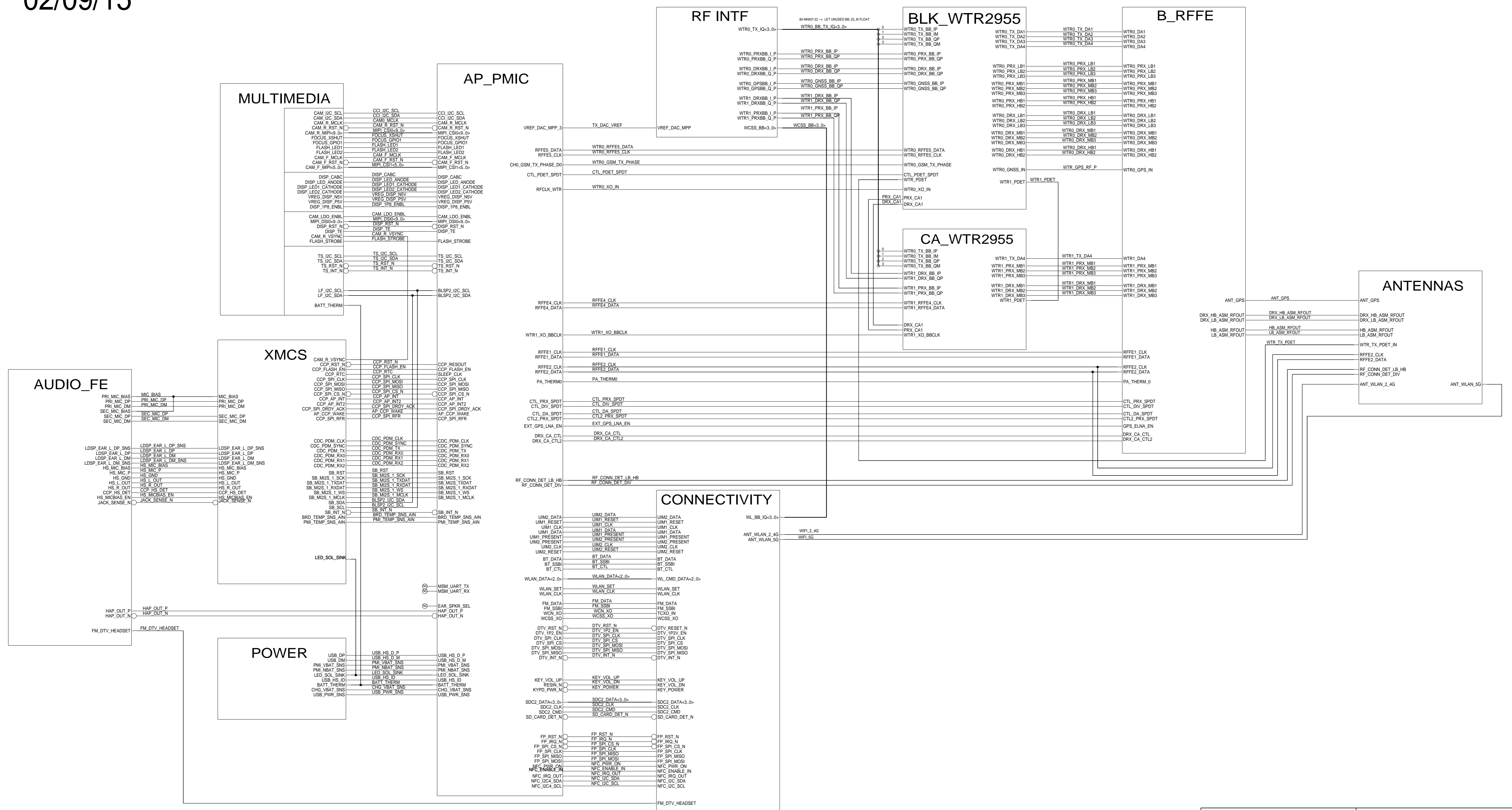


AFFINITY

SYSTEM 4.0
04-S28-2014
02/09/15

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



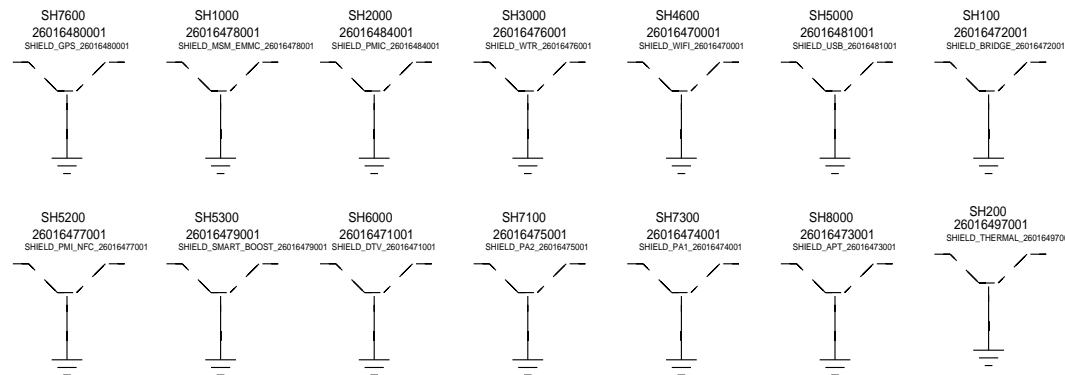
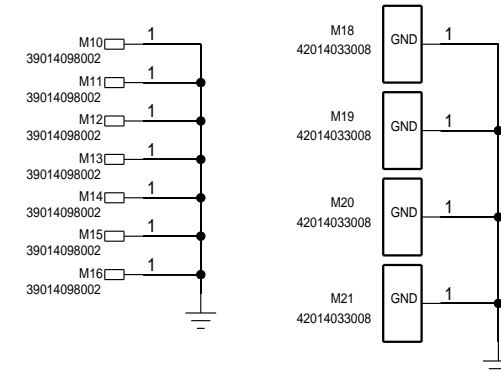
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA MOBILITY		BLOCK TITLE:	84016530001_a
LAST MODIFIED BY: NATE CONNELL		PROJECT NAME:	84016530001_a.cpm
Fri Dec 18 13:27:05 2015		REV	01
MOTOROLA CONFIDENTIAL RESTRICTED		CAD FILE NAME:	
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AFFINITY ME/SHIELDS

AFFINITY REFERENCE DESIGNATOR RANGES BY BLOCK

- 000 - 499: ANTENNA
- 500 - 599: USER INPUT
- 600 - 799: POWER
- 1000-2999: MSM8852 + PM8952
- 3000-3049, 3100-3149: WTR2955
- 3050-3099, 3150-3199: CA_WTR2955
- 3200-3999: MSM8952 + PM8952
- 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)

UNIVERSAL GROUND CONTACTS



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Tue Feb 09 13:46:00 2016		84016530001_a	
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 84016530001_a.cpm	REV 01
		CAD FILE NAME:	
		PAGE 2 OF 52	

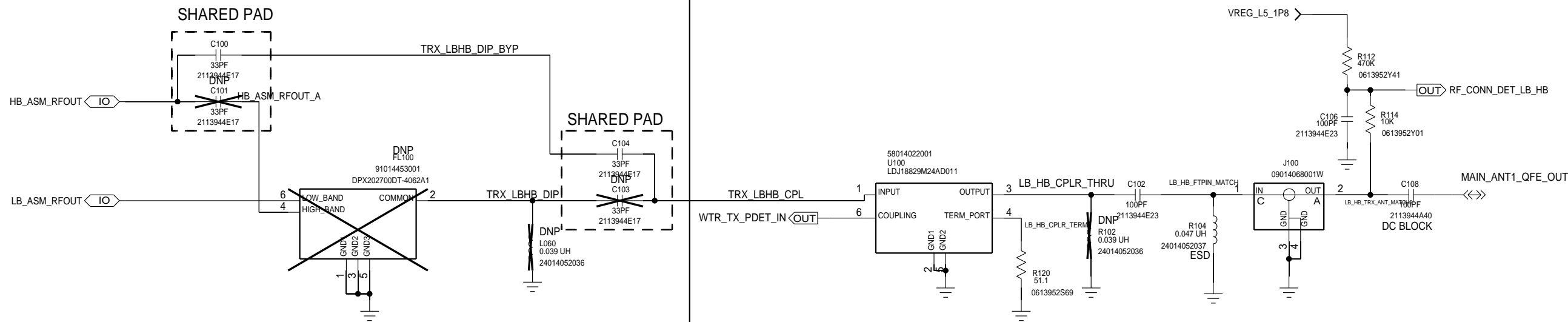
8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

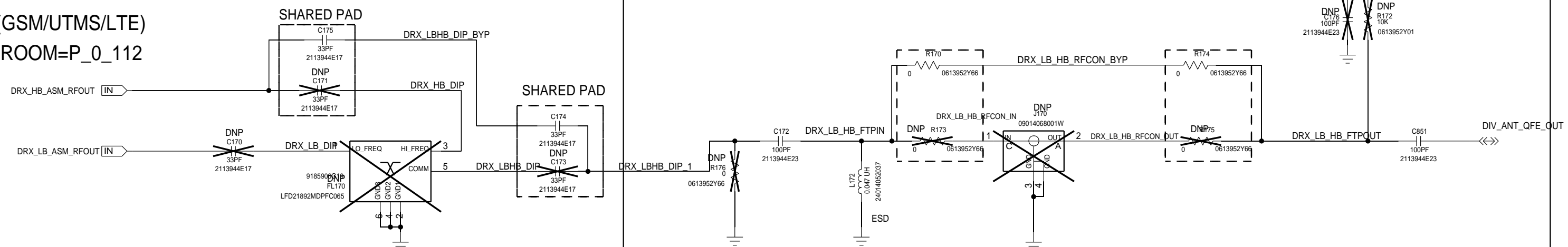
ANT: ANTENNA
REF: 350-399

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE

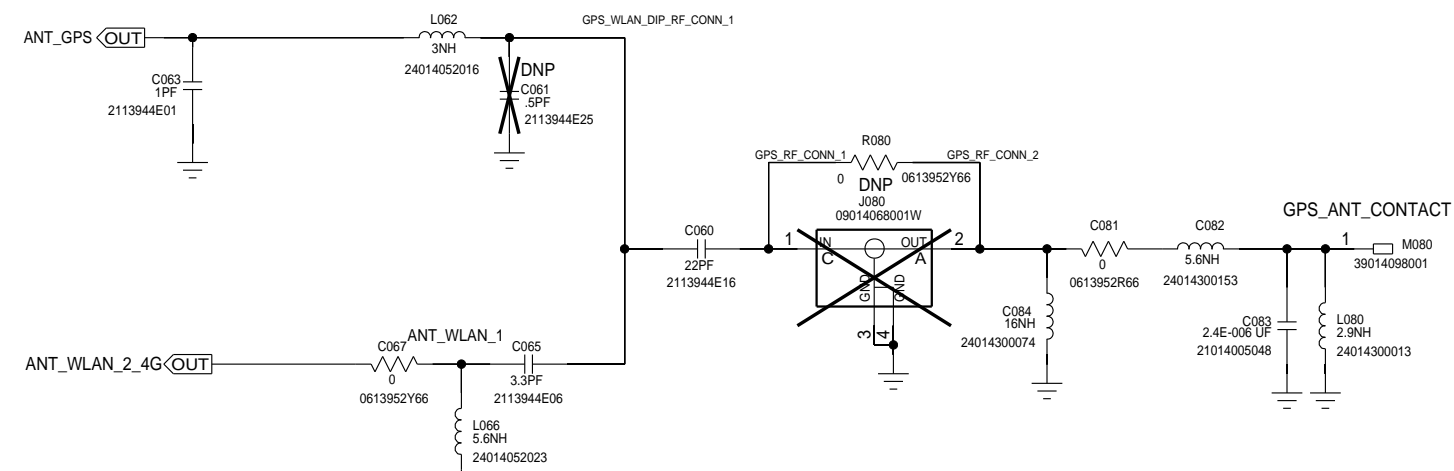
MAIN LOW / HIGH BAND ANTENNA
REF:100-114
DEVICE LOCATION - BOTTOM RIGHT
MAIN LOW / HIGH BAND ANTENNA
(GSM/UTMS/LTE)



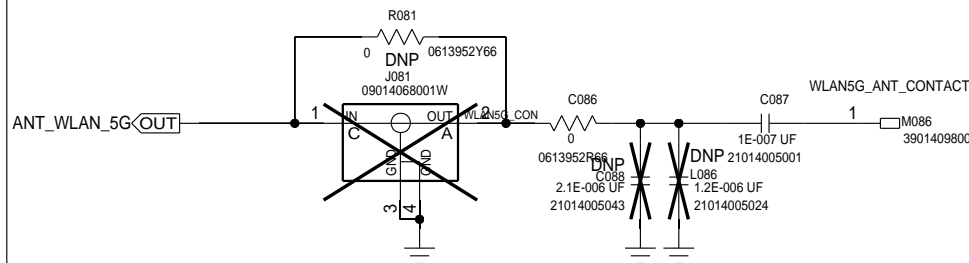
DRX LOW / HIGH BAND ANTENNA
REF:170-179
DEVICE LOCATION - TOP LEFT
(GSM/UTMS/LTE)
ROOM=P_0_112



GPS/BT/WLAN ANTENNA
SIDE ANTENNA (ABOVE VOLUME KEYS)



WLAN 5G ANTENNA
SIDE ANTENNA (ABOVE VOLUME KEYS)

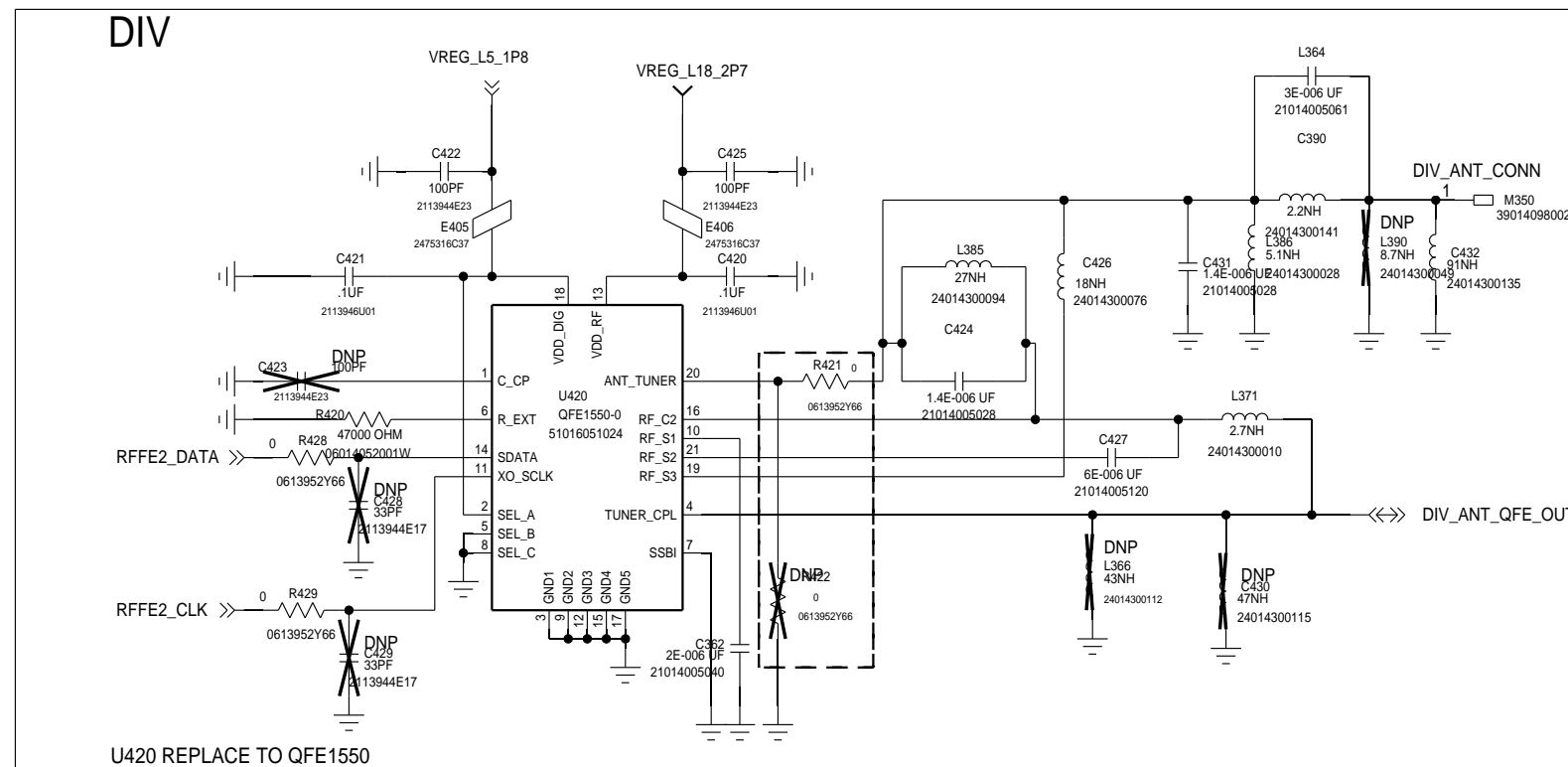
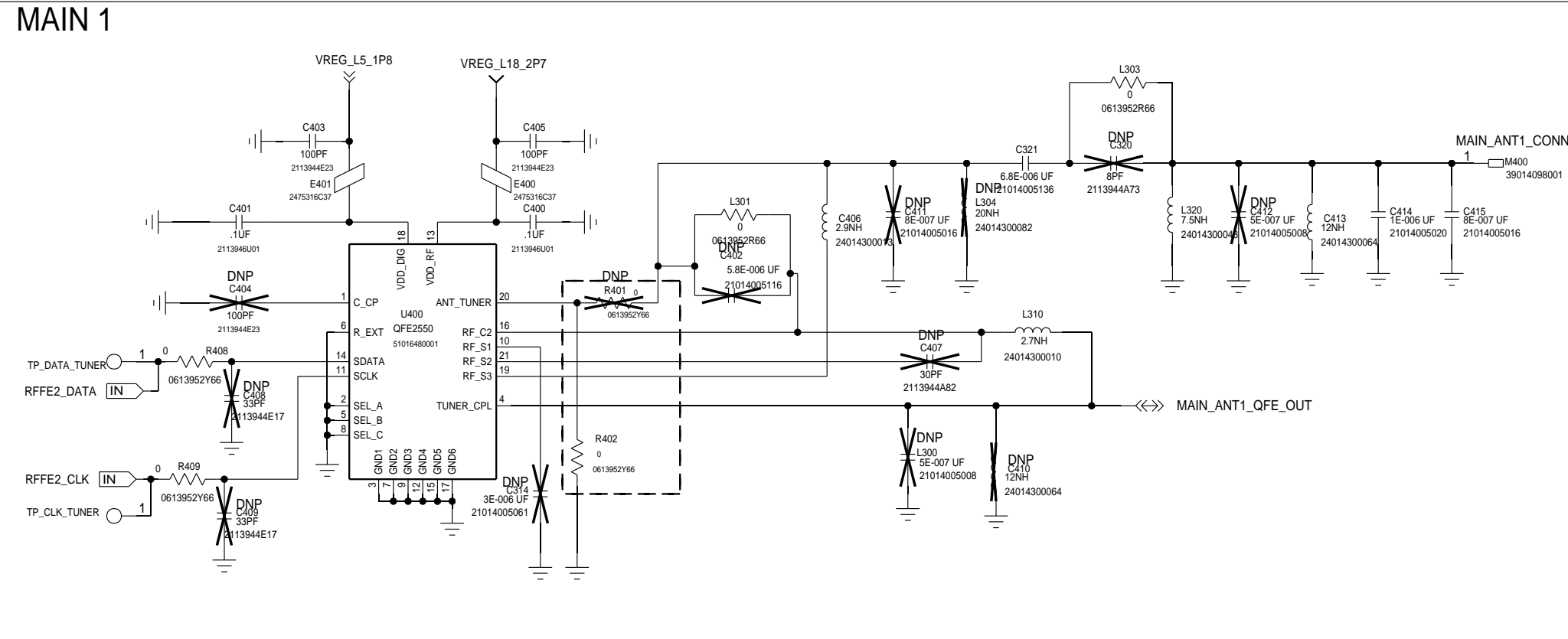


