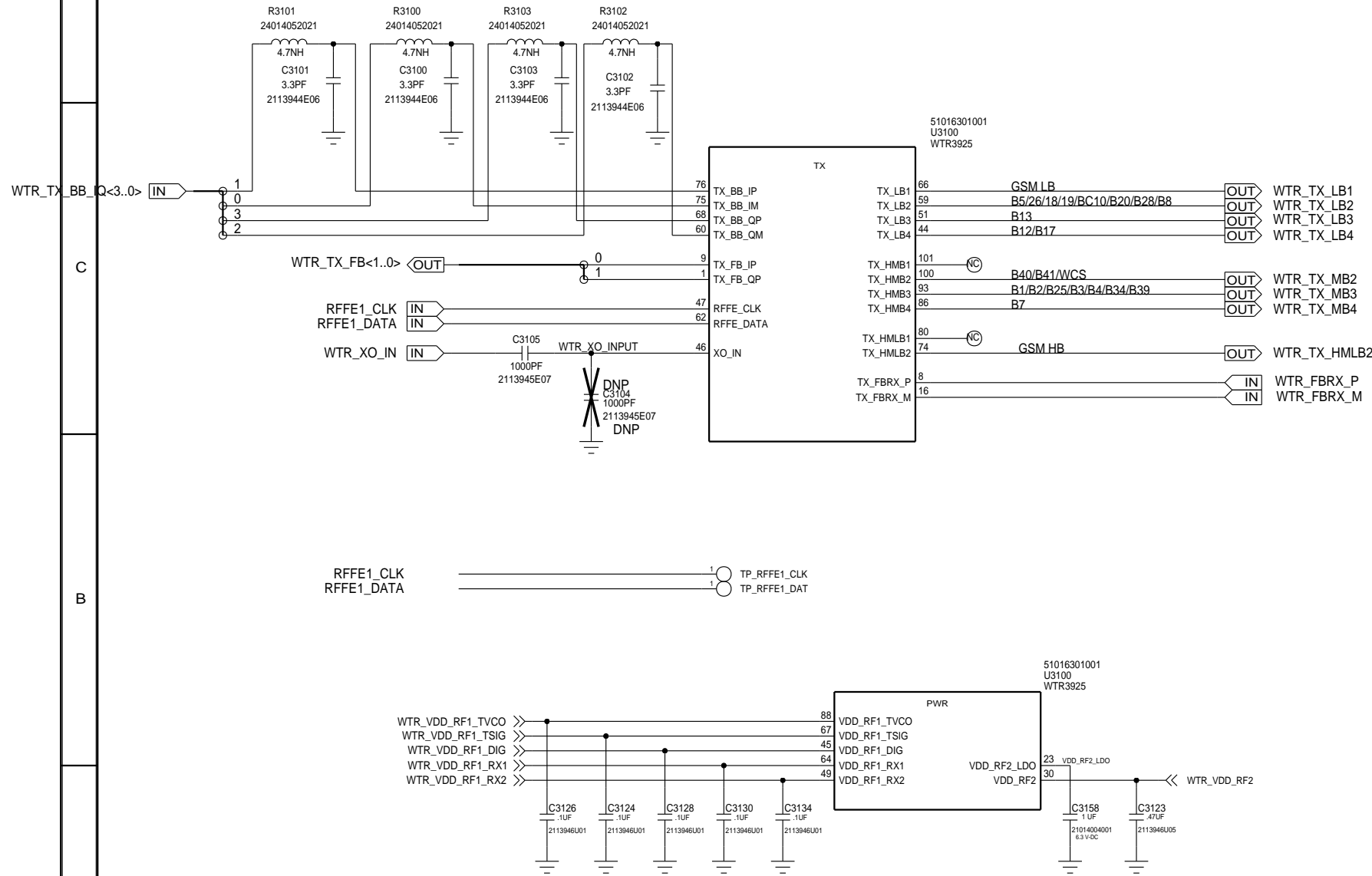
SUPPLIES



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Jun 10 14:31:48 2015		block_wtr3925	
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		CAD FILE NAME:	
		PAGE 60 OF 78	

WTR3925: TX/PWR/GROUND

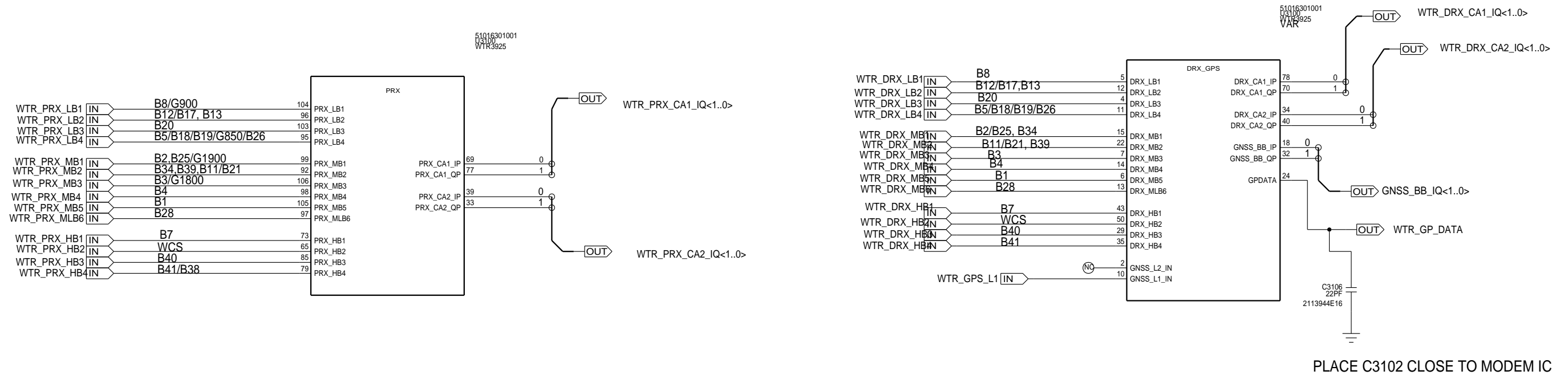
REF 3100-3109



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		block_wtr3925	
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		CAD FILE NAME:	
		PAGE 61 OF 78	

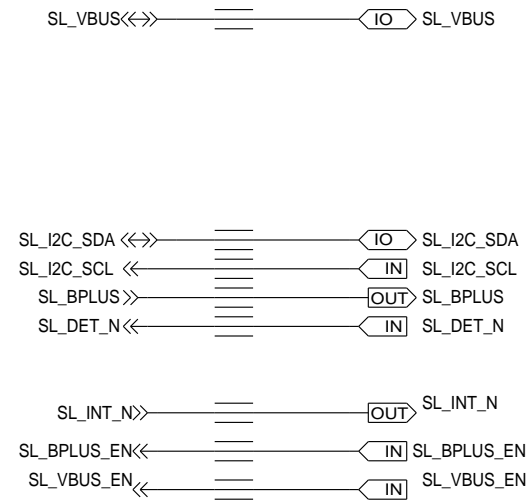
WTR3925: PRX/DRX/GPS

REF 3110-3119




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ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Jun 10 14:31:49 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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		CAD FILE NAME:	PAGE 63 OF 78

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1

RFFE: BLOCK DIAGRAM

REFDES: 7000-8999

D

D

C


C

B

B

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APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Sep 30 10:58:34 2014		rffe_3ca_dsda_combo	
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_b.cpm	REV 01
		CAD FILE NAME:	
		PAGE 64 OF 78	

8

7

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3

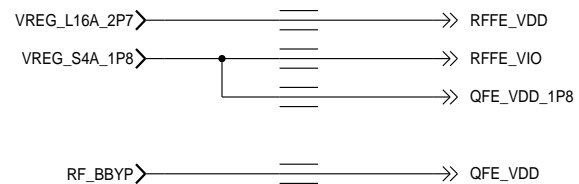
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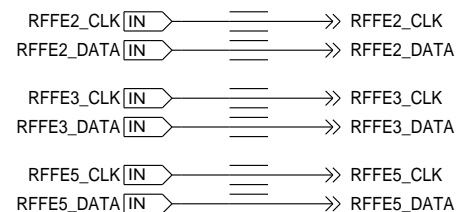
RFFE: PORTS

REFDES: 7000-8999

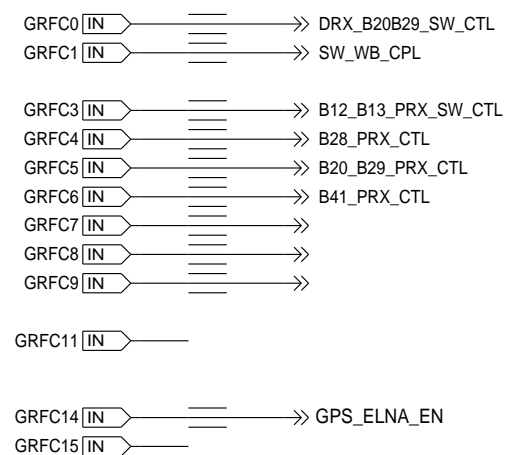
POWER



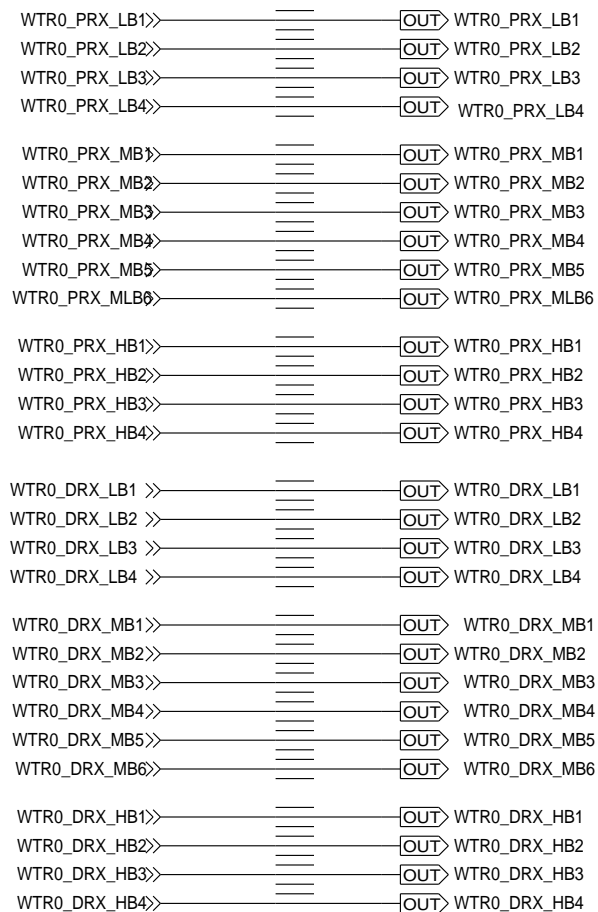
INTERFACES - RFFE MIPI



INTERFACES - RFFE GPIO/GRFC



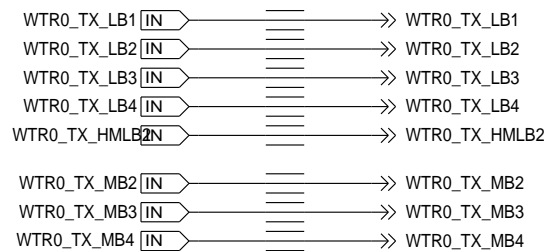
OUTPUTS - RF RECEIVER - WTR0



OUTPUTS - RF RECEIVER - 3DL

OUTPUTS - RF RECEIVER - DSDA

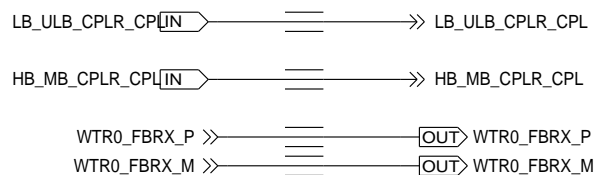
INPUTS - RF DRIVER - WTR0



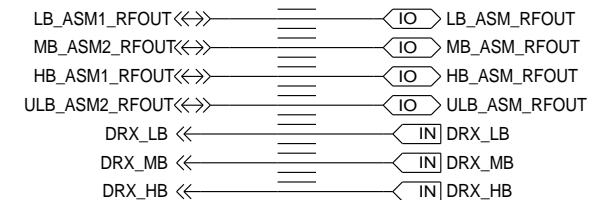
INPUTS - RF DRIVER - 3DL

INPUTS - RF DRIVER - DSDA

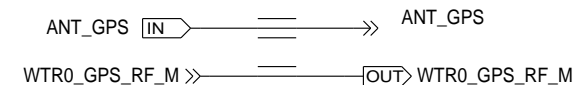
INPUTS /OUTPUTS - DETECTORS



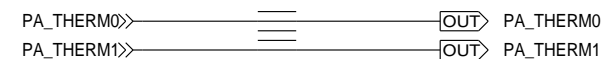
OUTPUTS - RF ANTENNA CONNECTORS



GPS



THERMISTORS



APPROVALS

ENGINEER: MMI
 LAST MODIFIED BY: MMI
 Wed Jun 10 14:31:26 2015

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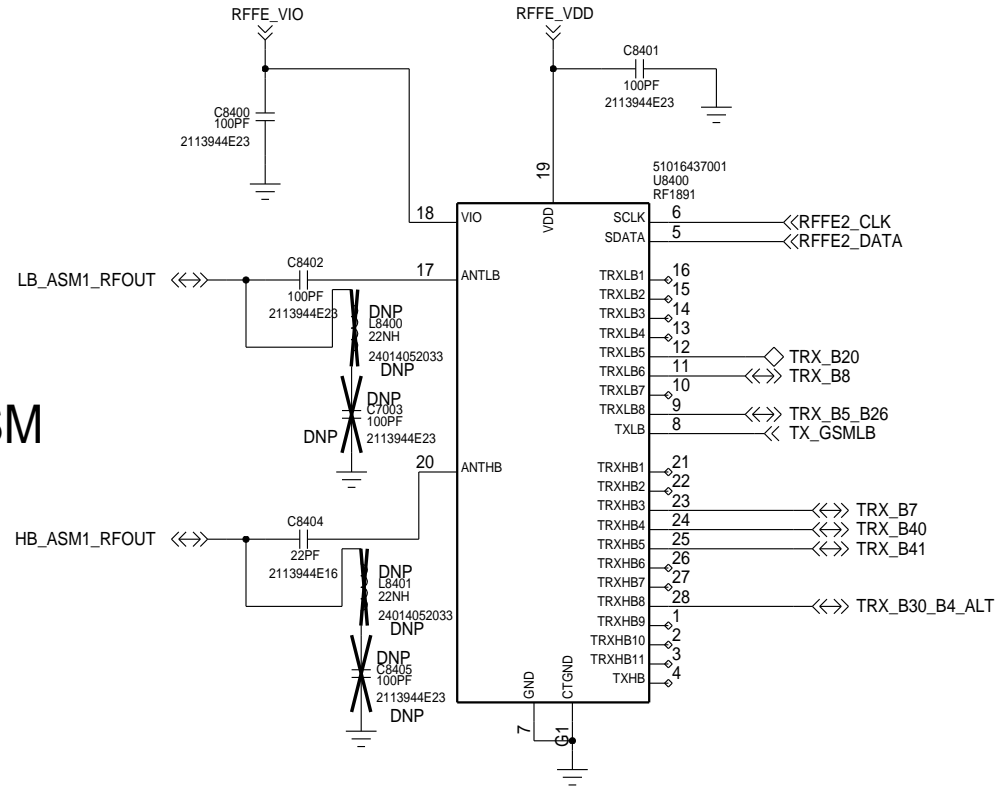
PROJECT NAME: 84016440001_b.cpm REV: 01