REF: 060-85

APPROVALS			
ENGINEER: MMI		BLOCK TITLE: antennas	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:02 2016		PROJECT NAME 84016530001_a.cpm	
MOTOROLA CONFIDENTIAL RESTRICTED		REV 01	
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ANT: QCOM TUNERS

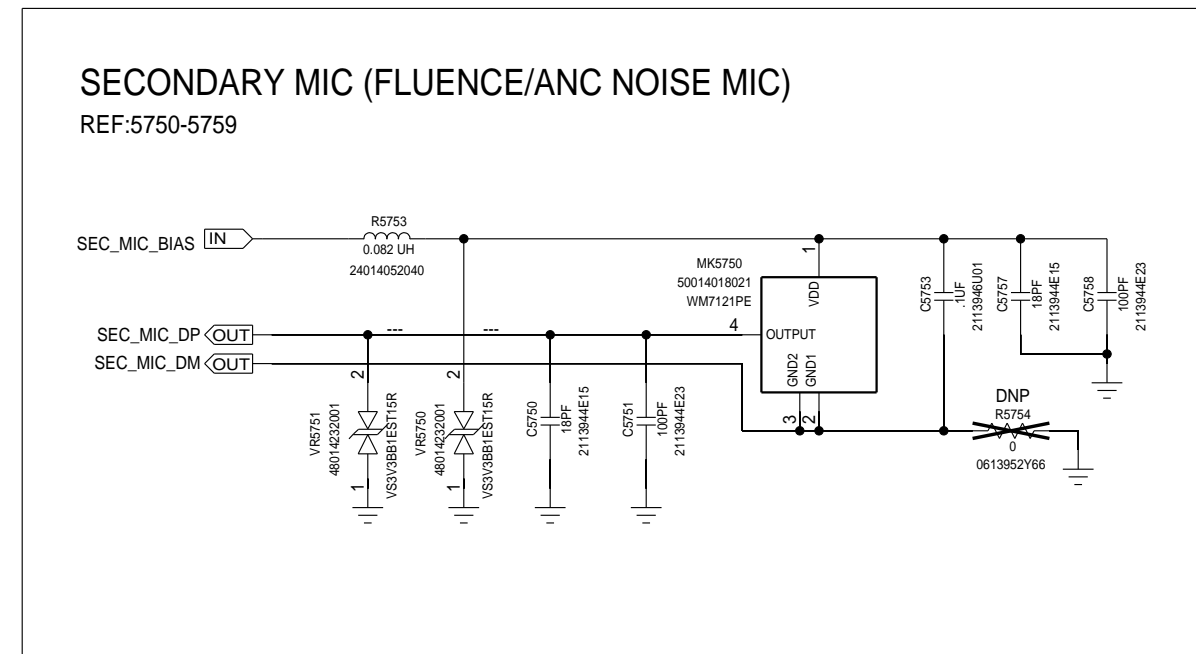
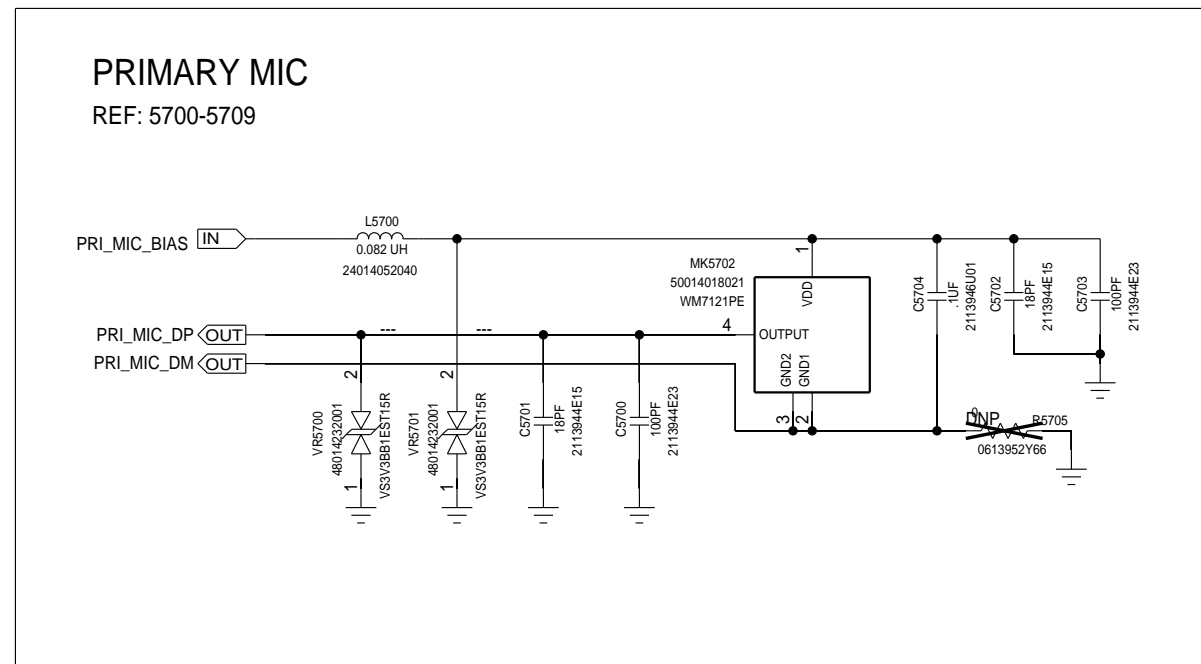
REFDES: 400-499



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: QIUMING LI Tue Feb 09 13:46:03 2016		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	REV
		B 84016530001_a.cpm	01
CAD FILE NAME:		PAGE 4 OF 52	

AFE: MICS

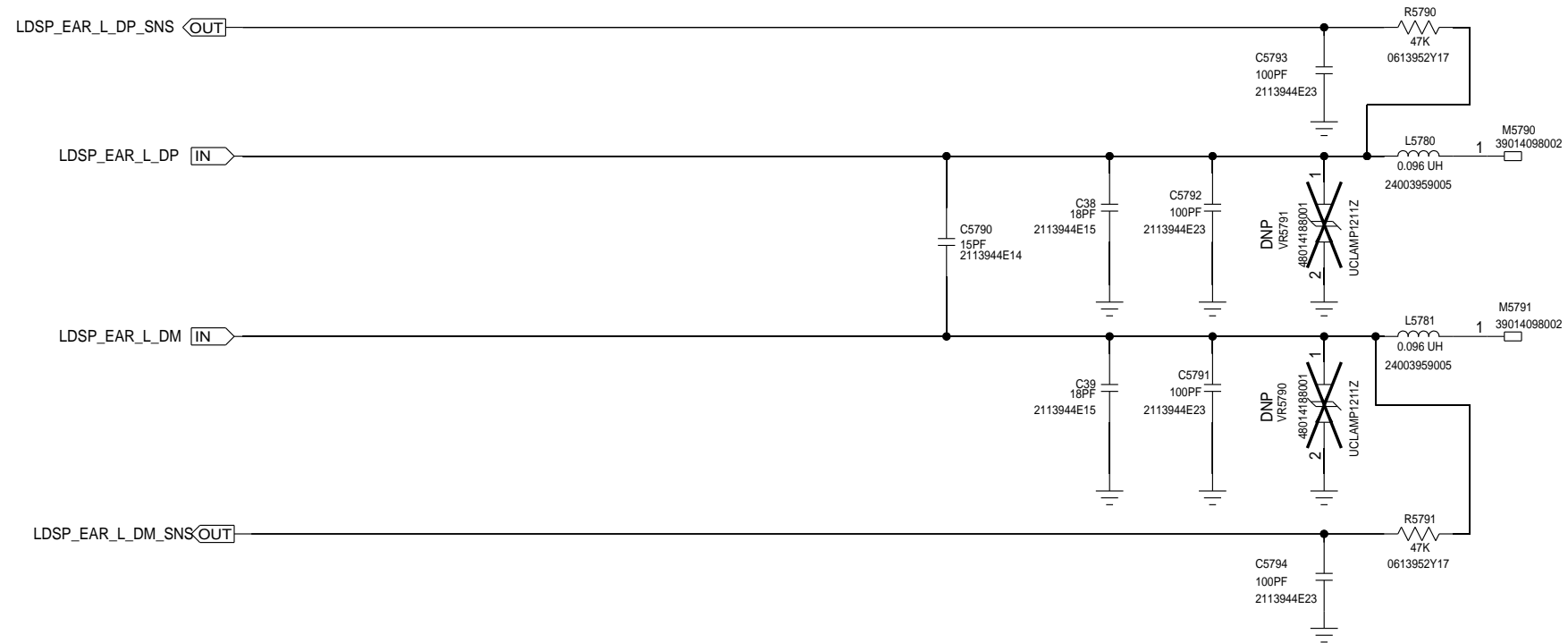
REF: 5700-5799



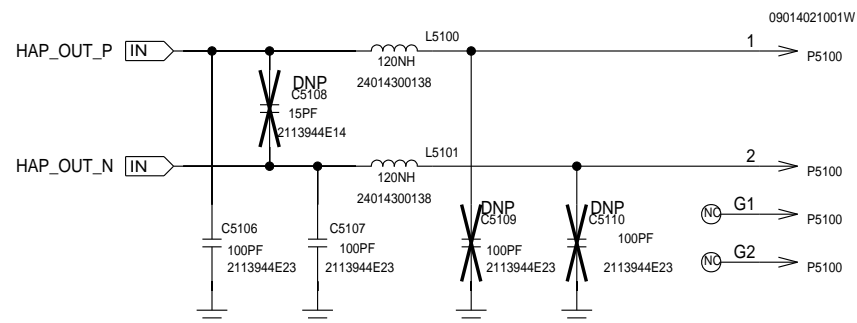
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: DENNIS BUDNICK		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Tue Feb 09 13:46:05 2016		audio_fe	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016530001_a.cpm	REV 01
		CAD FILE NAME:	
		PAGE 5 OF 52	

AFE: SPEAKERS

LOUDSPEAKER/EAR PIECE REF:5790-5799



ROTARY VIBRATOR REF 5100-5119



APPROVALS

ENGINEER: DENNIS BUDNICK

LAST MODIFIED BY: TIM MILLER
Tue Feb 09 13:46:08 2016

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BLOCK TITLE:

audio_fe

PROJECT NAME

B 84016530001_a.cpm

REV

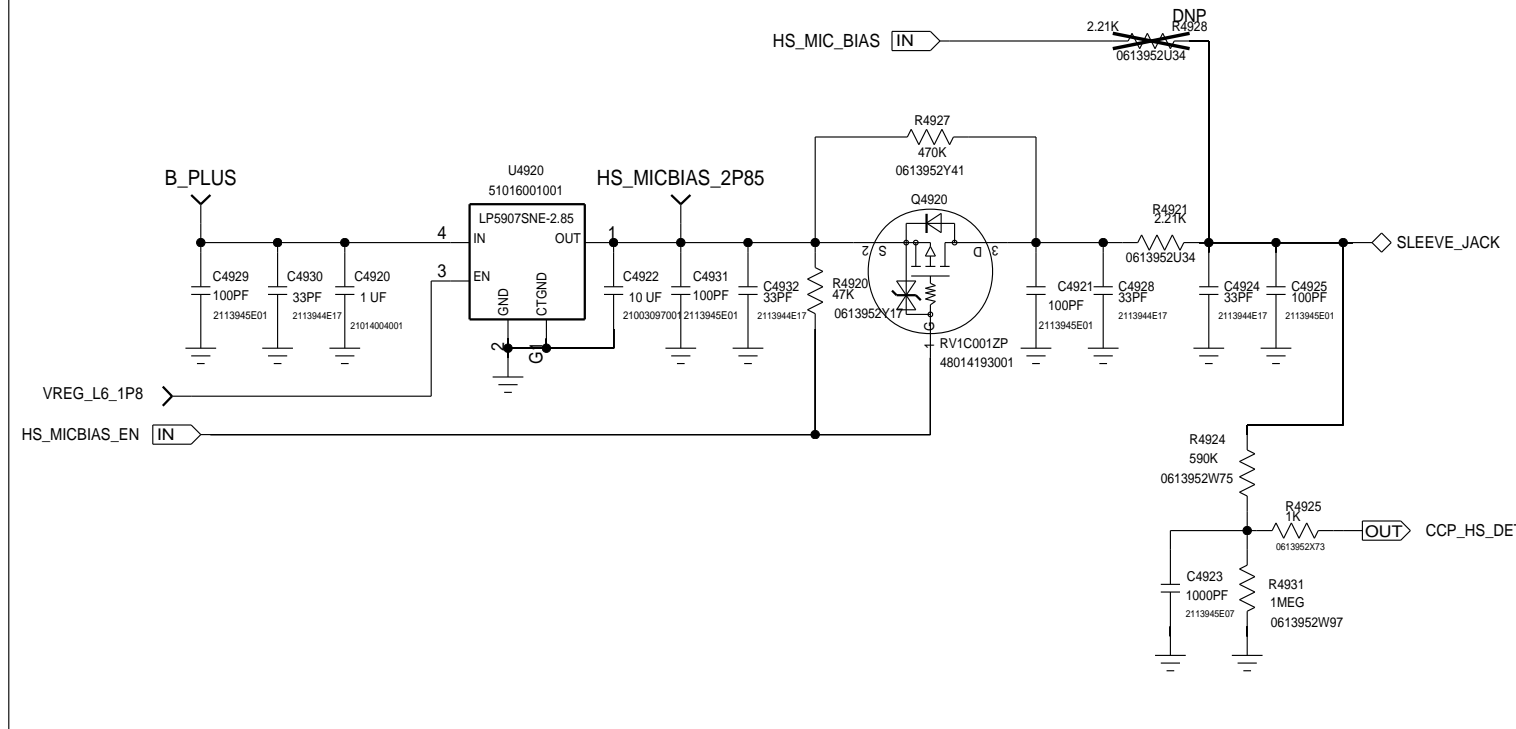
01

CAD FILE NAME:

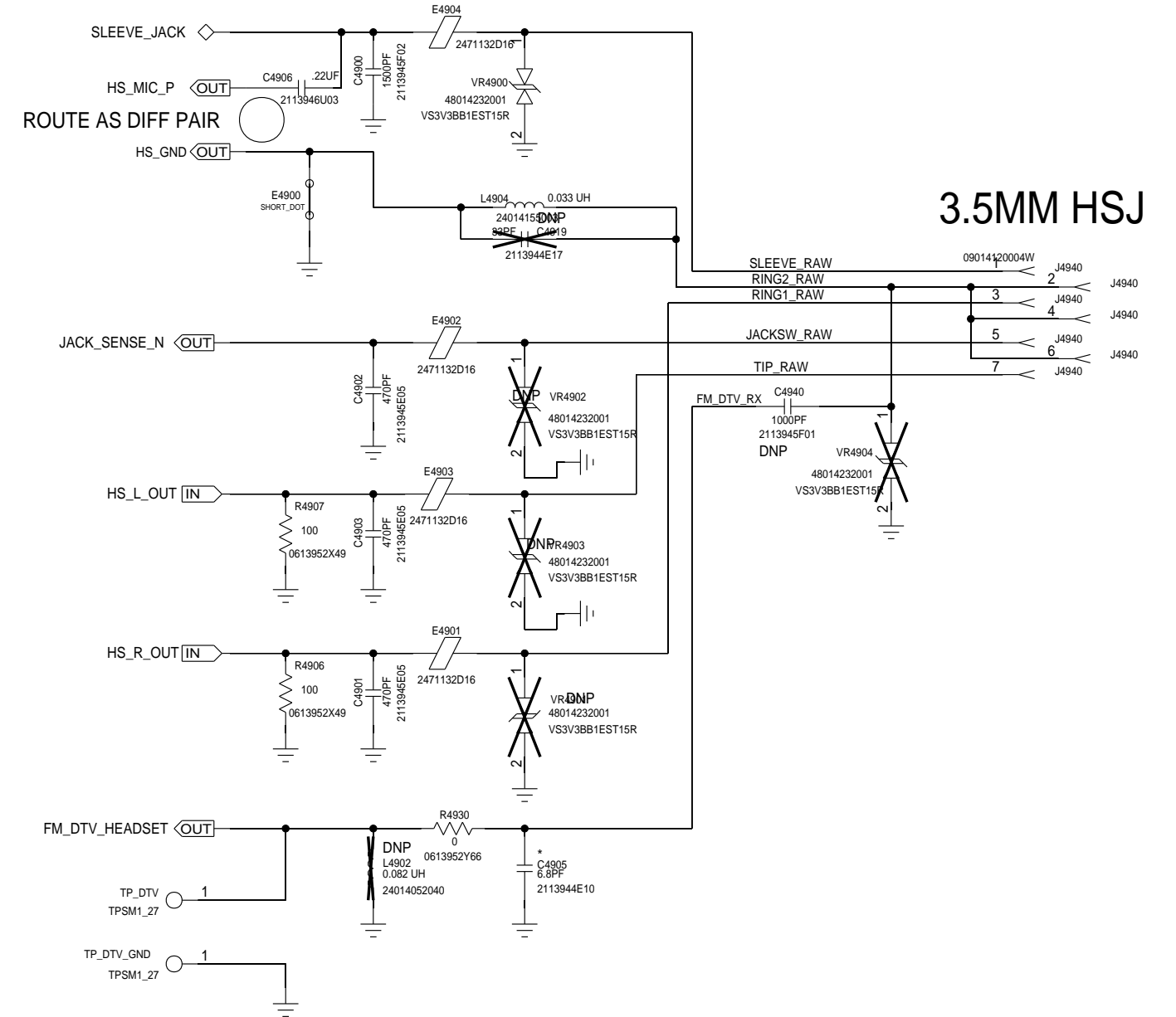
PAGE 6 OF 52

AFE: 3.5MM HEADSET

SENSOR HUB HEADSET DETECTION CIRCUIT



3.5MM HSJ REF:4900-4949



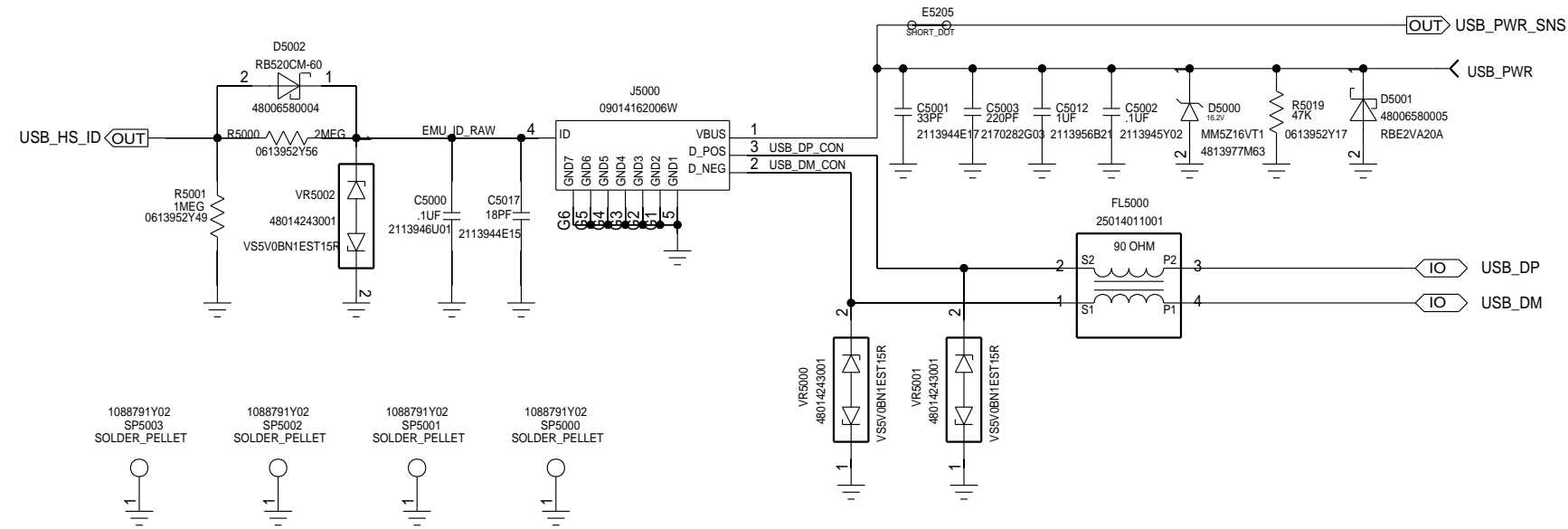
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE: audio_fe	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:06 2016		PROJECT NAME 84016530001_a.cpm	
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		PAGE 7 OF 52	