CAD FILE NAME: PAGE 65 OF 78

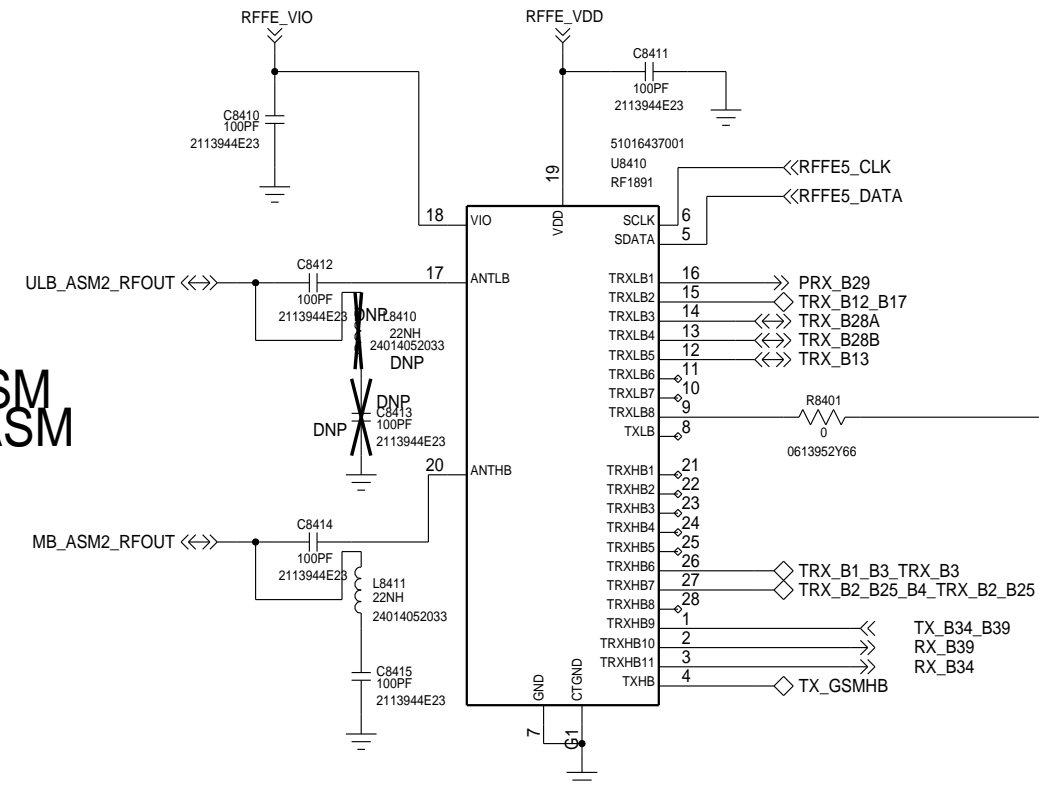
RFFE: ASM

REF 8400-8499

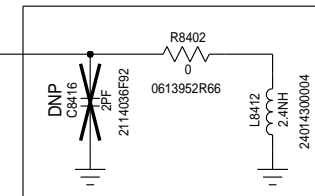
ASM1
 CA: LB+HB ASM
 DSDA: DATA ASM



ASM2
 CA: ULB+MB ASM
 DSDA: VOICE ASM



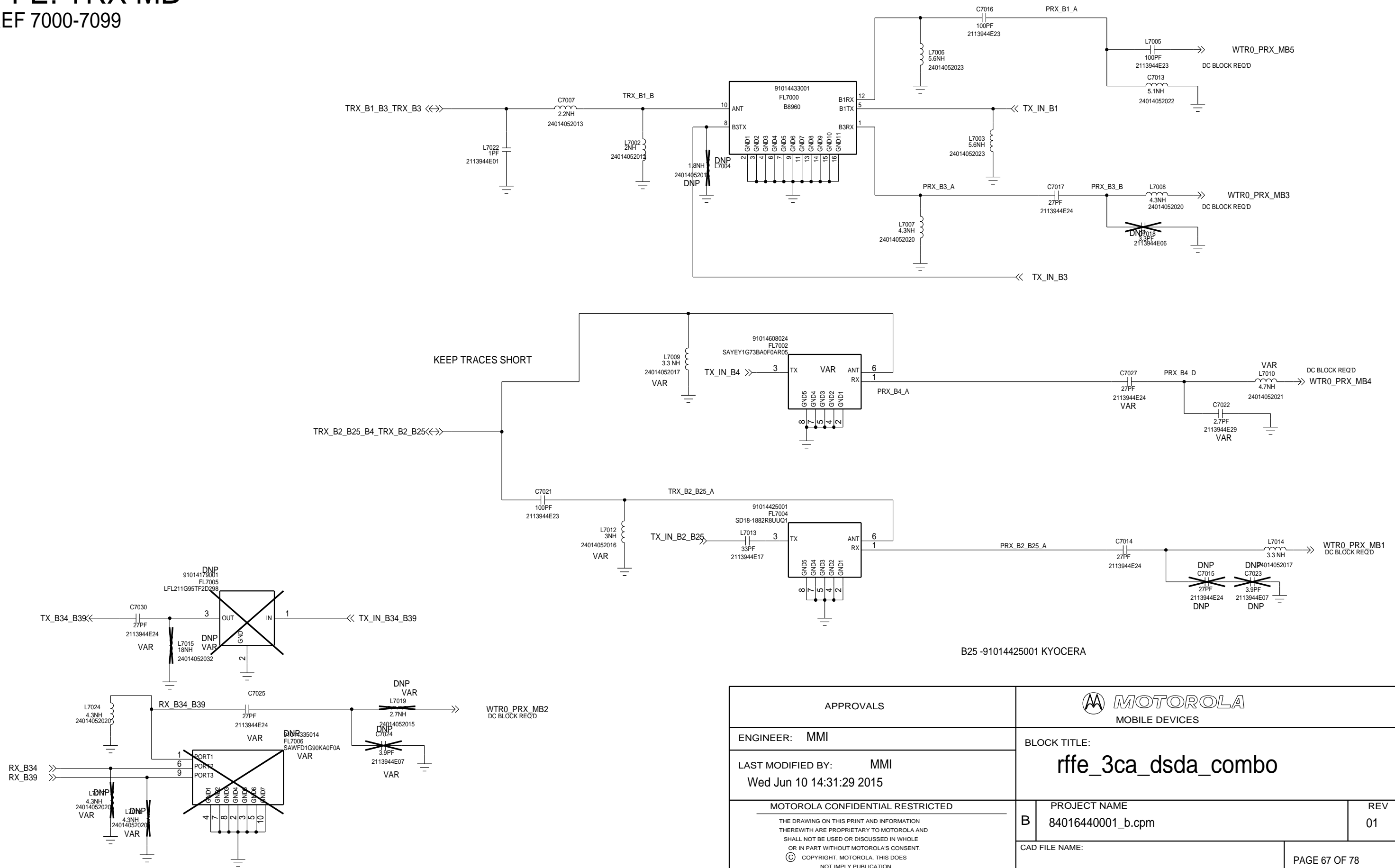
PLACE PI OUTSIDE OF SHIELD CAN



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Wed Jun 10 14:31:28 2015		rffe_3ca_dsda_combo	
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		B 84016440001_b.cpm	01
		CAD FILE NAME:	
		PAGE 66 OF 78	

RFFE: TRX MB

REF 7000-7099



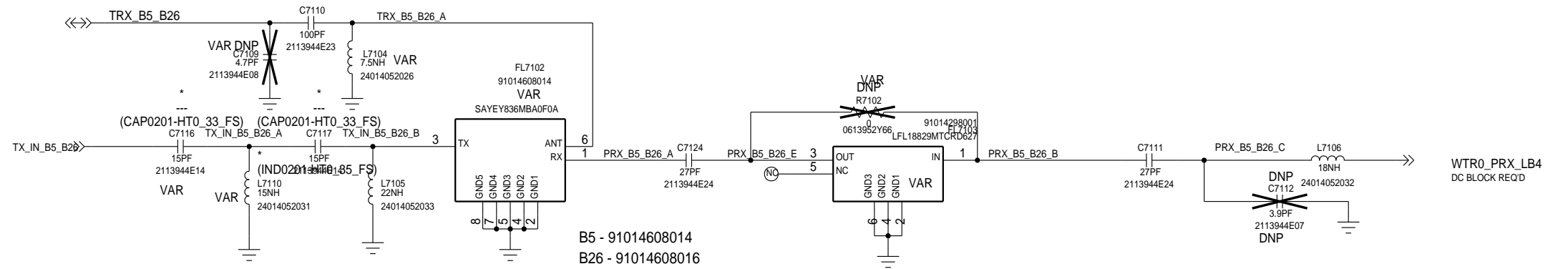
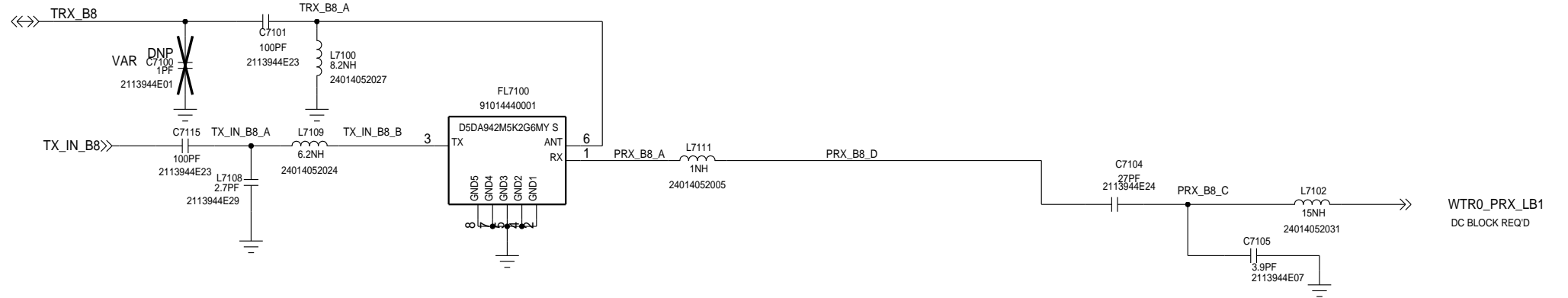
KEEP TRACES SHORT

B25-91014425001 KYOCERA

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MMI		rffe_3ca_dsda_combo	
Wed Jun 10 14:31:29 2015		PROJECT NAME	REV
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		CAD FILE NAME:	
		PAGE 67 OF 78	

RFFE: TRX LB

REF 7100-7199



B5 - 91014608014
B26 - 91014608016

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE: rffe_3ca_dsda_combo	
LAST MODIFIED BY: Wed Jun 10 14:31:30 2015		PROJECT NAME 8074640001_b.cpm	
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		PAGE 68 OF 78	

RFFE: TRX ULB

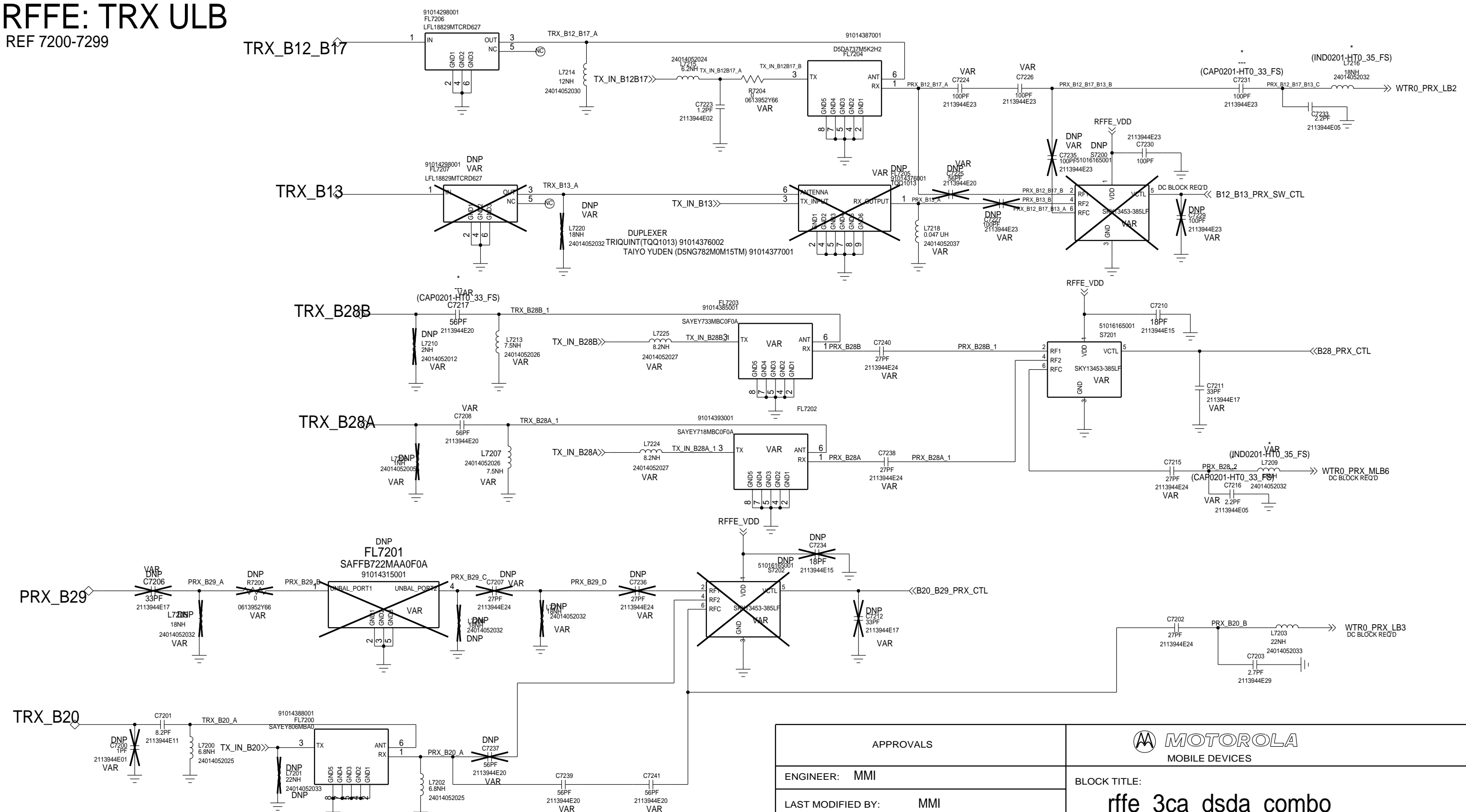
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D