PWR: USB2 / BATT

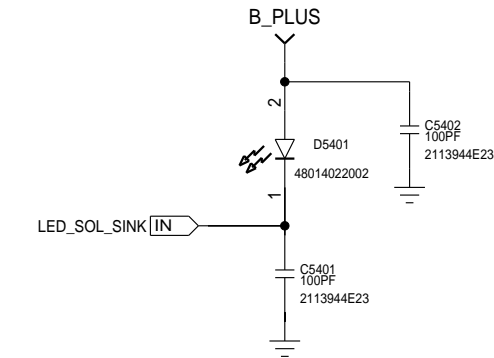
REF:5000 - 5219

MICRO USB

REF:5000 - 5019

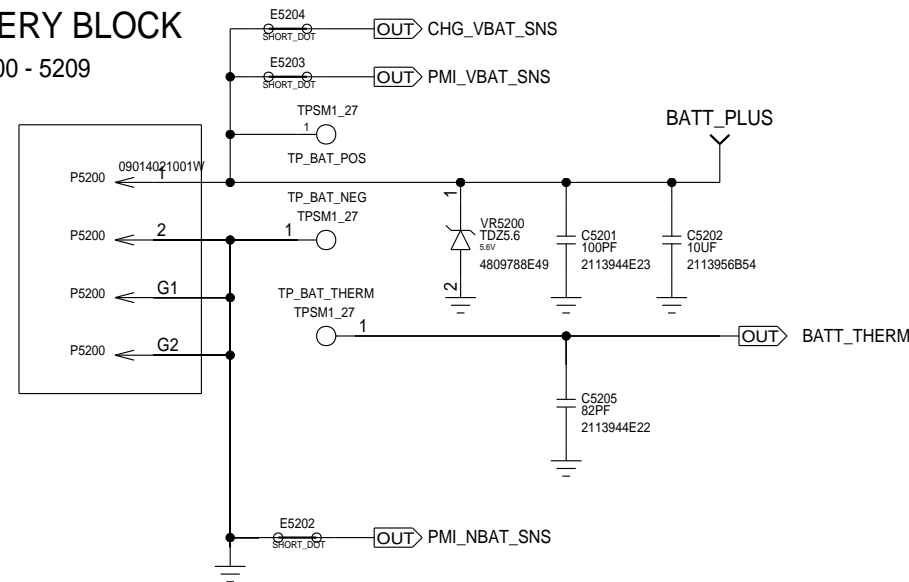


SOL LED



BATTERY BLOCK

REF:5200 - 5209



USING MAXIM FOR TEMP SENSE: DNI R5206, R5204 & R5208 PLACE R5209
USING PMIC FOR TEMP SENSE: PLACE R5206, R5204 & R5208 DNI R5209

APPROVALS

ENGINEER: RICH NG

LAST MODIFIED BY: NATE CONNELL
Tue Feb 09 13:46:09 2016

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BLOCK TITLE:

power

PROJECT NAME
B 84016530001_a.cpm

REV
01

CAD FILE NAME:

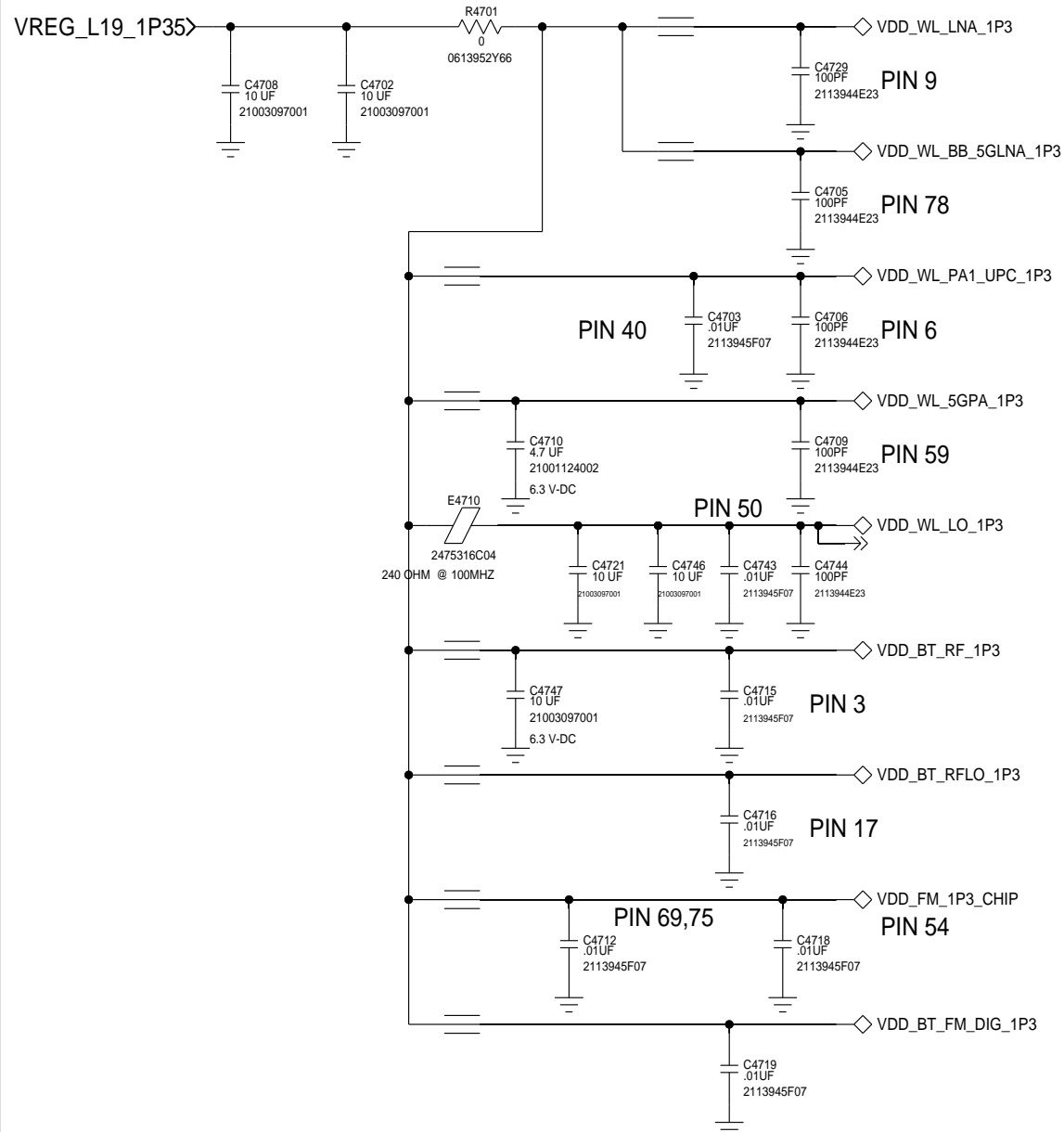
PAGE 8 OF 52

WCN3660B POWER

REF 4700-4799

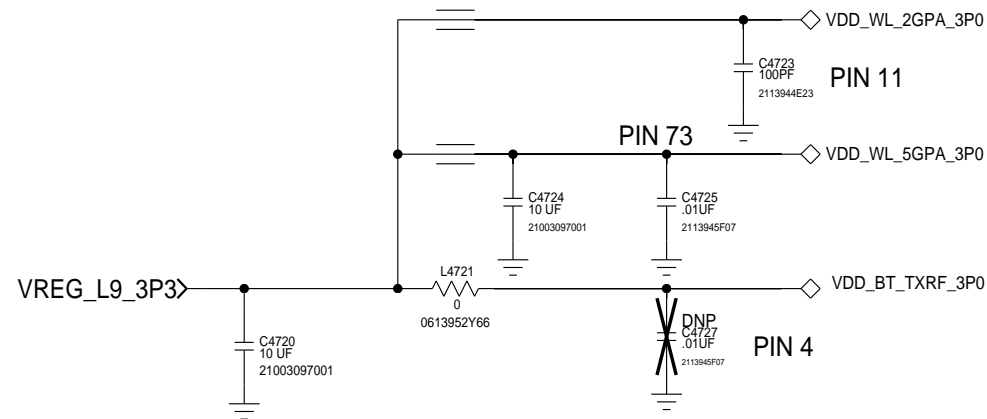
NEED TO SCRUB ALL SUPPLY SEQUENCE/VOLTAGE/CURRENT NUMBERS FOR WCN3660B

BT_FM_WLAN_1P3

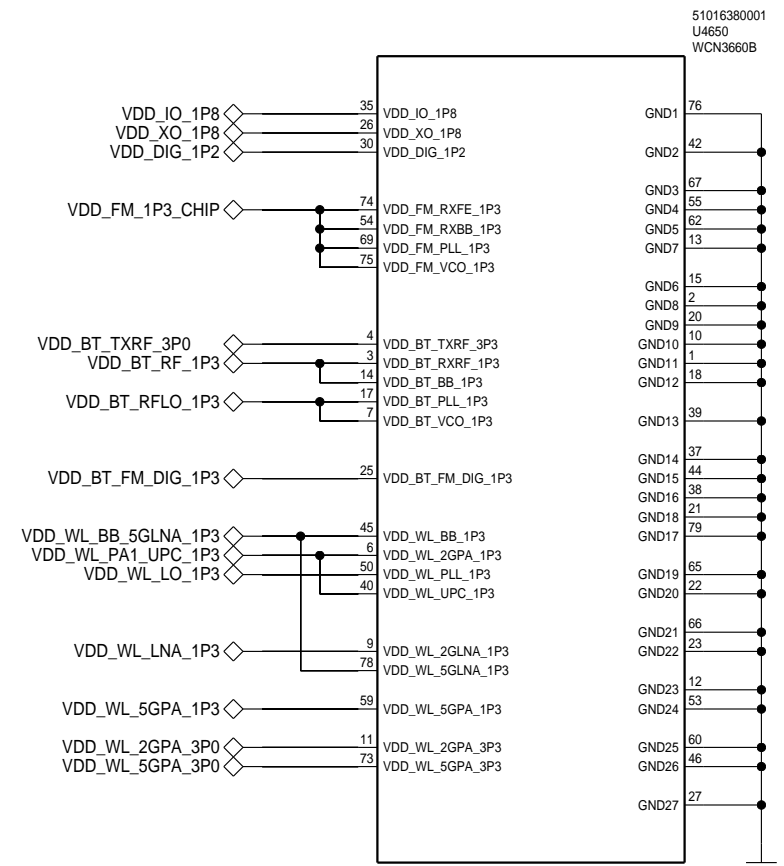
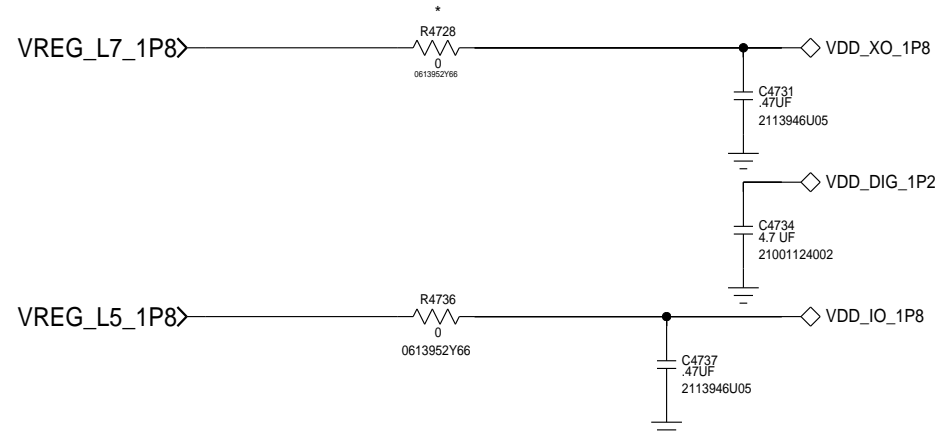


NOTE: RESERVE C4717 AND C4718 FOR 0.01UF BYPASSES

WLBT_3.0V



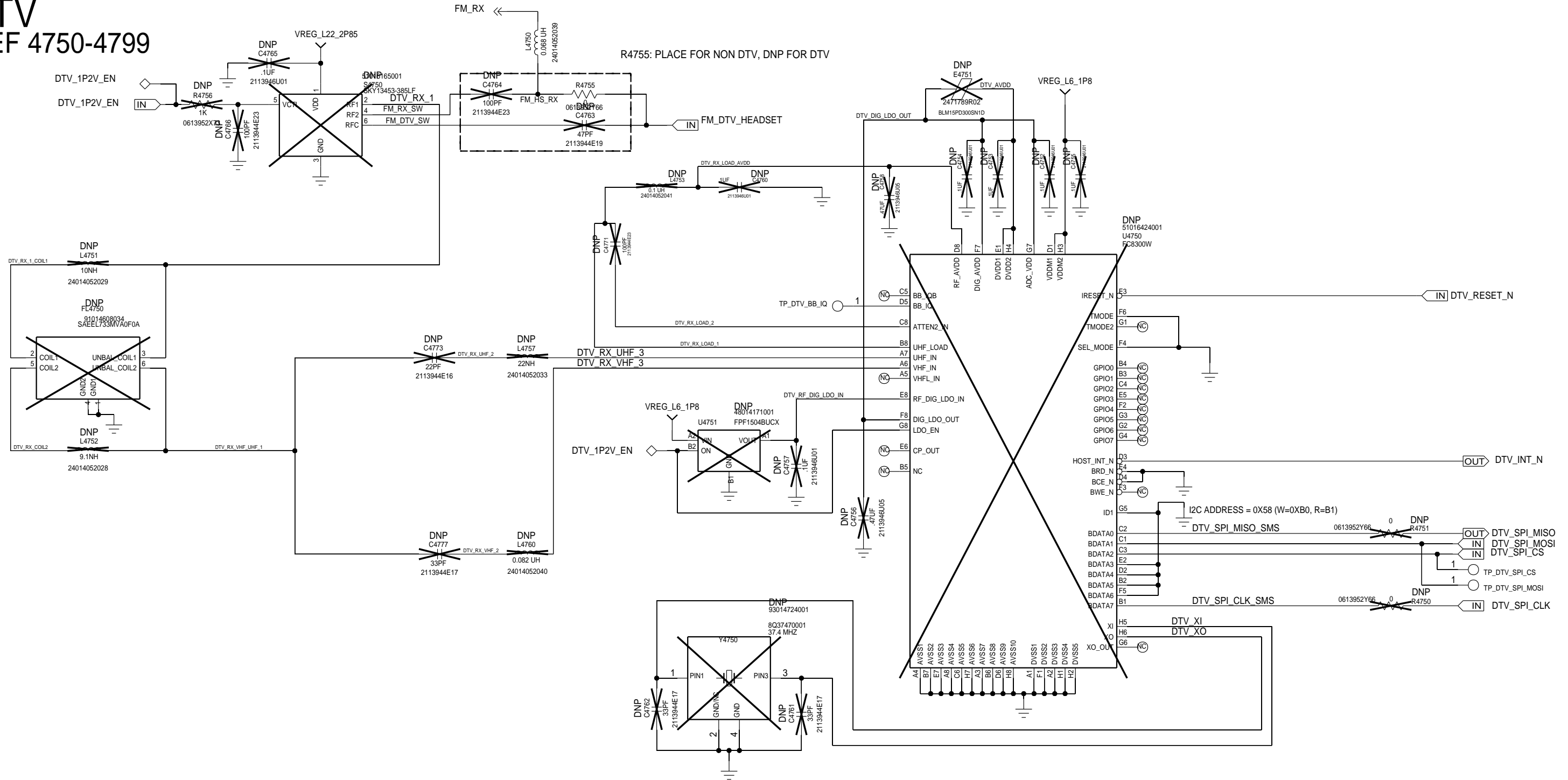
1.8V/2.2V



BASED ON 80-WL006-44 REV C

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Tue Feb 09 13:46:10 2016		connectivity	
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CAD FILE NAME:		PAGE 10 OF 52	