C

B

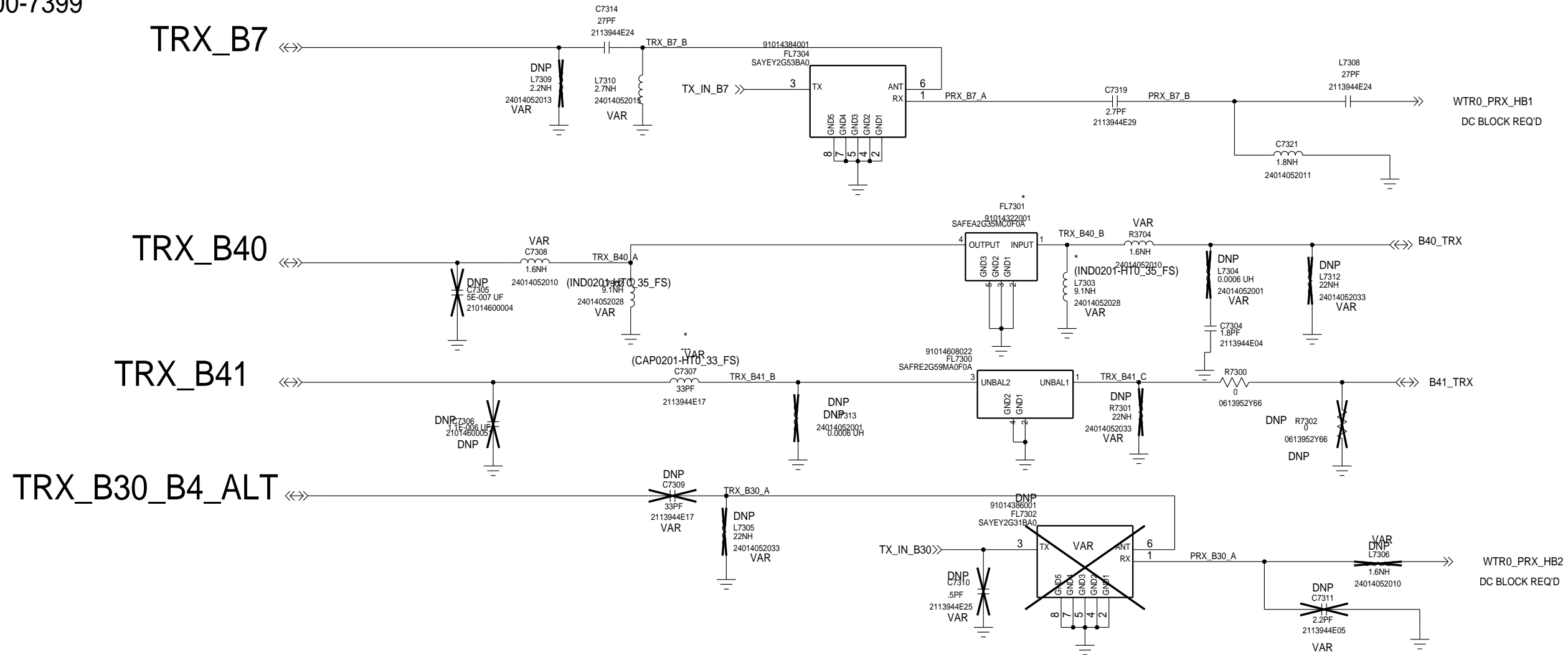
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APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MMI		rffe_3ca_dsda_combo	
Wed Jun 10 14:31:31 2015		PROJECT NAME	REV
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		CAD FILE NAME:	

RFFE: TRX HB

REF 7300-7399

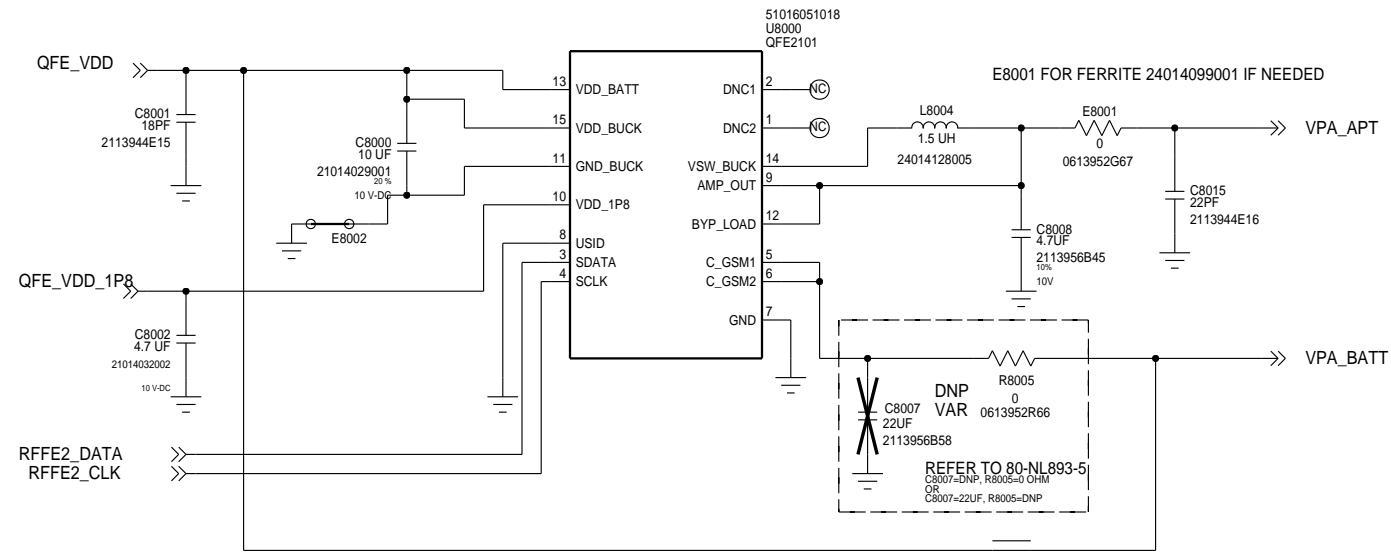


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
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		B 84016440001_b.cpm	01
CAD FILE NAME:		PAGE 70 OF 78	

RFFE: APT

REF 8000-8099

MAIN APT



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		bfeck3affedsda_combo	
Wed Jun 10 14:31:34 2015		PROJECT NAME	
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		CAD FILE NAME:	
		PAGE 71 OF 78	

RFFE: TX MMB PA

REF 7400-7499

WTR0_TX_MB3

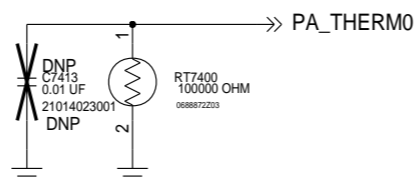
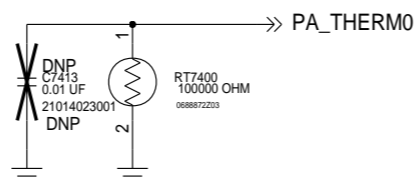
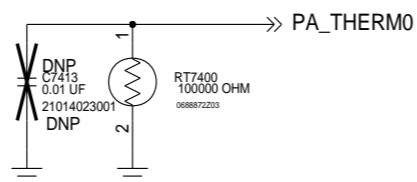
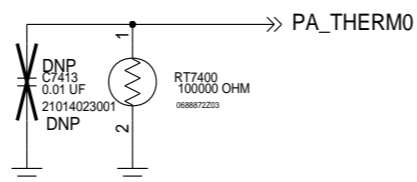
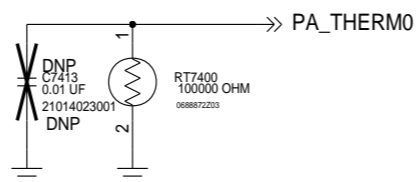
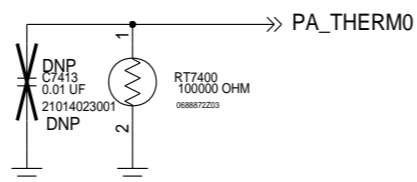
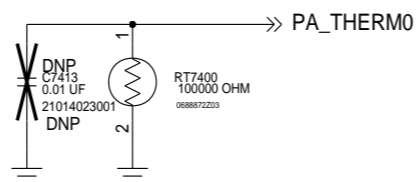
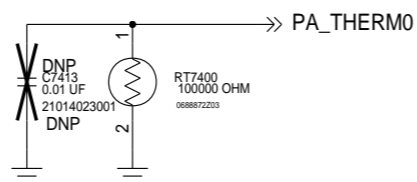
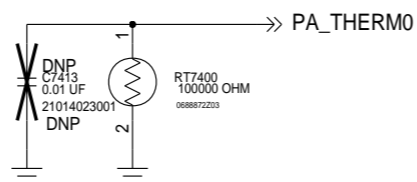
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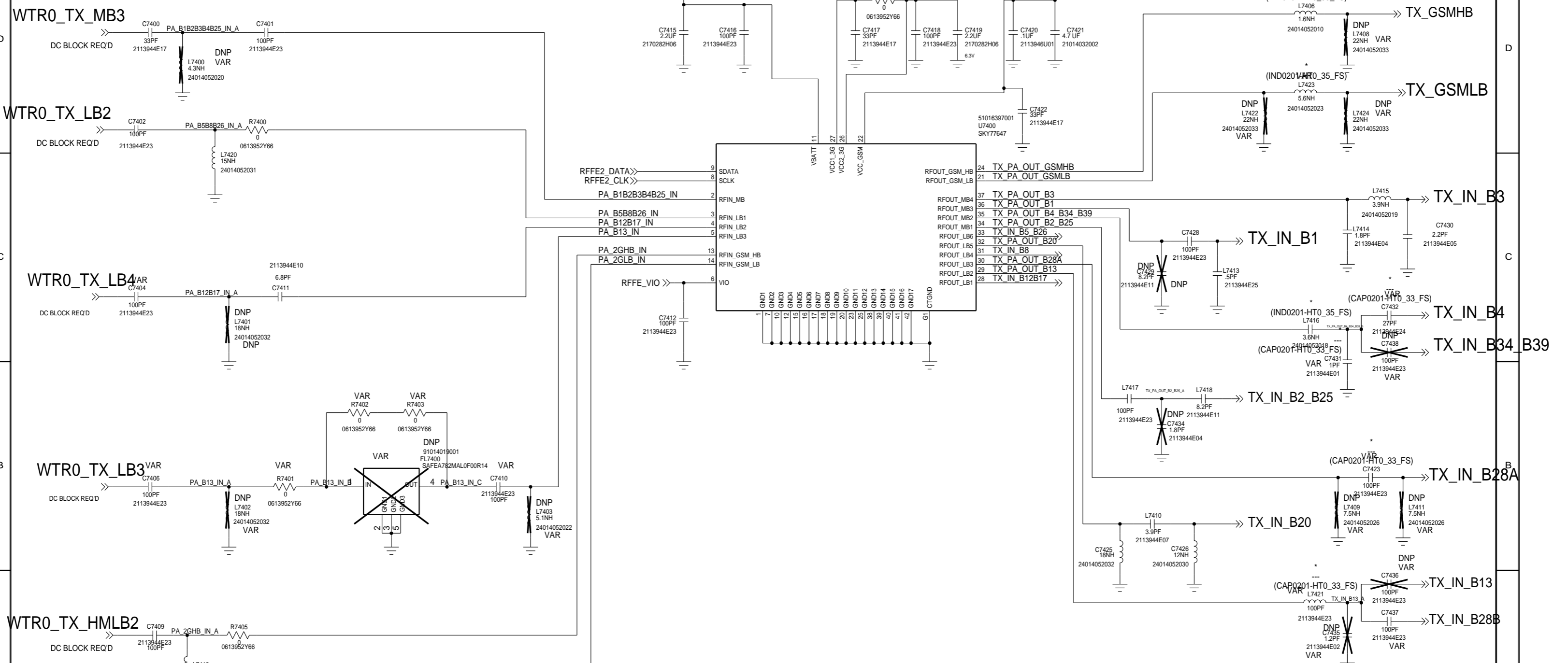
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WTR0_TX_HMLB2