DTV REF 4750-4799

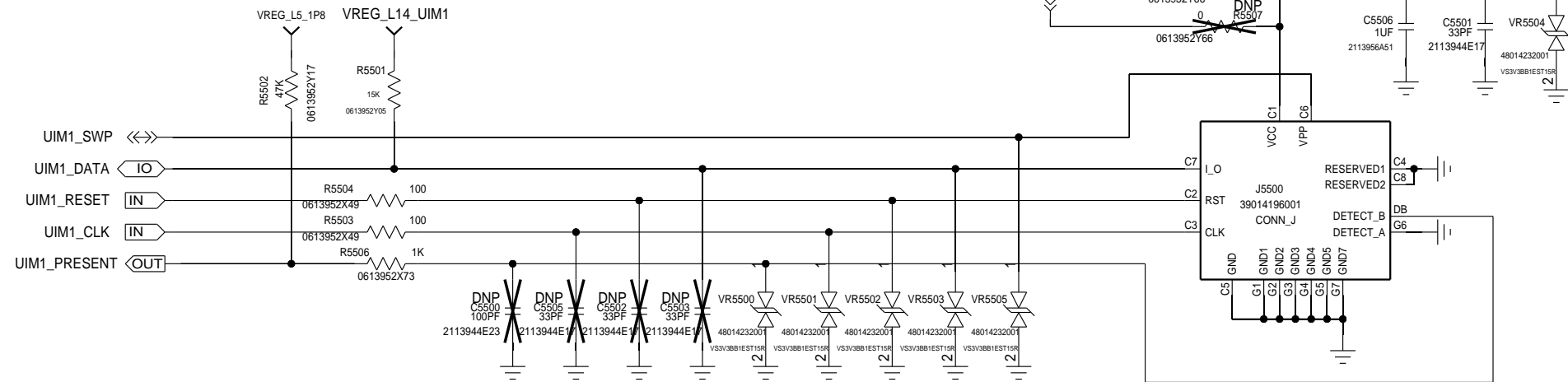


APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: GSHIMON Tue Feb 09 13:46:11 2016		connectivity	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	PAGE 11 OF 52

CONN: UIM 1& 2

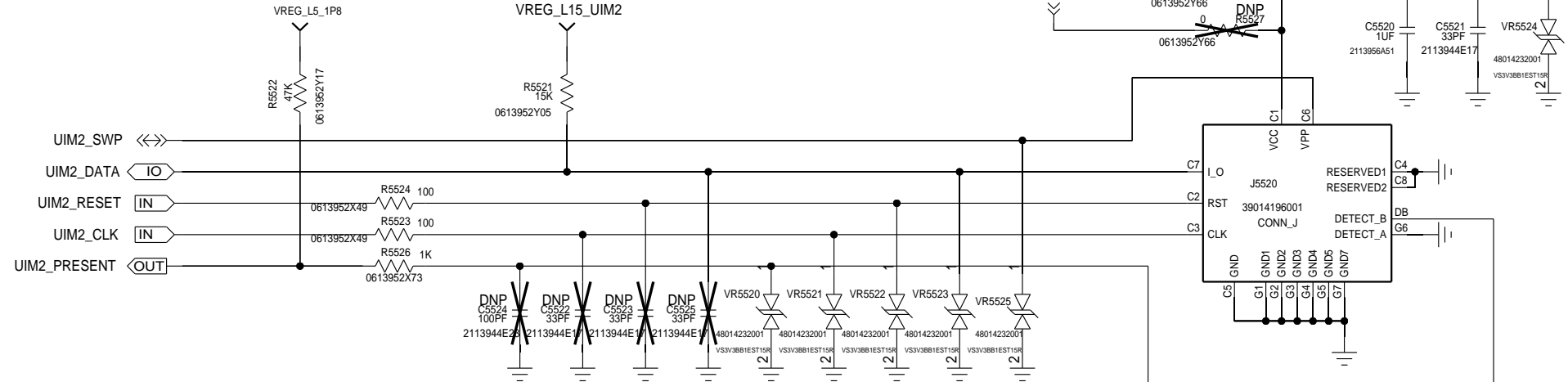
UIM1 CONN

REF:5500-5509



UIM2 CONN

REF:5520-5529



APPROVALS

ENGINEER: FROEHLING

LAST MODIFIED BY: FROEHLING
Tue Feb 09 13:46:14 2016

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BLOCK TITLE:

connectivity

PROJECT NAME
B 84016530001_a.cpm

REV
01

CAD FILE NAME:

PAGE 12 OF 52

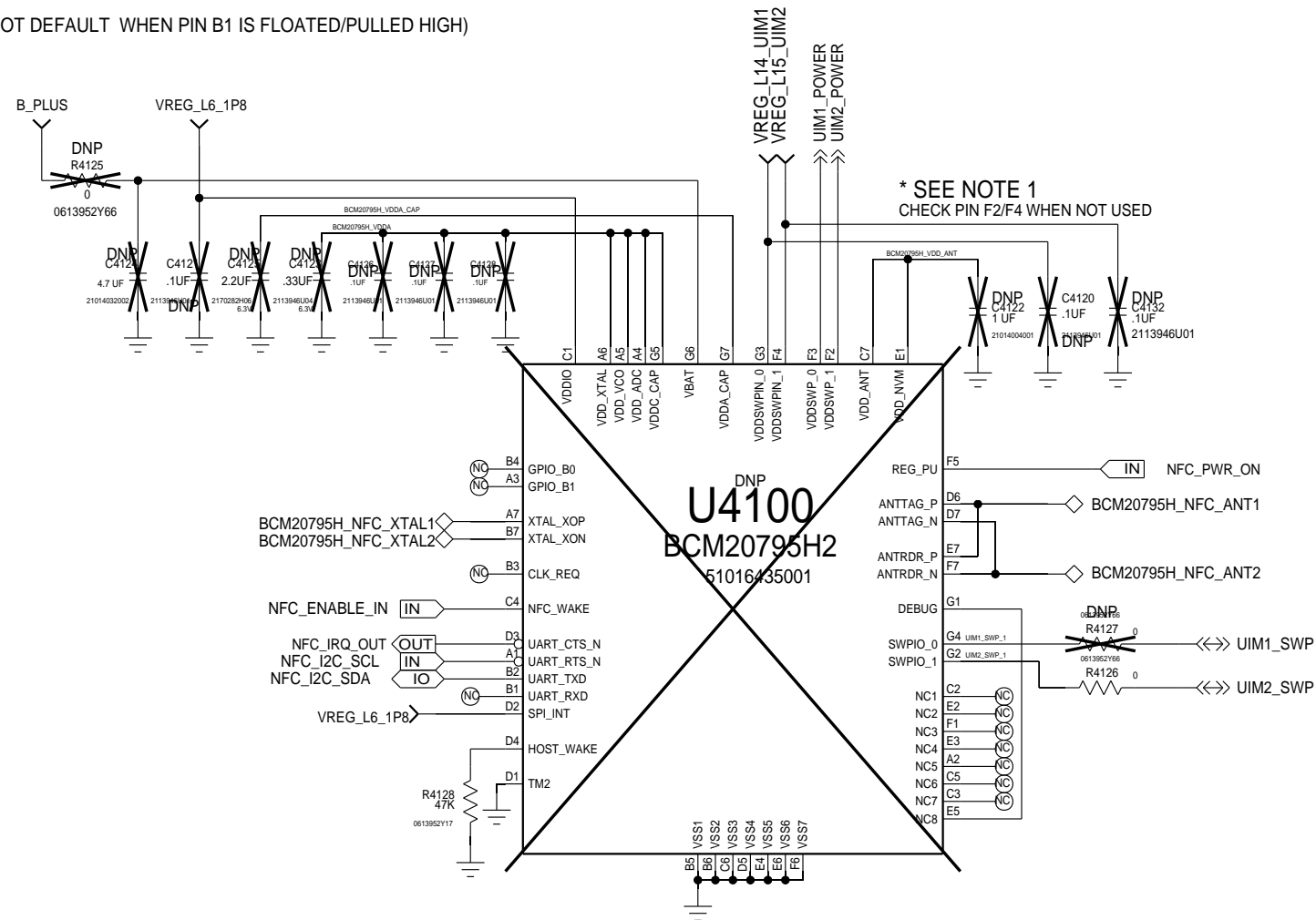
BROADCOM NFC

REF: 4100-4199

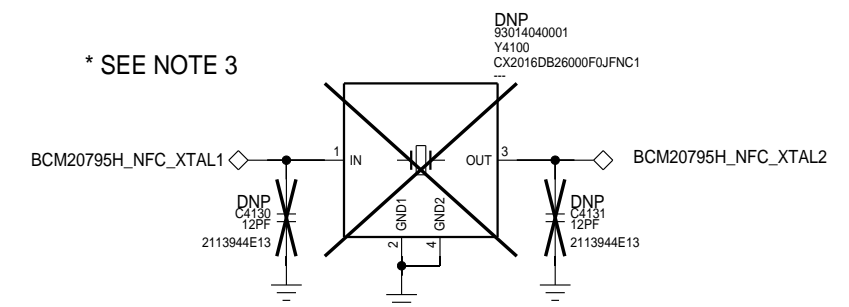
I2C ADDR: 0X77 (BOOT DEFAULT WHEN PIN B1 IS PULLED TO GROUND)

OR

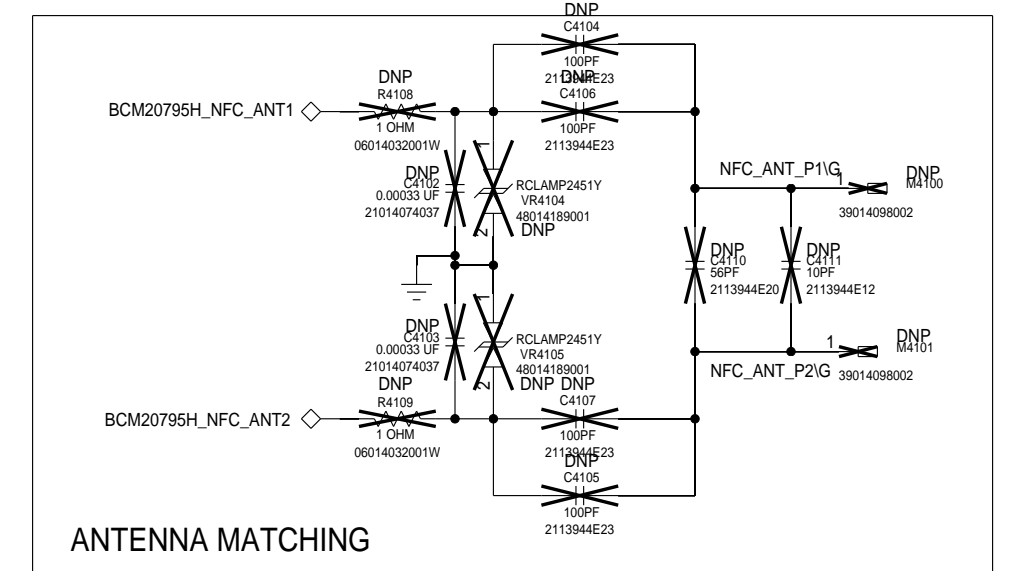
I2C ADDR: 0X76 (BOOT DEFAULT WHEN PIN B1 IS FLOATED/PULLED HIGH)



* SEE NOTE 1
CHECK PIN F2/F4 WHEN NOT USED



* SEE NOTE 3

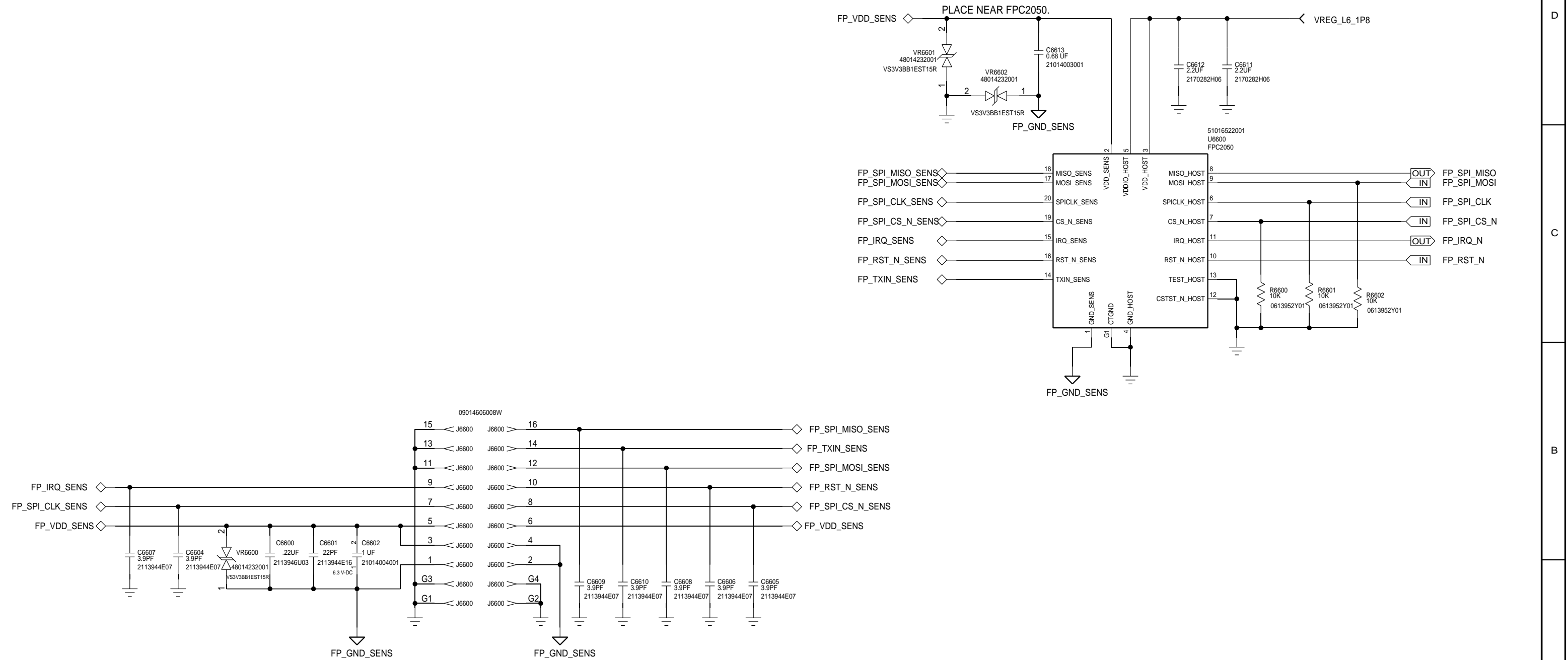


ANTENNA MATCHING

- NOTES:
1. 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.
 2. PLACE U4101 AND C4100 ONLY ON CHINA SKU
 3. 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		MOTOROLA MOBILE DEVICES	
ENGINEER: FROEHLING		BLOCK TITLE:	
LAST MODIFIED BY: FROEHLING Tue Feb 09 13:46:18 2016		connectivity	
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		B 84016530001_a.cpm	01
CAD FILE NAME:		PAGE 13 OF 52	

USR: FPC

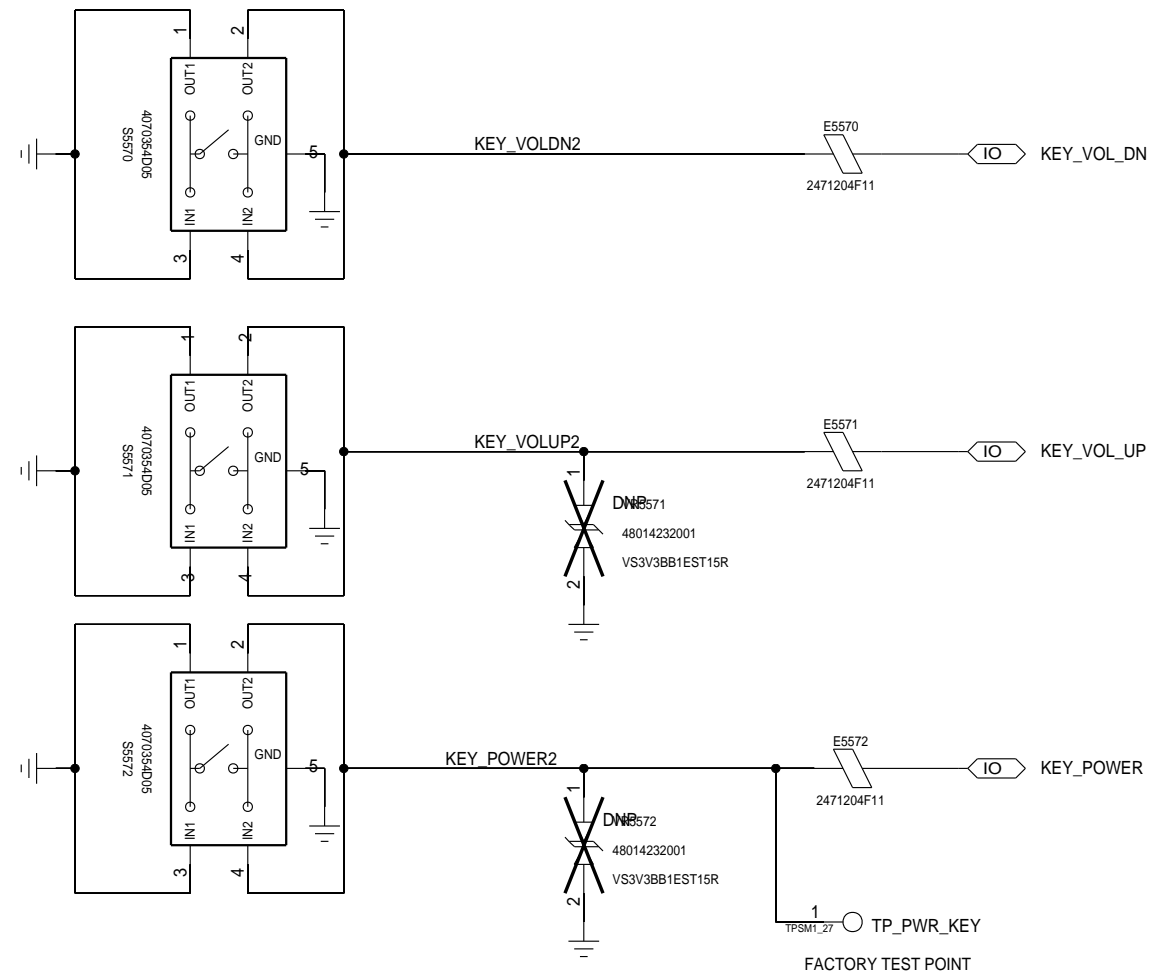


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Tue Feb 09 13:46:20 2016		connectivity	
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		B 84016530001_a.cpm	01
CAD FILE NAME:		PAGE 14 OF 52	

SIDEKEY SWT

REF:5570-5579

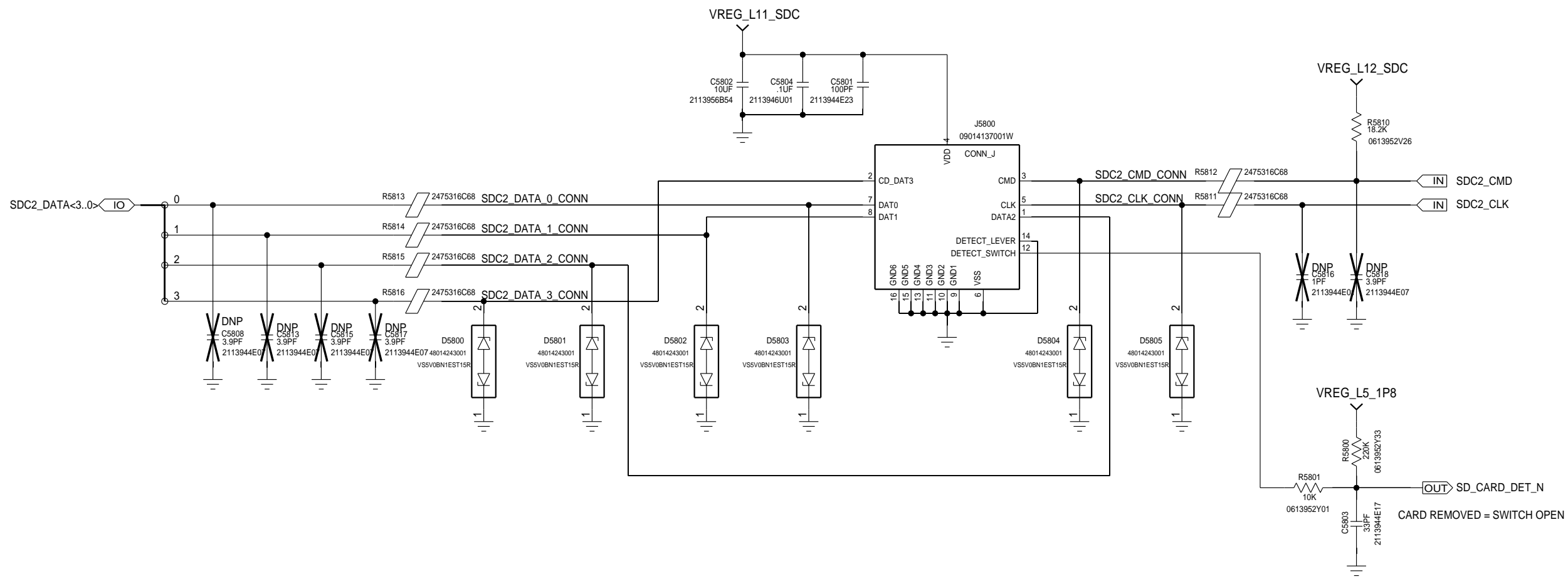
MECHANICAL KEYS



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: NATE CONNELL		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Tue Feb 09 13:46:19 2016		connectivity	
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		B 84016530001_a.cpm	01
CAD FILE NAME:		PAGE 15 OF 52	

USR: MICRO SD

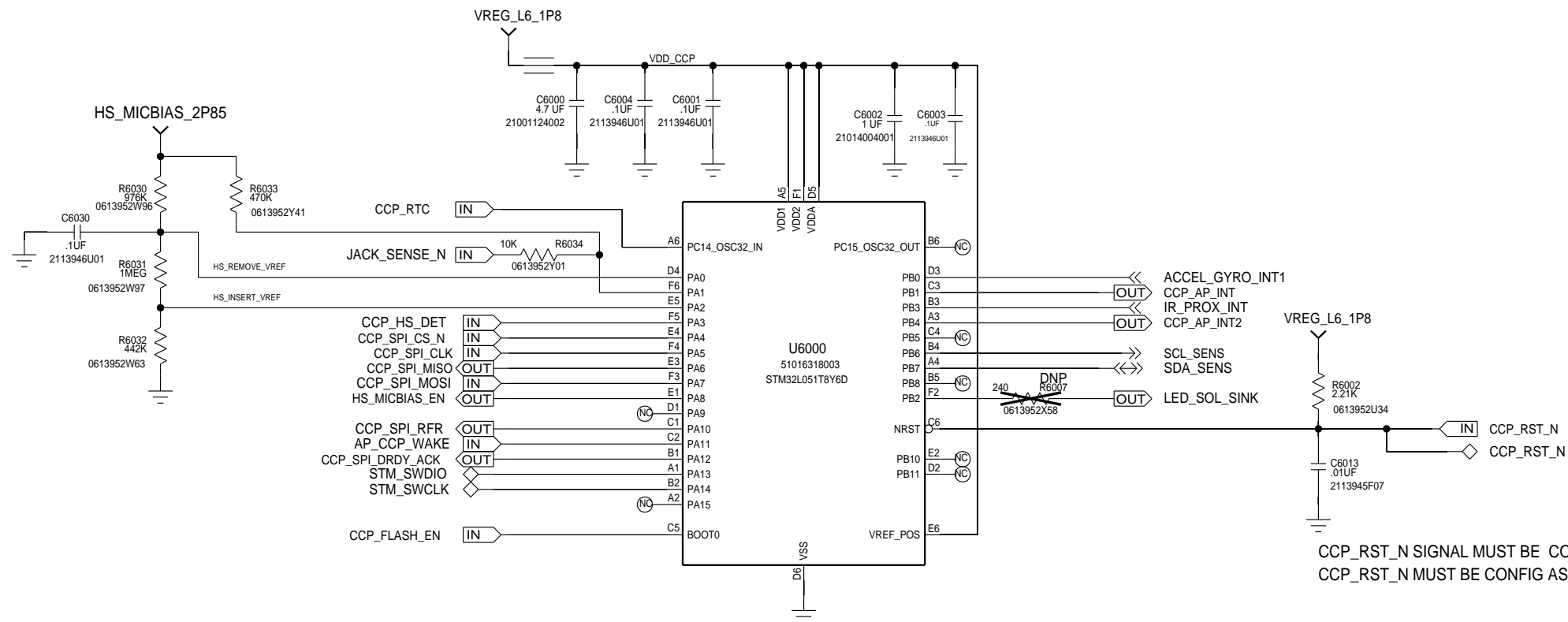
REF:5800-5819



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:18 2016		connectivity	
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		CAD FILE NAME:	
		PAGE 16 OF 52	

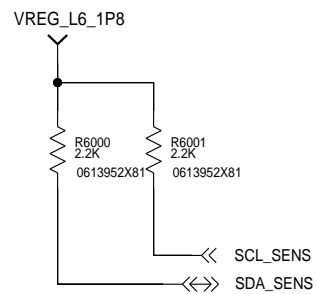
XMCS: CCP

REF: 6000-6049

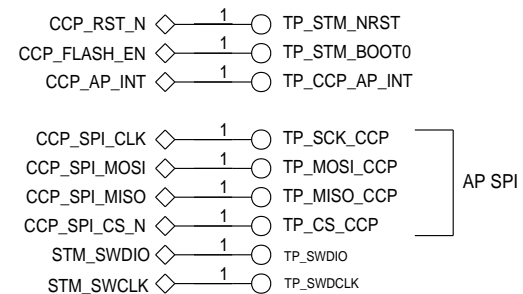


CCP_RST_N SIGNAL MUST BE CONFIG AS OUTPUT LOW FROM MSM TO RESET CCP
 CCP_RST_N MUST BE CONFIG AS INPUT TO MONITOR RESET OUTPUT FROM CCP

I2C SUPPORT



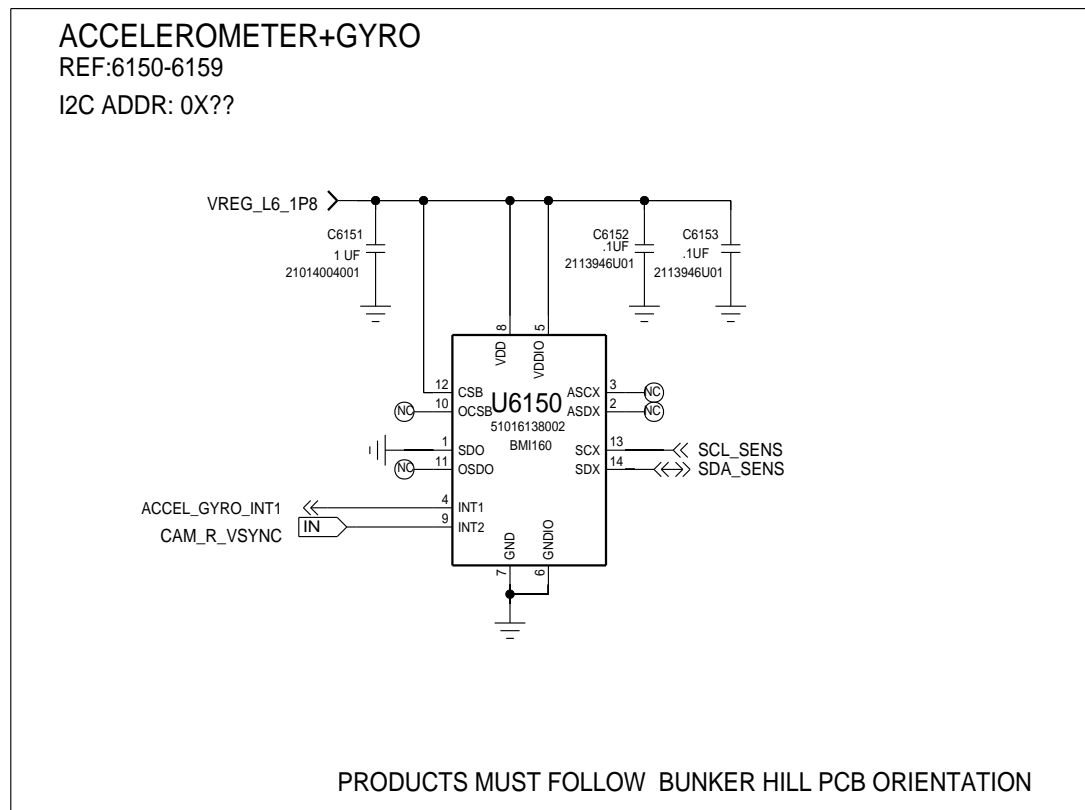
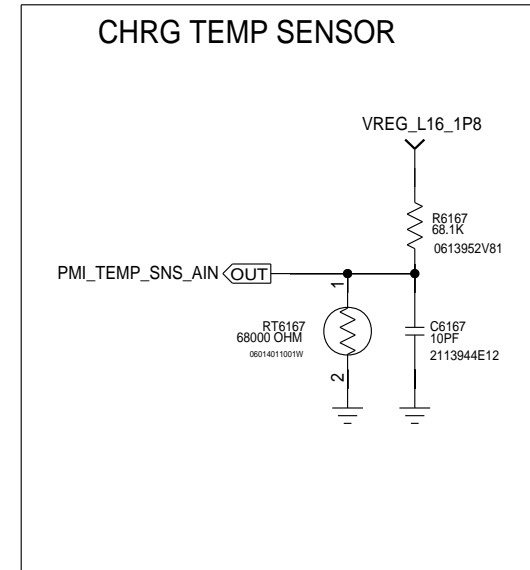
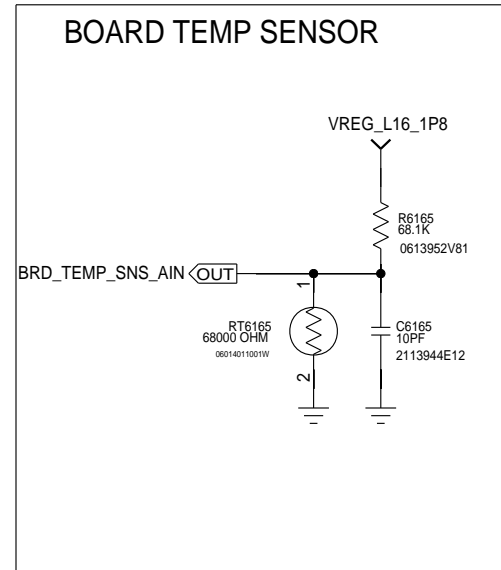
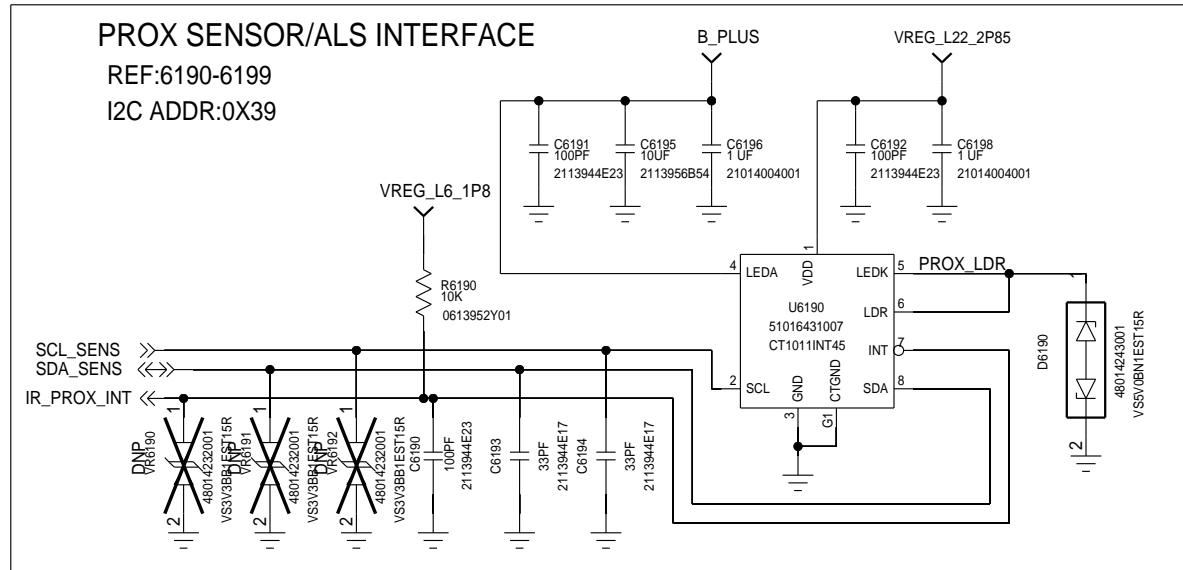
TESTPOINTS



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: JOHN GORSICA		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Tue Feb 09 13:46:22 2016		xmcs	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	
		PAGE 17 OF 52	

XMCS: SENSORS

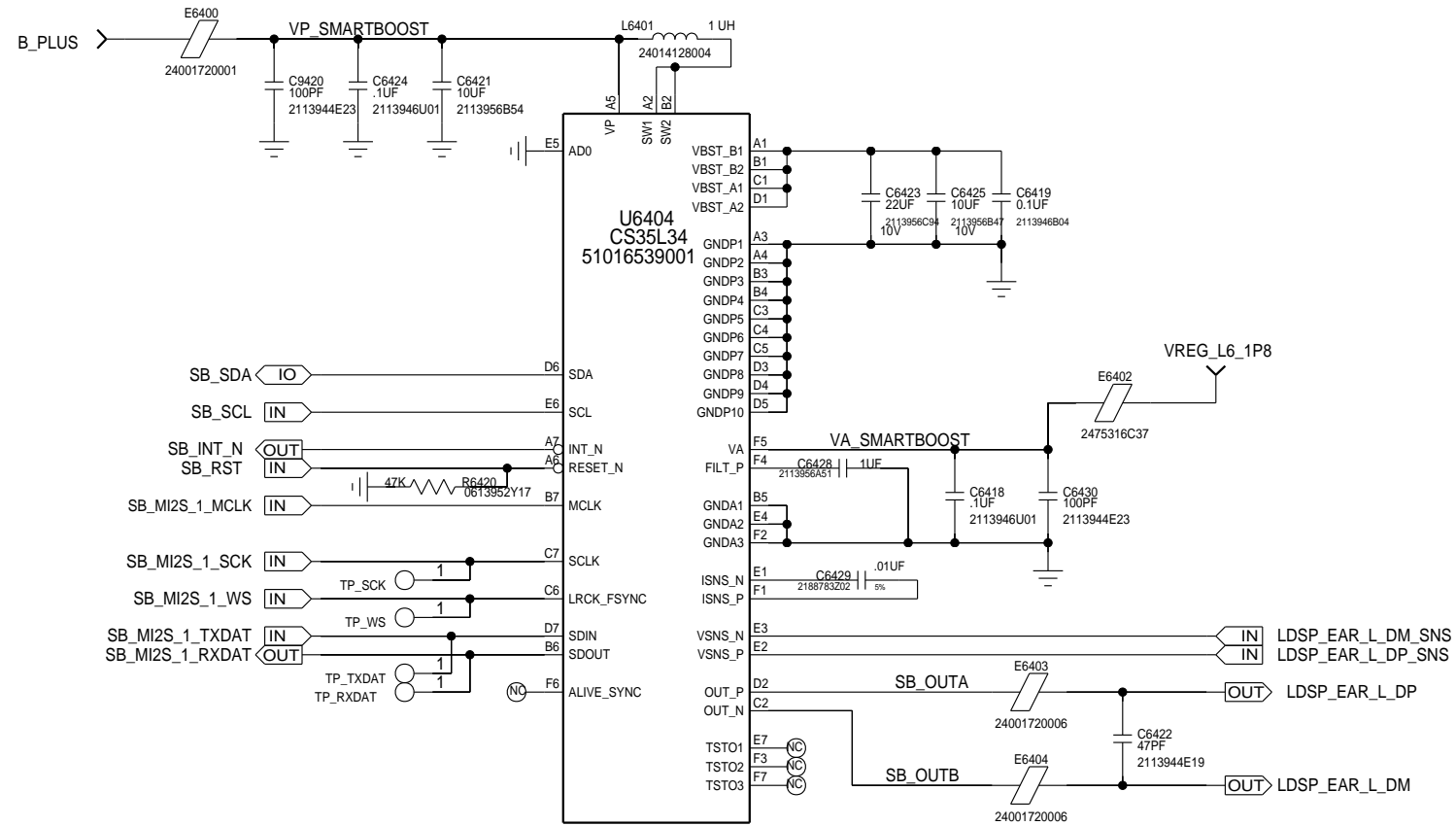
REF: 6100-6199



JOHN GORSICA/NATE CONNELL APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: HUNG PHAM		BLOCK TITLE:	
LAST MODIFIED BY: HUNG PHAM Tue Feb 09 13:46:24 2016		xmcs	
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.</small>		PROJECT NAME	REV
		B 84016530001_a.cpm	01
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		PAGE 18 OF 52	