WTR0_TX_LB1

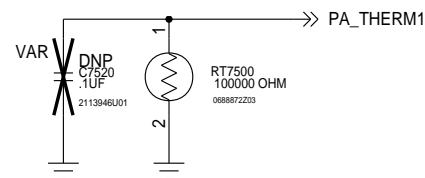
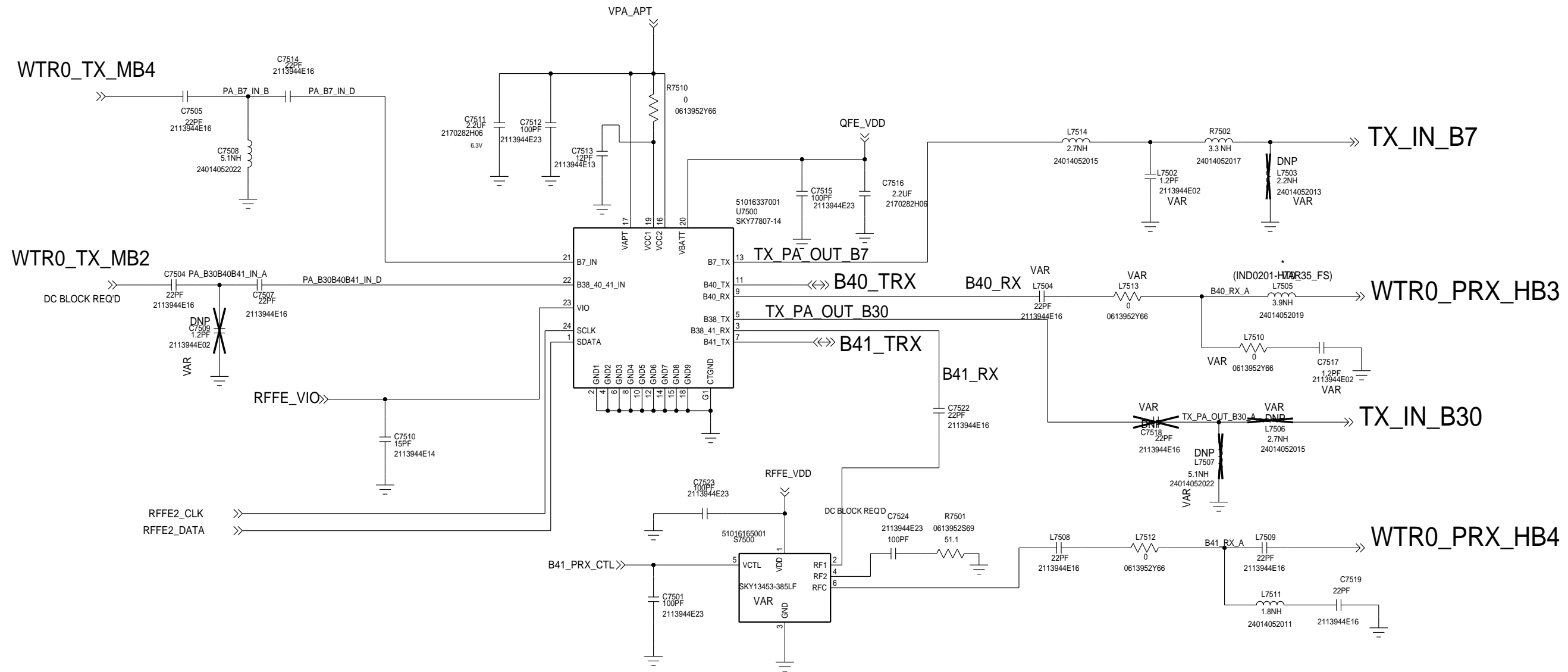


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI		<h2>rffe_3ca_dsda_combo</h2>	
Wed Jun 10 14:31:36 2015		PROJECT NAME	REV
MOTOROLA CONFIDENTIAL RESTRICTED		B 8004641001_b.cpm	01
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RFFE: TX B7/B38/B41