XMCS: SMART BOOST WATTSON

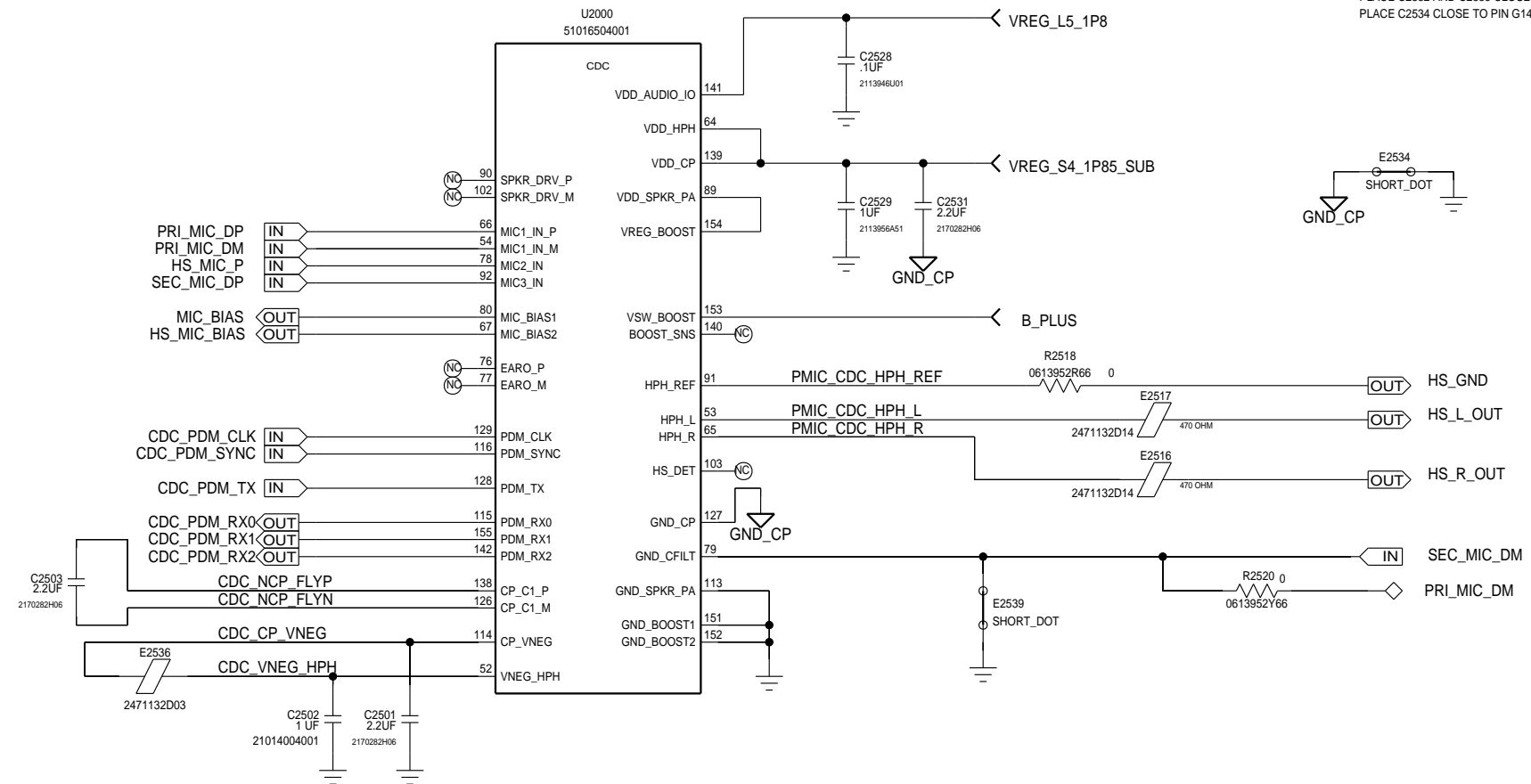
REF 6400-6499



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Tue Feb 09 13:46:23 2016		xmcs	
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		CAD FILE NAME:	
		PAGE 19 OF 52	

XMCS: CODEC

REF 2500-2579

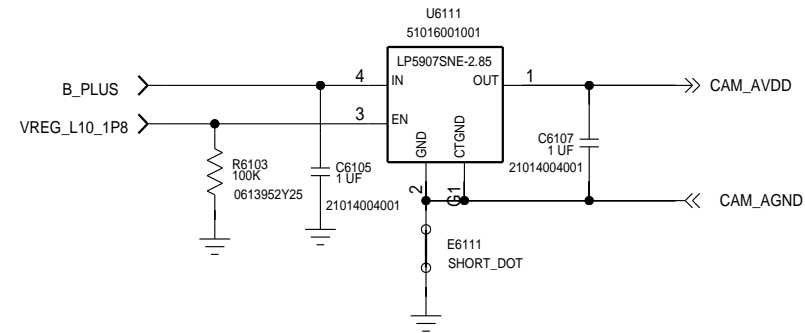


CAD NOTE:
 PLACE C2532 AND C2533 CLOSE TO PIN A11 AND B11
 PLACE C2534 CLOSE TO PIN G14
 PLACE C2532 AND C2533 CLOSE TO PIN A11 AND B11
 PLACE C2534 CLOSE TO PIN G14

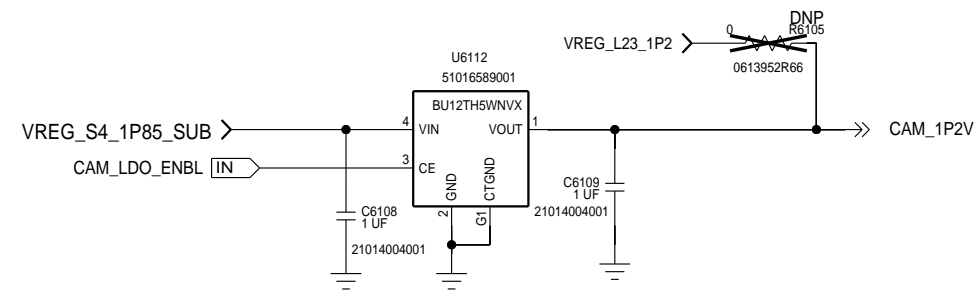
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Tue Feb 09 13:46:23 2016		xmcs	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016530001_a.cpm	REV 01
		CAD FILE NAME:	
		PAGE 20 OF 52	

CAM: POWER

CAMERA ANALOG - 2.85V



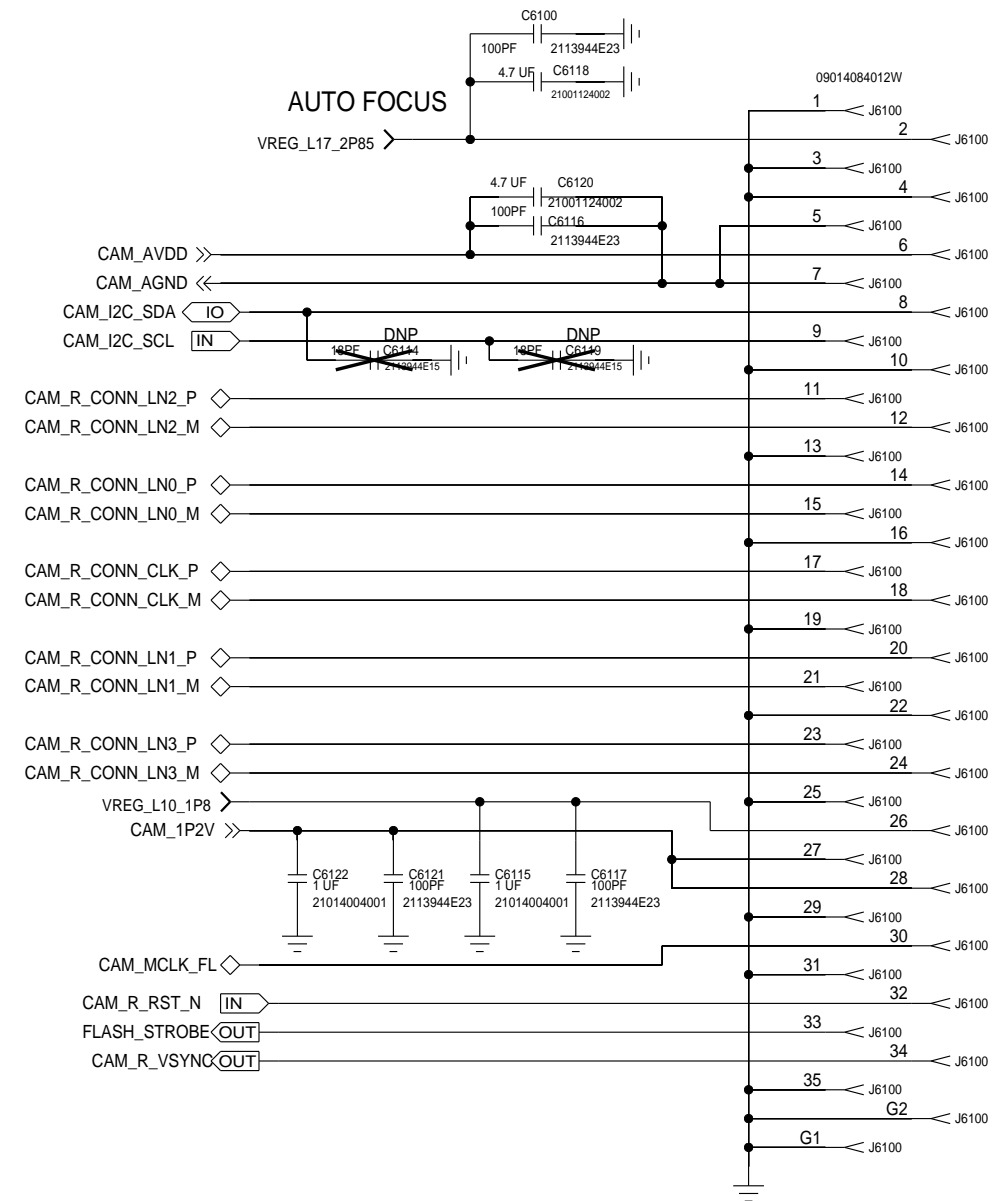
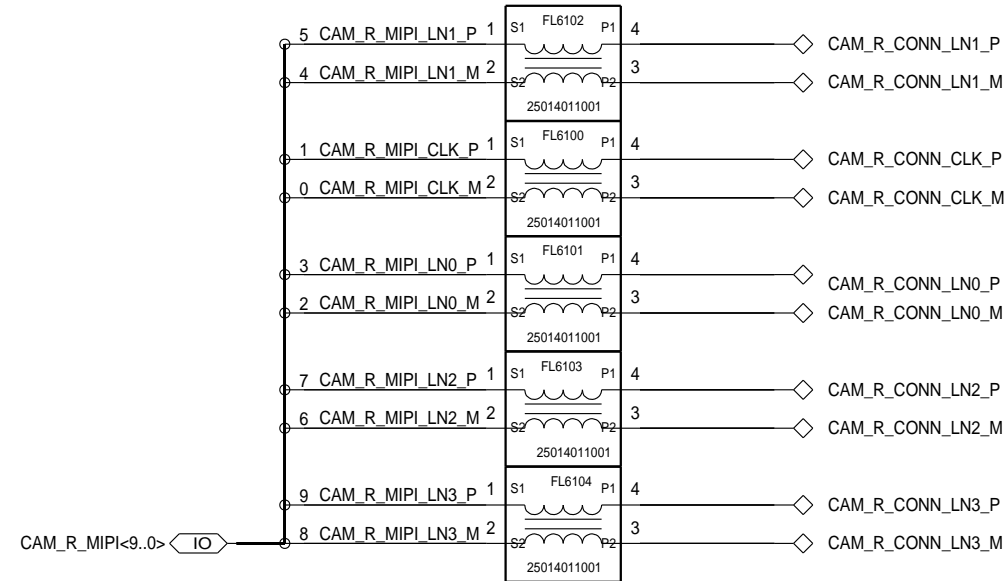
CAMERA CORE - 1.2V



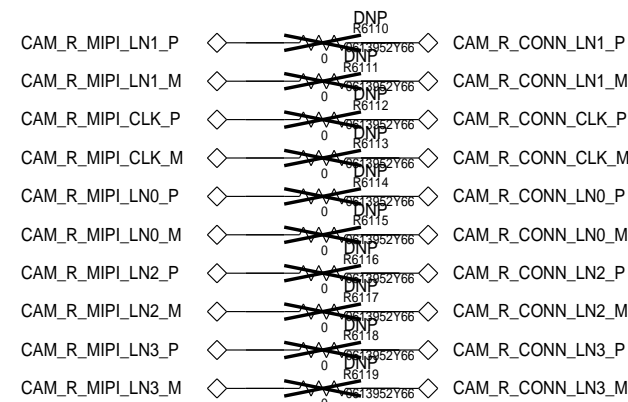
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:47 2016		multimedia	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016530001_a.cpm	01
CAD FILE NAME:		PAGE 21 OF 52	

CAM: REAR

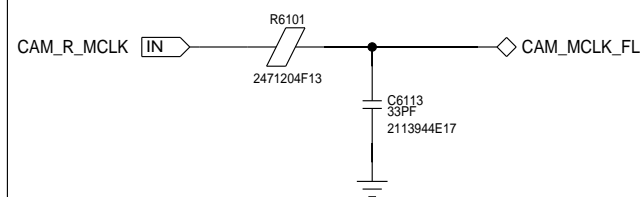
REF:6100-6124



COMMON MODE CHOKE BYPASS

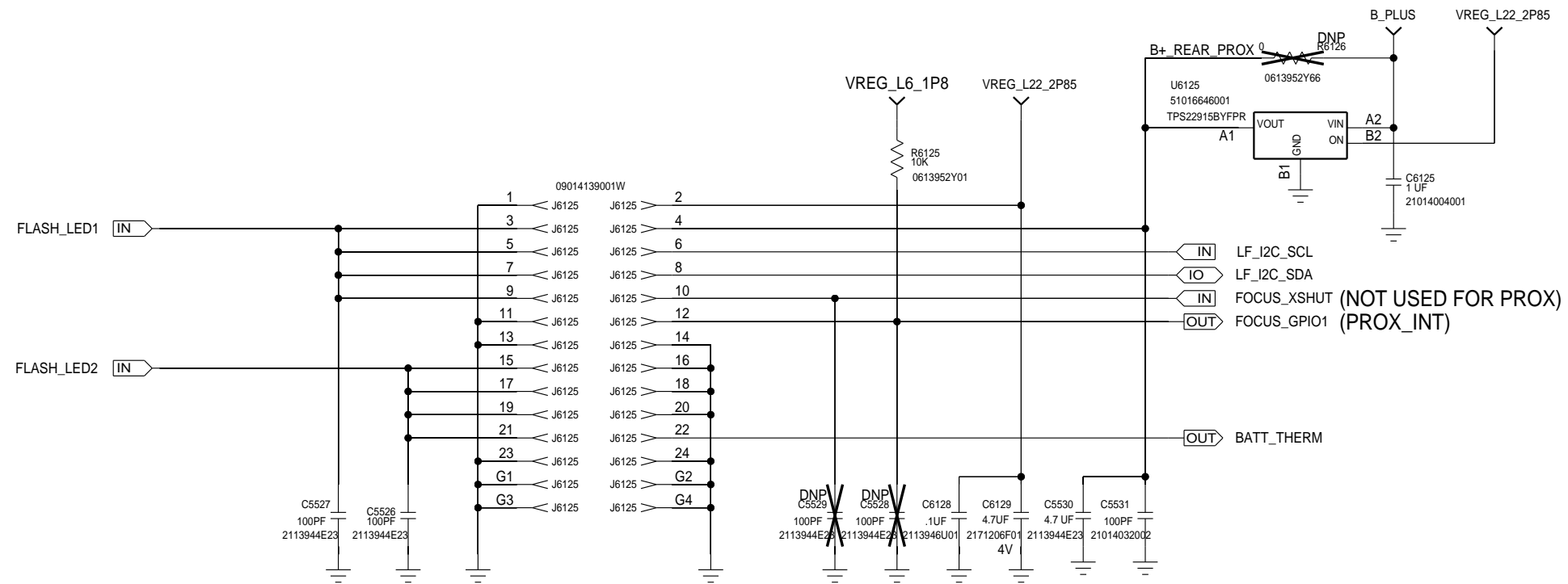


EMI/ESD FILTER



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: JOHN KRAMER		BLOCK TITLE:	
LAST MODIFIED BY: AZIZ NOORI Tue Feb 09 13:46:48 2016		multimedia	
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		CAD FILE NAME:	PAGE 22 OF 52

LASER FOCUS & FLASH CONN



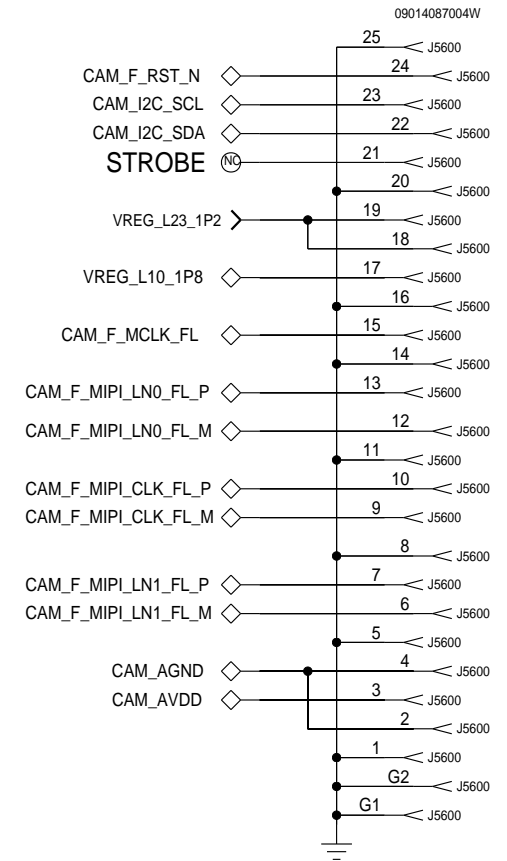
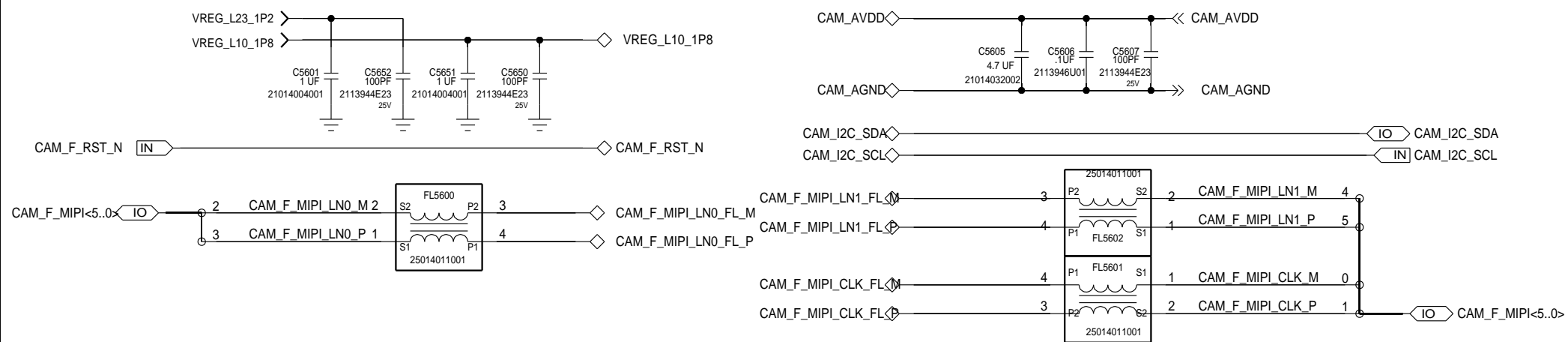
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: RICH WOLNY		BLOCK TITLE:	
LAST MODIFIED BY: HUNG PHAM Tue Feb 09 13:46:56 2016		multimedia	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016530001_a.cpm	01
CAD FILE NAME:		PAGE 23 OF 52	

CAM: FRONT

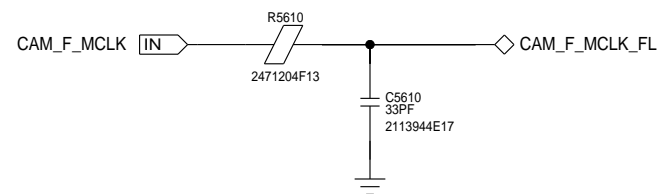
REF 5600-5649

FF CAMERA CONNECTOR

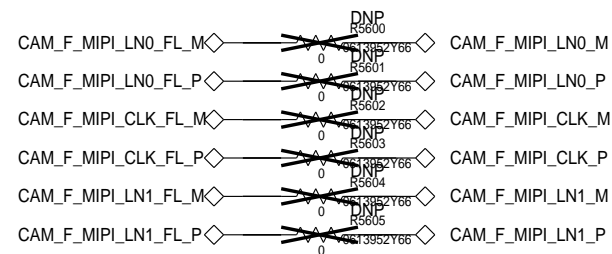
FRONT CAM I2C ADDR:



EMI/ESD FILTER



COMMON MODE CHOKE BYPASS



APPROVALS

ENGINEER: JOHN KRAMER

LAST MODIFIED BY: NATE CONNELL
Tue Feb 09 13:46:51 2016

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BLOCK TITLE:

multimedia

PROJECT NAME

B 84016530001_a.cpm

REV

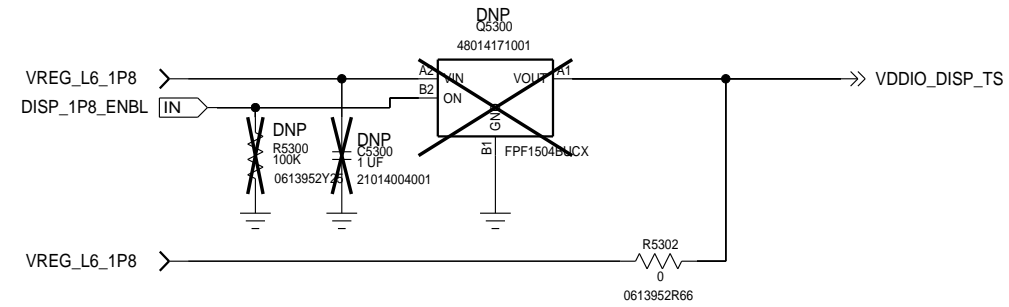
01

CAD FILE NAME:


PAGE 24 OF 52

DISP: POWER

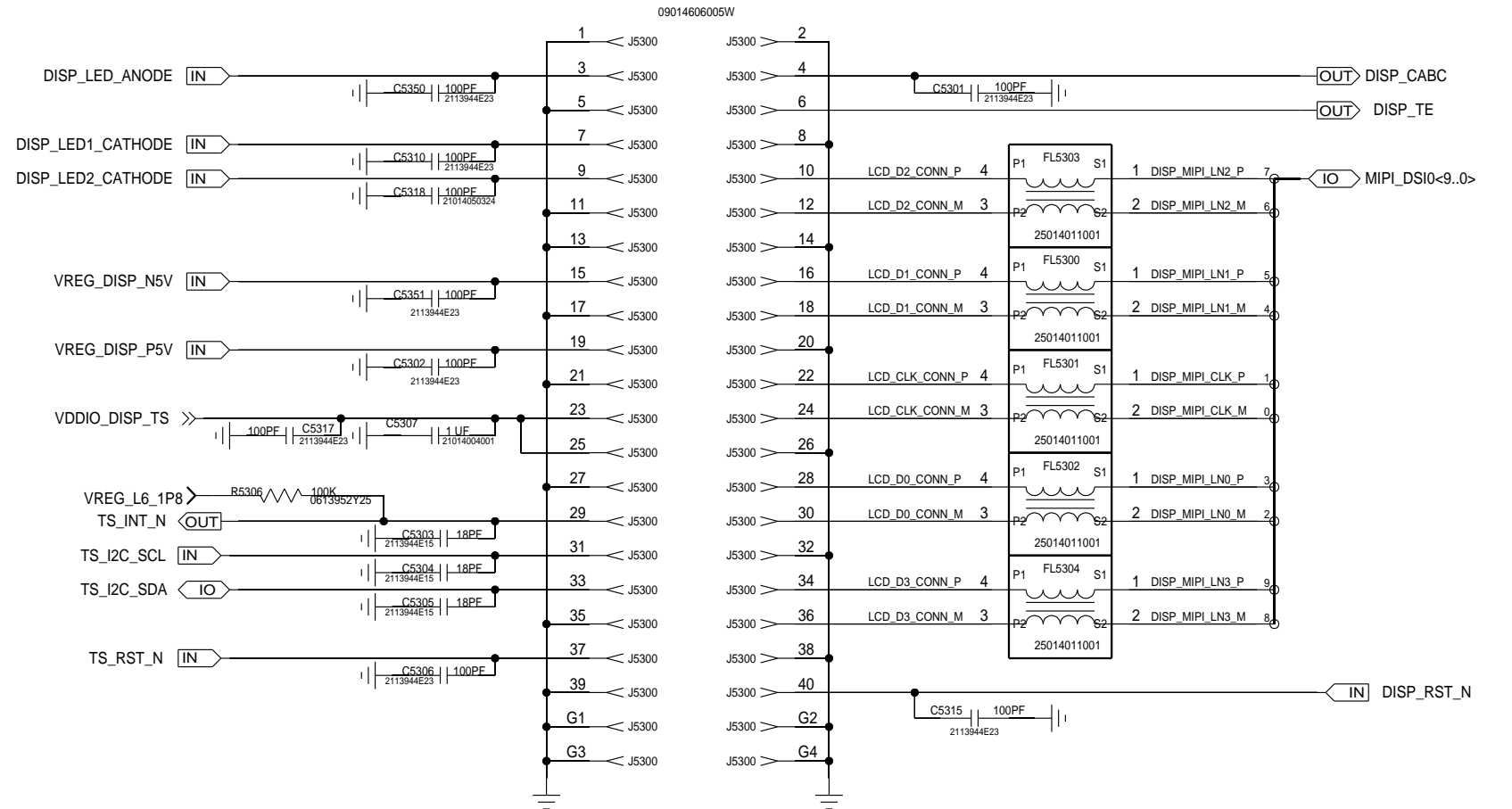
DISPLAY DIGITAL SUPPLY



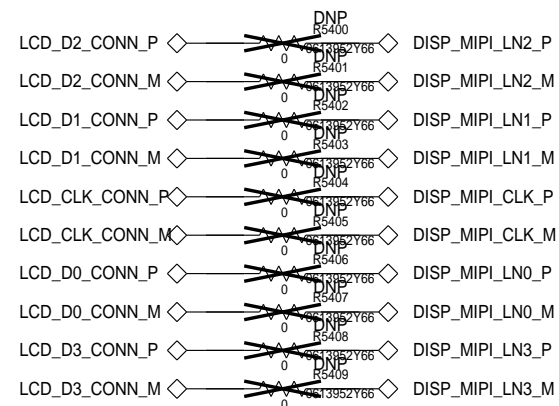
PLACE Q5300, R5300, C5300, DNI R5302 IF LOAD SWITCH IS USED.
OTHERWISE PLACE R5302 AND DNI Q5300, R5300, C5300.

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:55 2016		multimedia	
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		B 84016530001_a.cpm	01
		PAGE 25 OF 52	

DISP: CONNECTOR



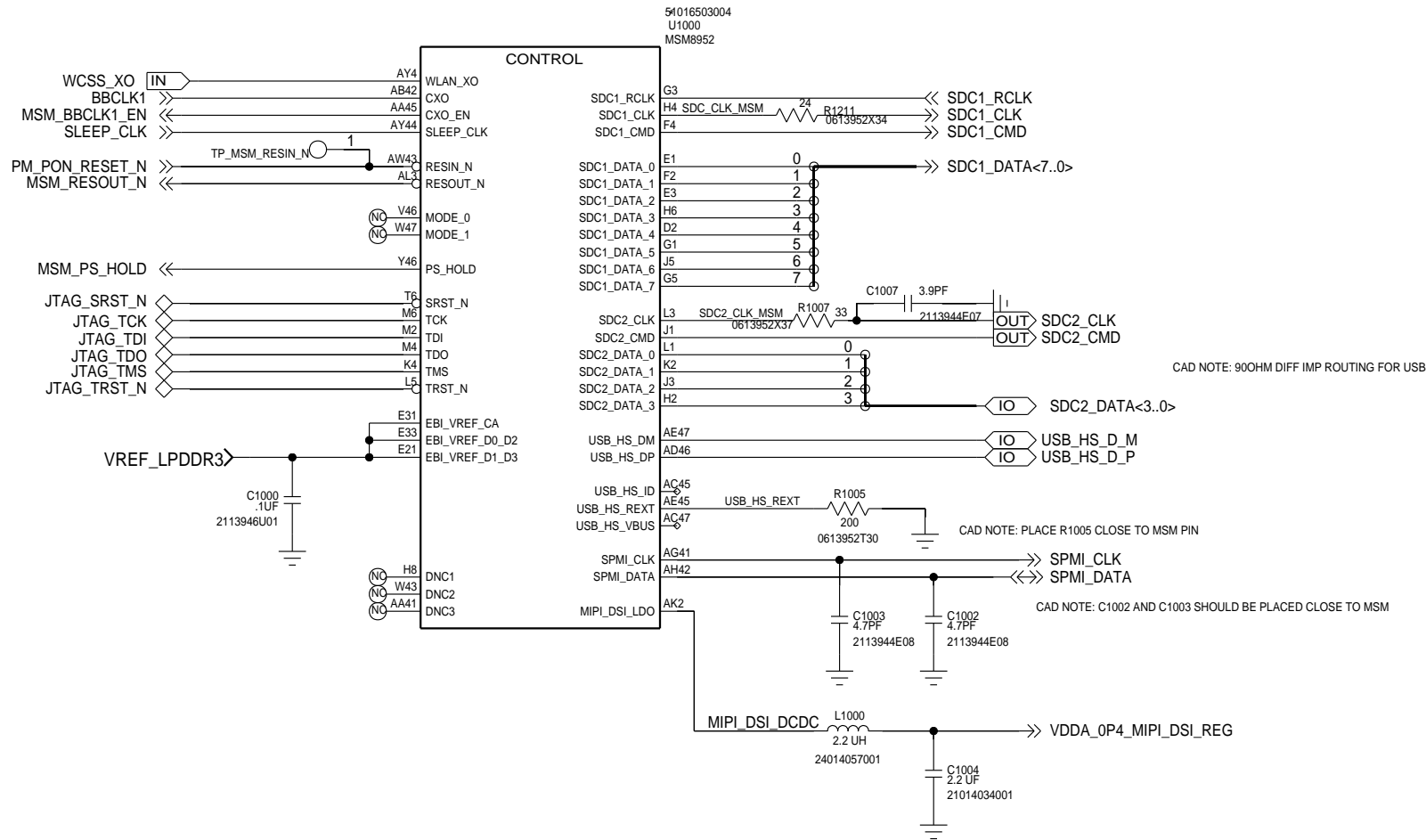
COMMON MODE CHOKE BYPASS



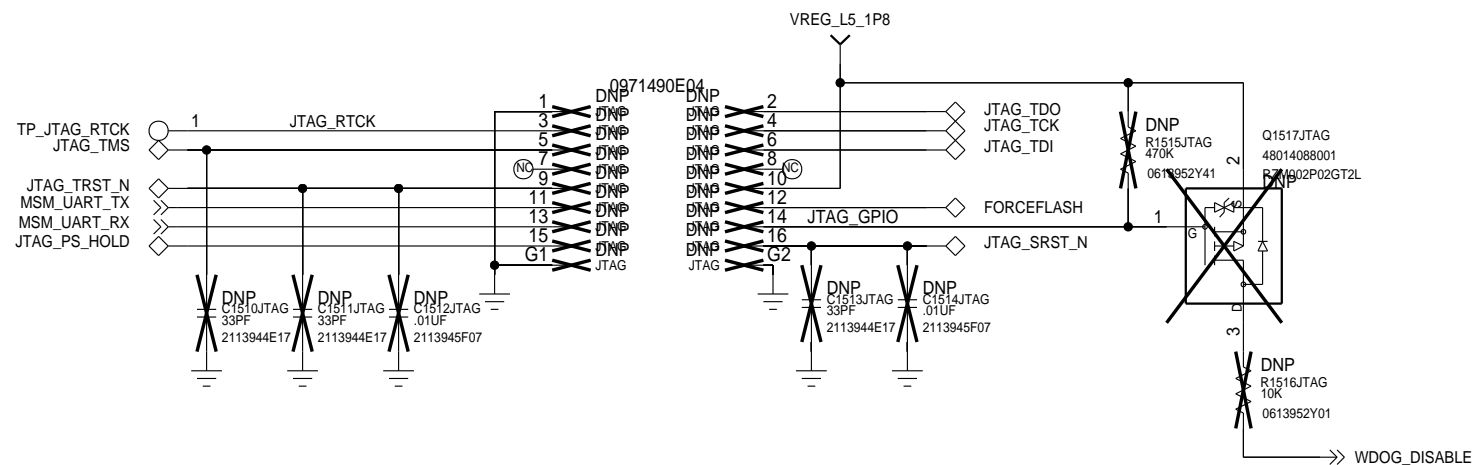
APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:52 2016		multimedia	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	PAGE 26 OF 52

MSM: CTRL

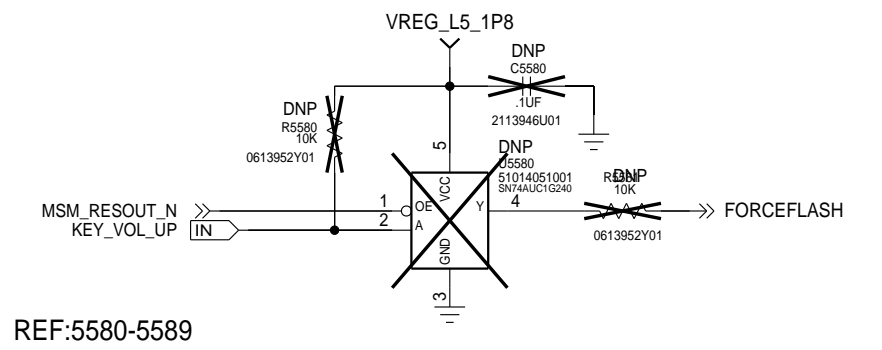
REF 1000-1099



JTAG:MINI



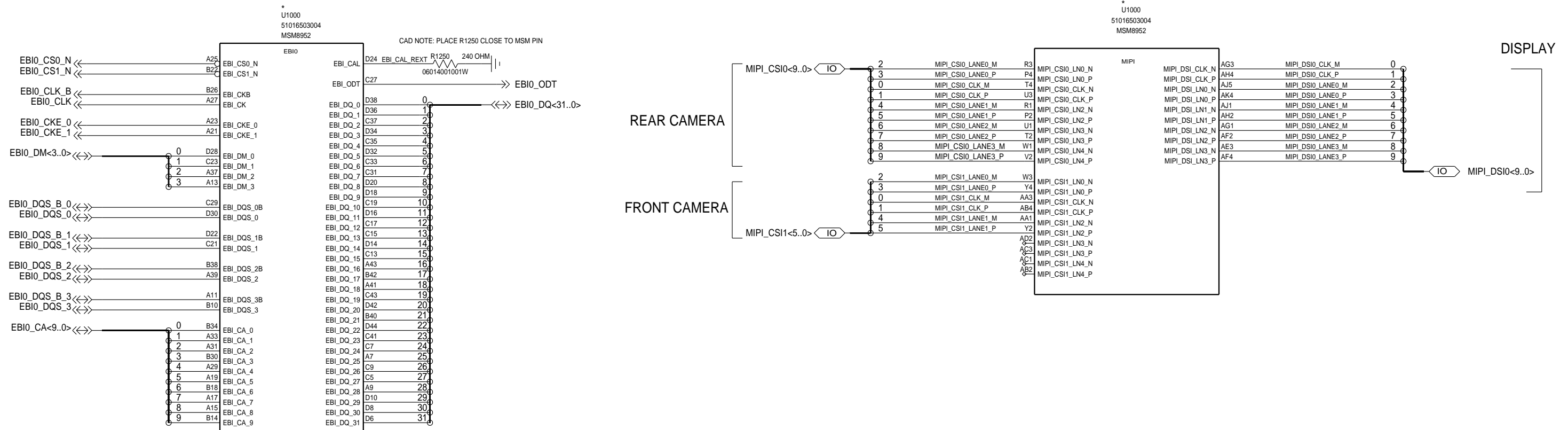
FORCE FLASH SUPPORT WITH VOL UP KEY (DNI FOR PRODUCTION)



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Tue Feb 09 13:46:26 2016		ap_pmic	
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MSM: MIPI/DSI/CSI/EBIO

REF 1200-1299



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Tue Feb 09 13:46:36 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 28 OF 52	

MSM: GPIO (0-133)