REF 7500-7599

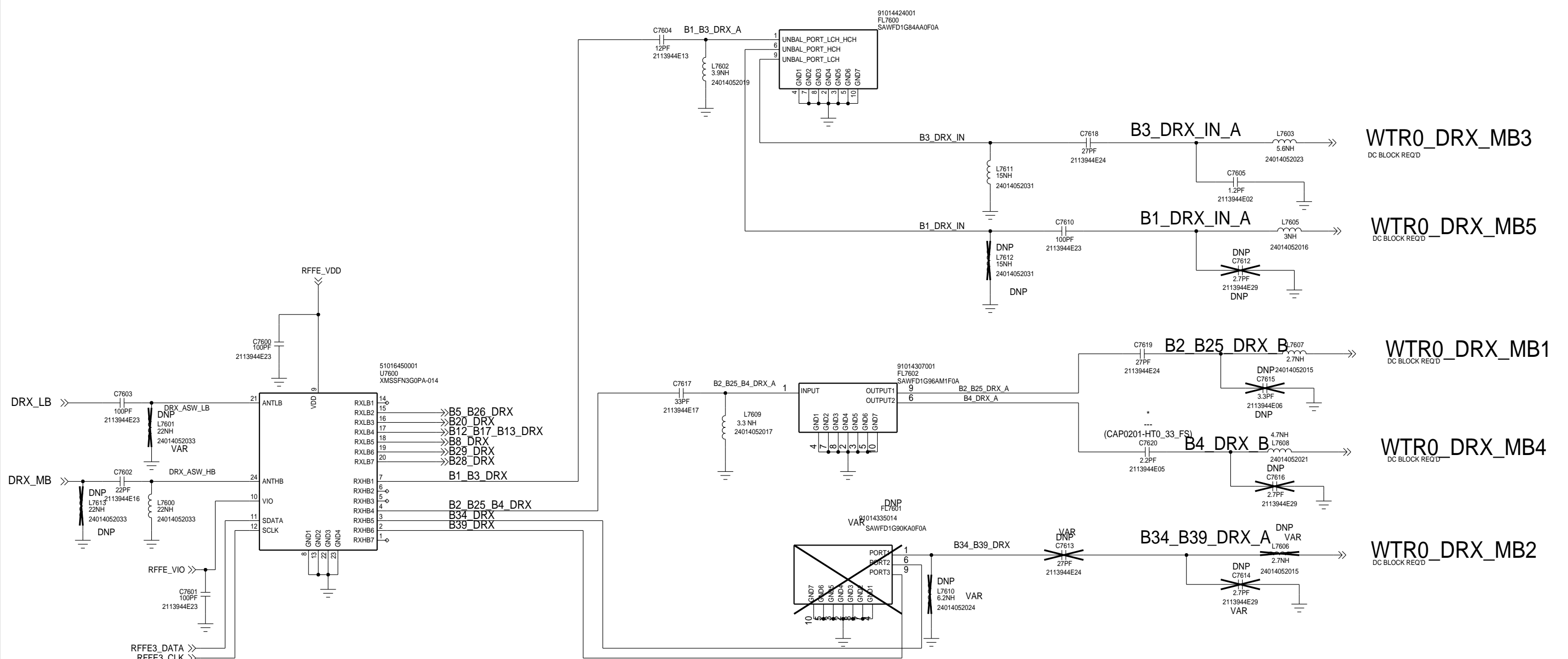


PLACE THESE IN THE SAME SHIELD AS THE LTE 7/41 PA

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY:		rffe_3ca_dsda_combo	
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		B 807464001_b.cpm	01
		CAD FILE NAME:	
		PAGE 73 OF 78	

RFFE: DRX ANTENNA SWITCH

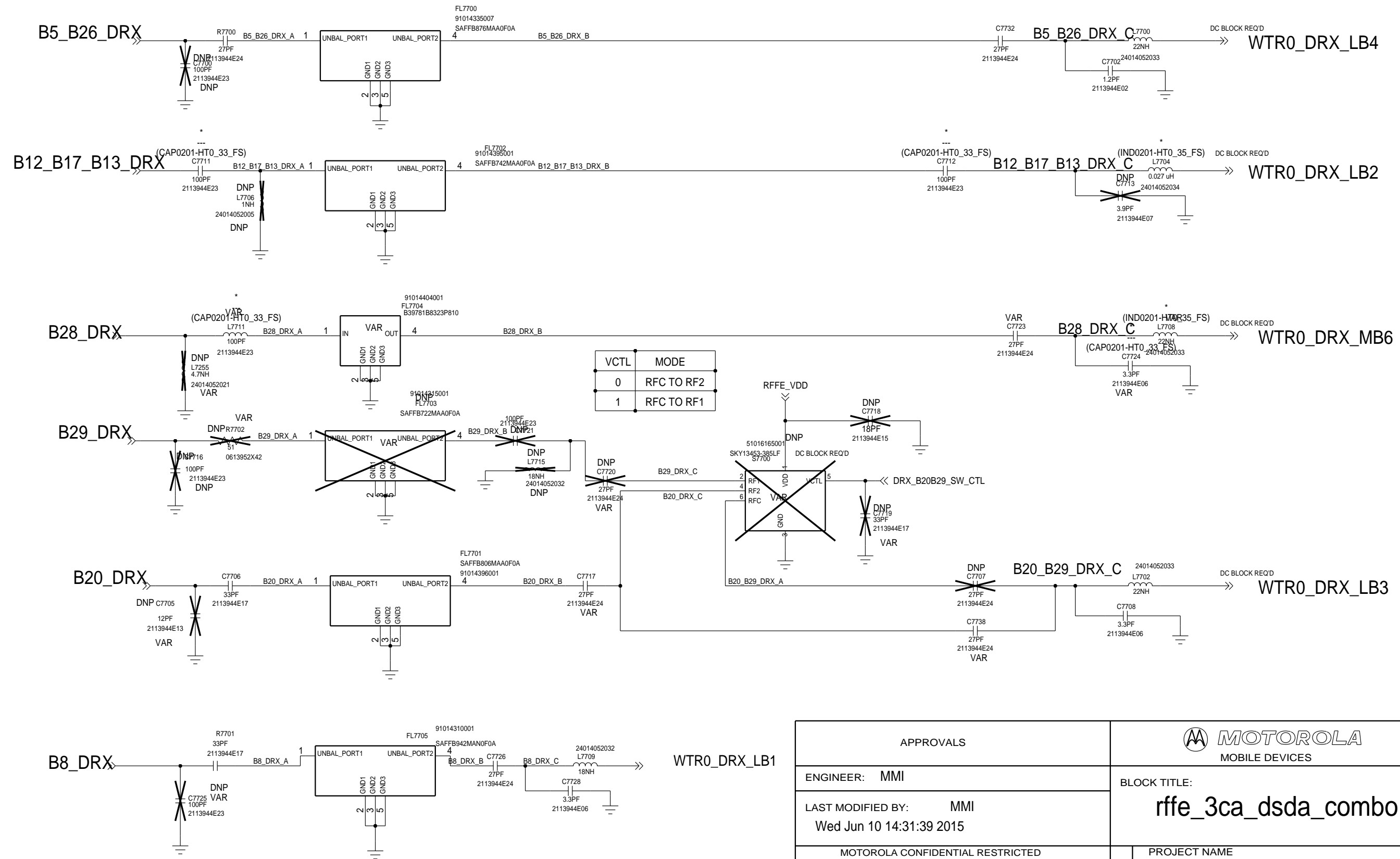
REF 7600-7699



APPROVALS		MOTOROLA MOBILE DEVICES	
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		B 8074640001_b.cpm	01
CAD FILE NAME:		PAGE 74 OF 78	

RFFE: DRX LB

REF : 7700-7799

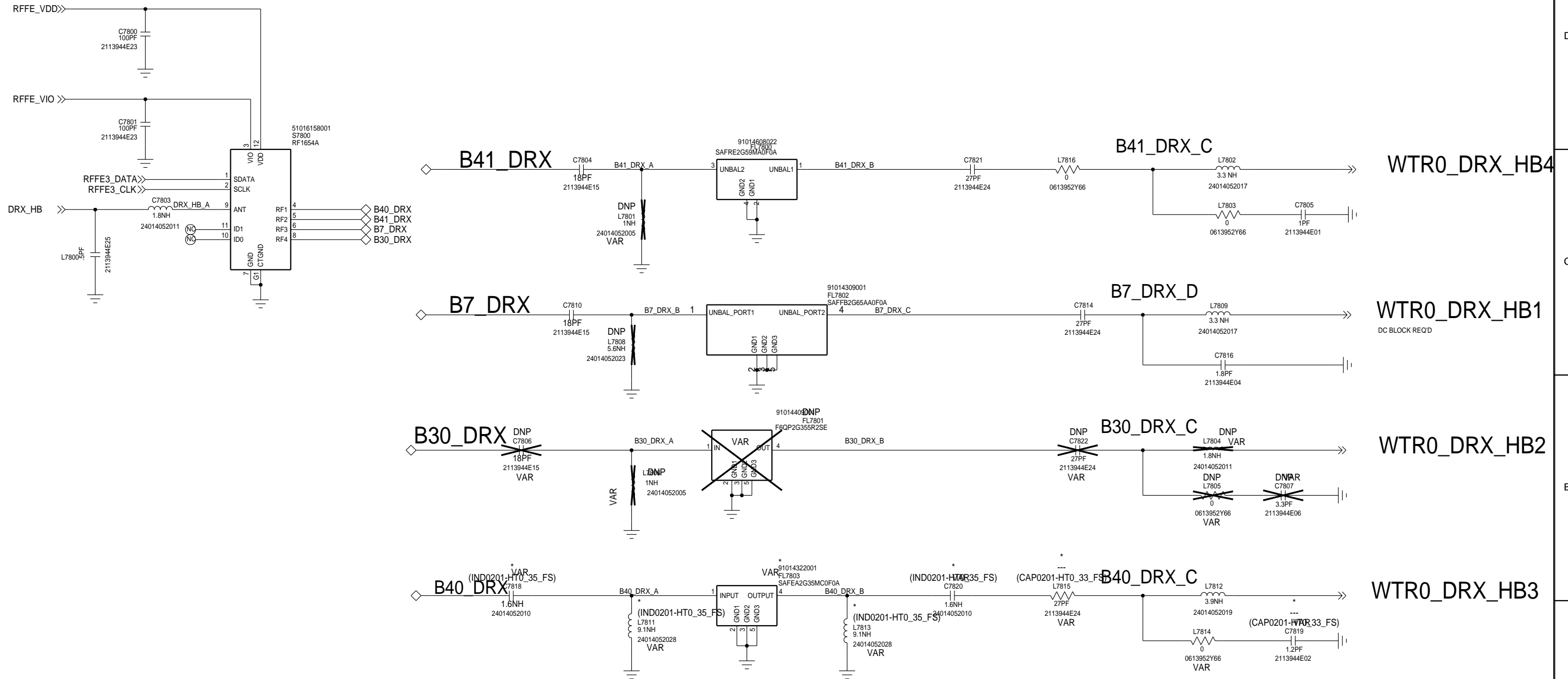


APPROVALS	
ENGINEER: MMI	
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 MOTOROLA MOBILE DEVICES	
BLOCK TITLE:	
<h2>rffe_3ca_dsda_combo</h2>	
PROJECT NAME	REV
B 8074640001_b.cpm	01
CAD FILE NAME:	
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RFFE: DRX HB

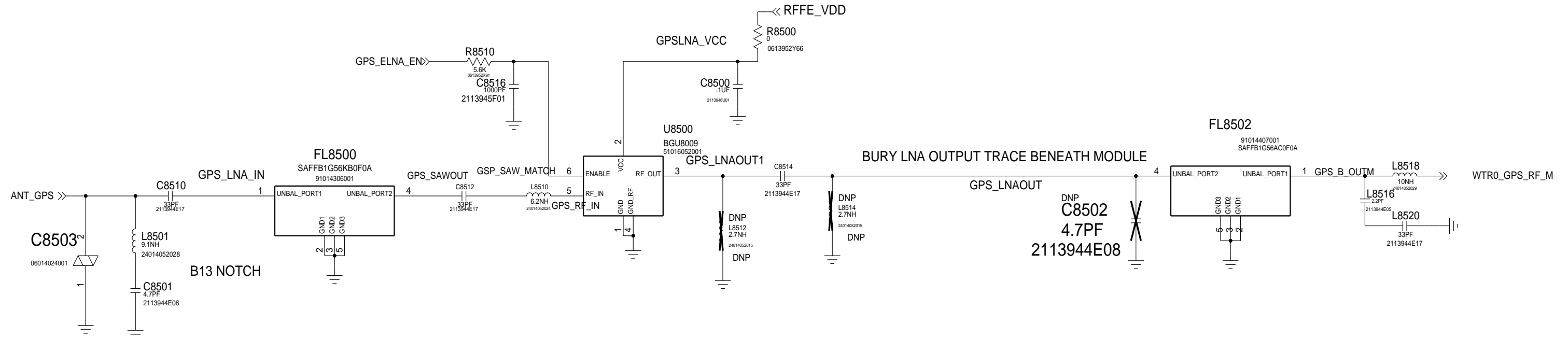
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APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Wed Jun 10 14:31:40 2015		rffe_3ca_dsda_combo	
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		B 8074640001_b.cpm	01
CAD FILE NAME:		PAGE 76 OF 78	

RFFE: GPS

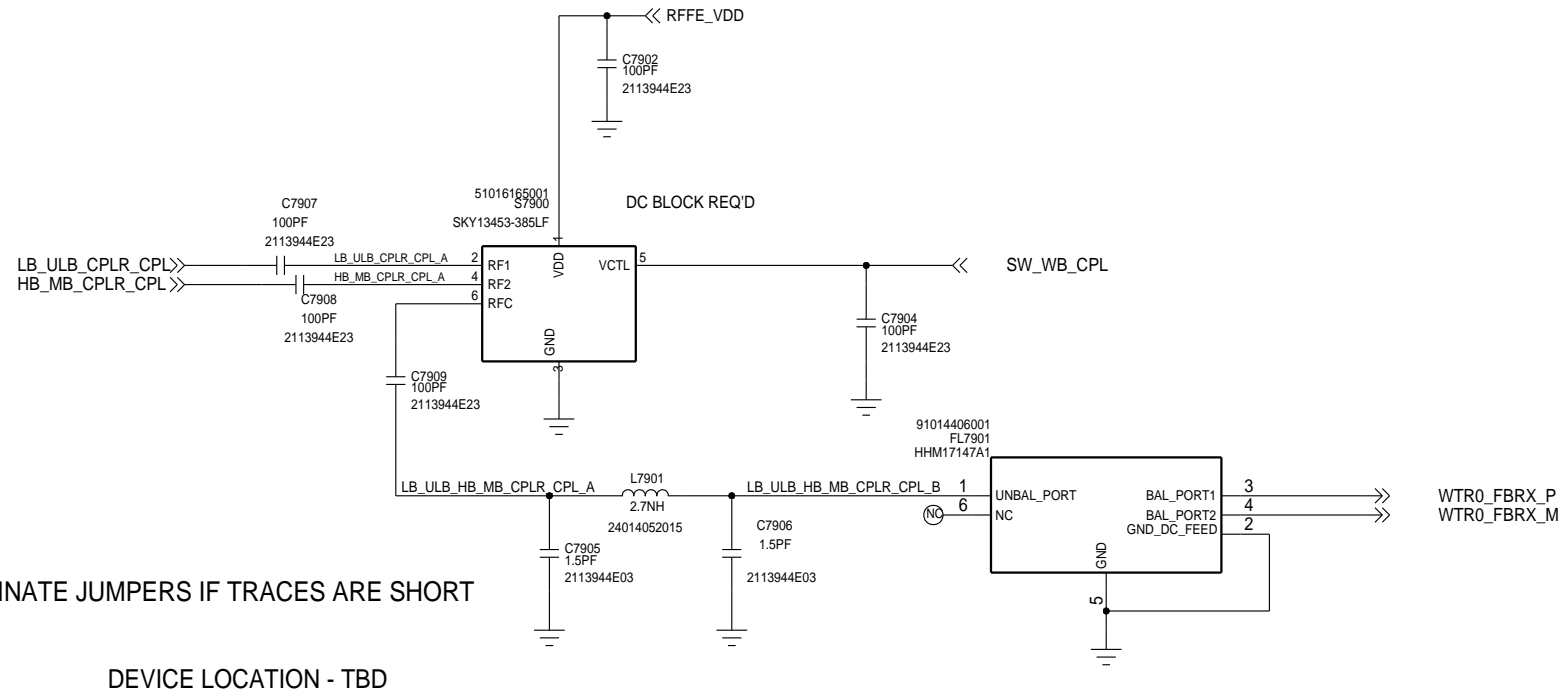
REF : 8500-8549



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Jun 10 14:31:41 2015		rffe_3ca_dsda_combo	
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		CAD FILE NAME:	
		PAGE 77 OF 78	

RFFE: PDET

REF : 7900-7949



COULD ELIMINATE JUMPERS IF TRACES ARE SHORT

DEVICE LOCATION - TBD

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Wed Jun 10 14:31:42 2015		rffe_3ca_dsda_combo	
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		CAD FILE NAME:	
		PAGE 78 OF 78	