REF 1200-1299

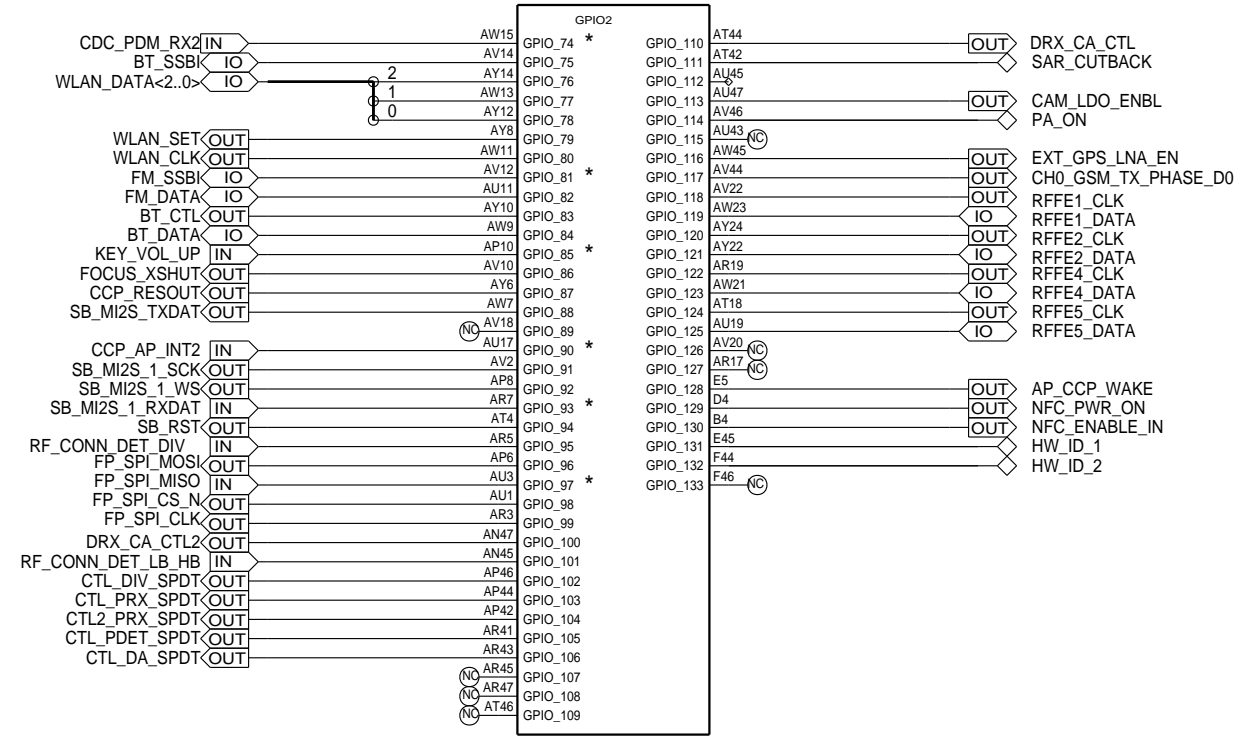
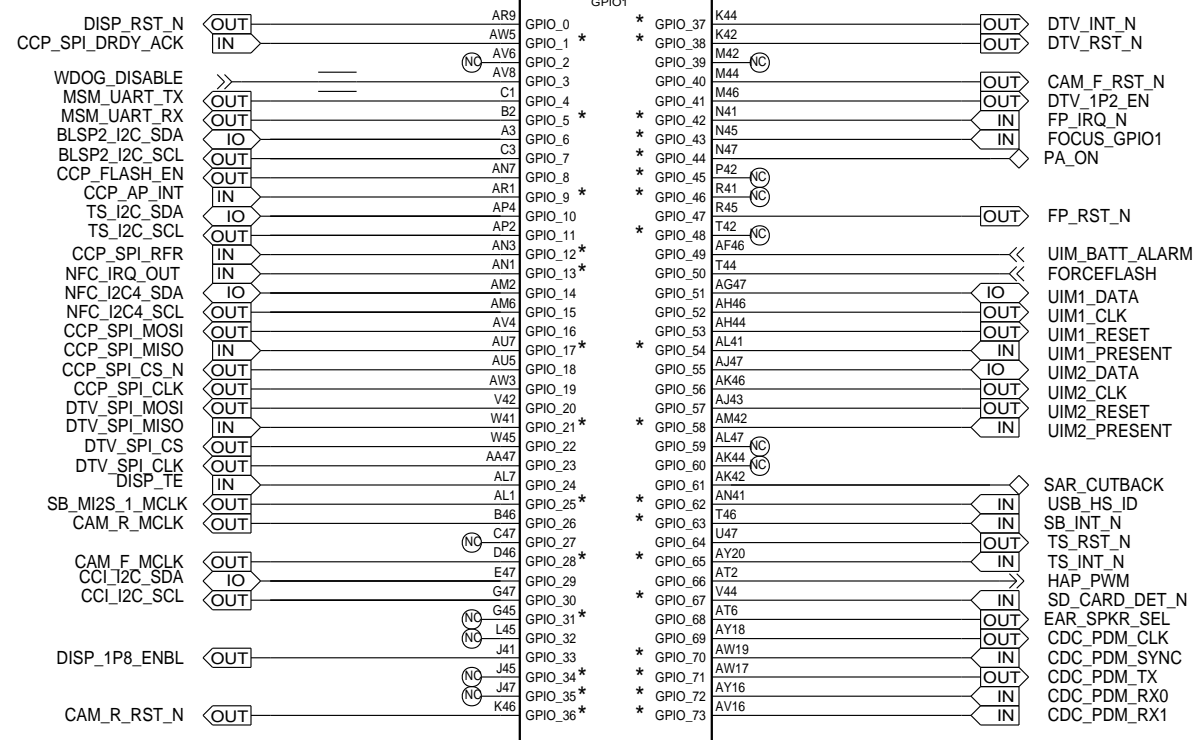
NOTE: RESERVE GPIO_3 FOR WDOG_DISABLE FUNCTION.
DO NOT HAVE A PULL-UP ON THIS GPIO FOR BETTER SW DEBUG CAPABILITY.

U1000
MSM8952
51016503004

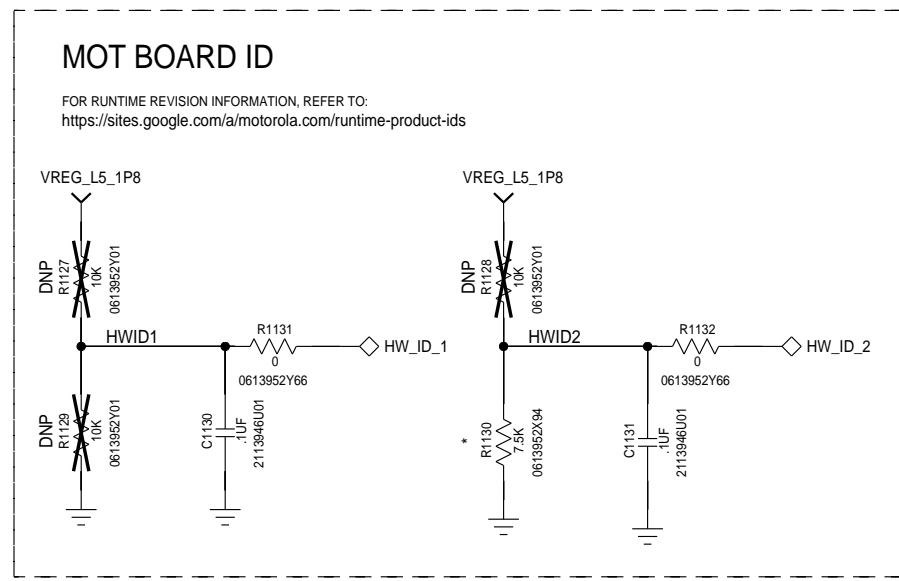
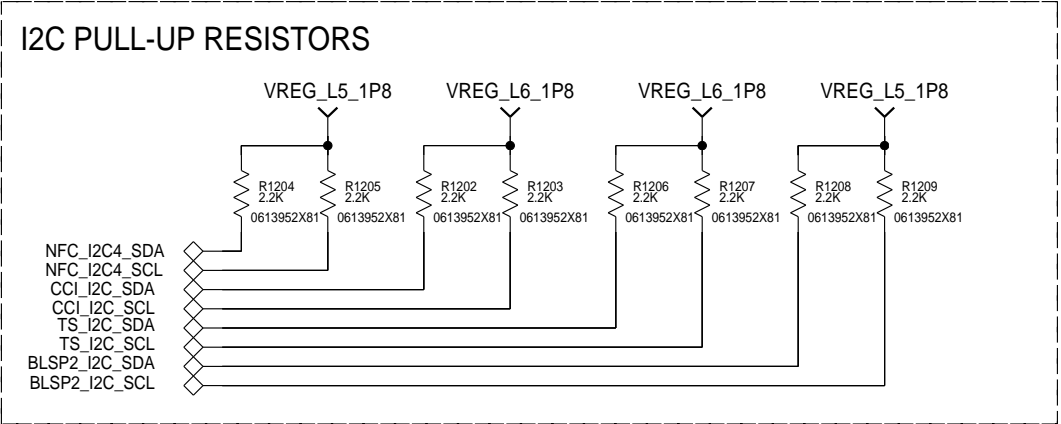
NOTE: ASTERISK(*) INDICATE MODEM POWER MANAGEMENT (MPM) WAKE-UP PINS.

NOTE: DO NOT HAVE PULL-UPS ON THE FOLLOWING GPIOs UNLESS INTEND FOR BOOT OR SECURE BOOT RELATED CONFIGURATIONS:
GPIO_8, 9, 91, 107, 108, 109

U1000
MSM8952
51016503004



WAITING FOR GPIO ASSIGNMENT
NEED WAKABLE

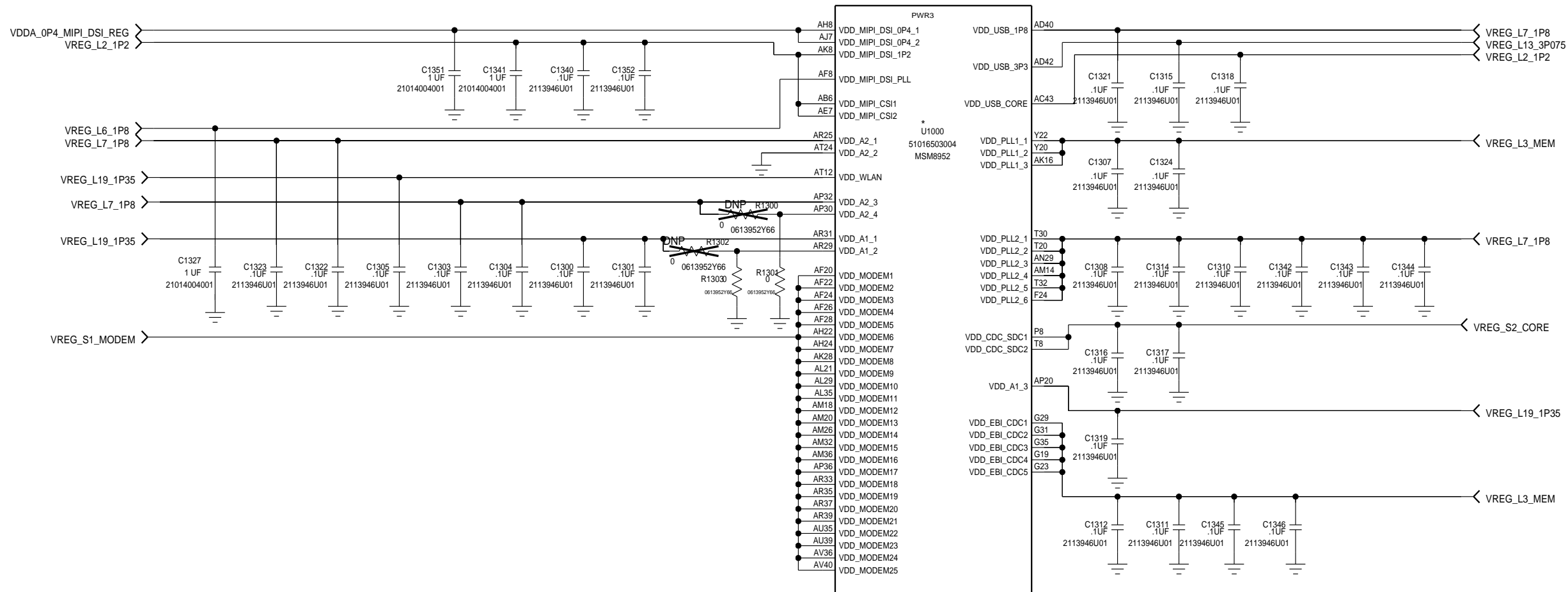


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Tue Feb 09 13:46:38 2016		ap_pmic	
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CAD FILE NAME:		PAGE 29 OF 52	

MSM: PWR1

REF 1300-1399

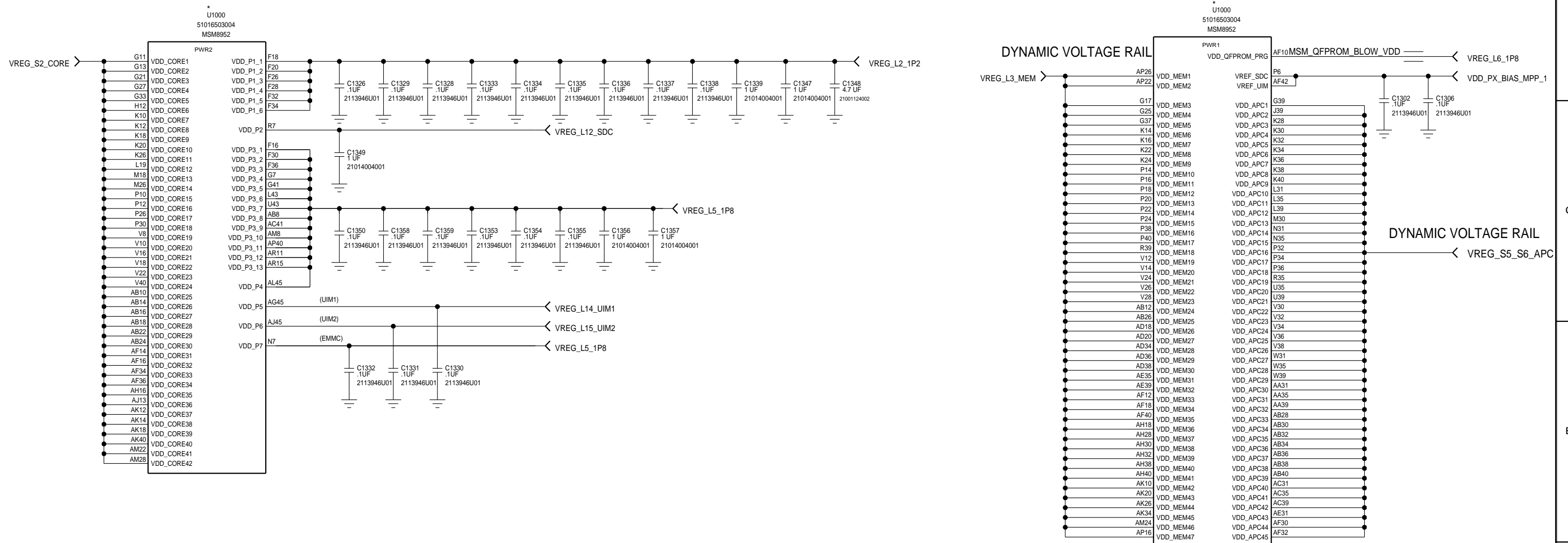
CAD NOTE: PLACE ONE DECAP NEAR PINS V5, V6 AND THE OTHER DECAP NEAR PIN R5



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Tue Feb 09 13:46:31 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 30 OF 52	

MSM: PWR2

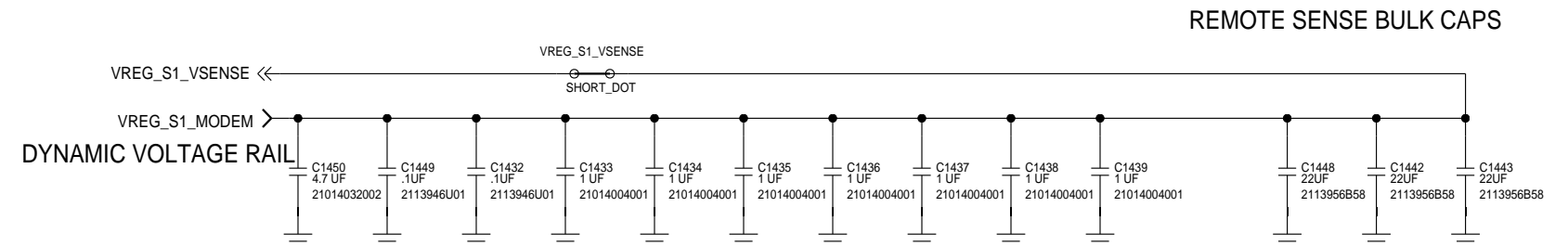
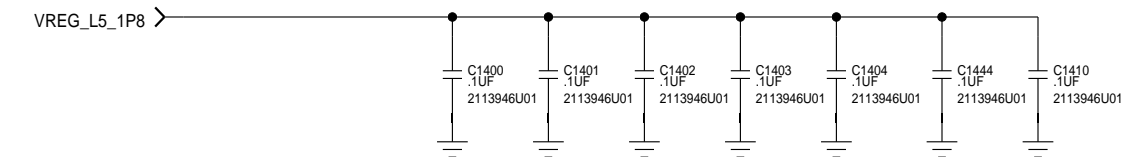
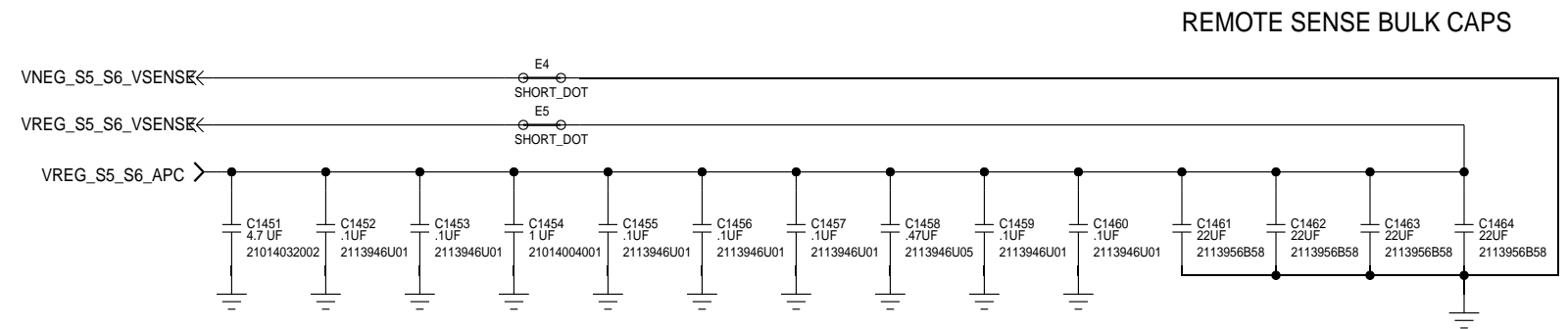
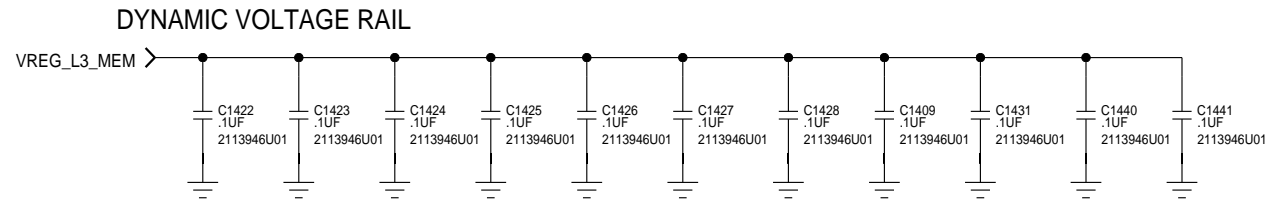
REF 1300-1399



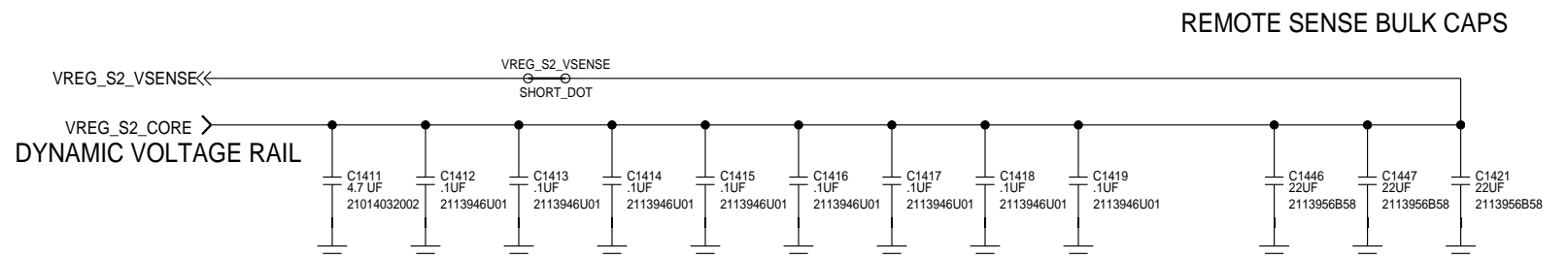
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Tue Feb 09 13:46:39 2016		ap_pmic	
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		B 84016530001_a.cpm	01
		CAD FILE NAME:	
		PAGE 31 OF 52	

MSM: BYPASS CAPS

REF 1400-1499

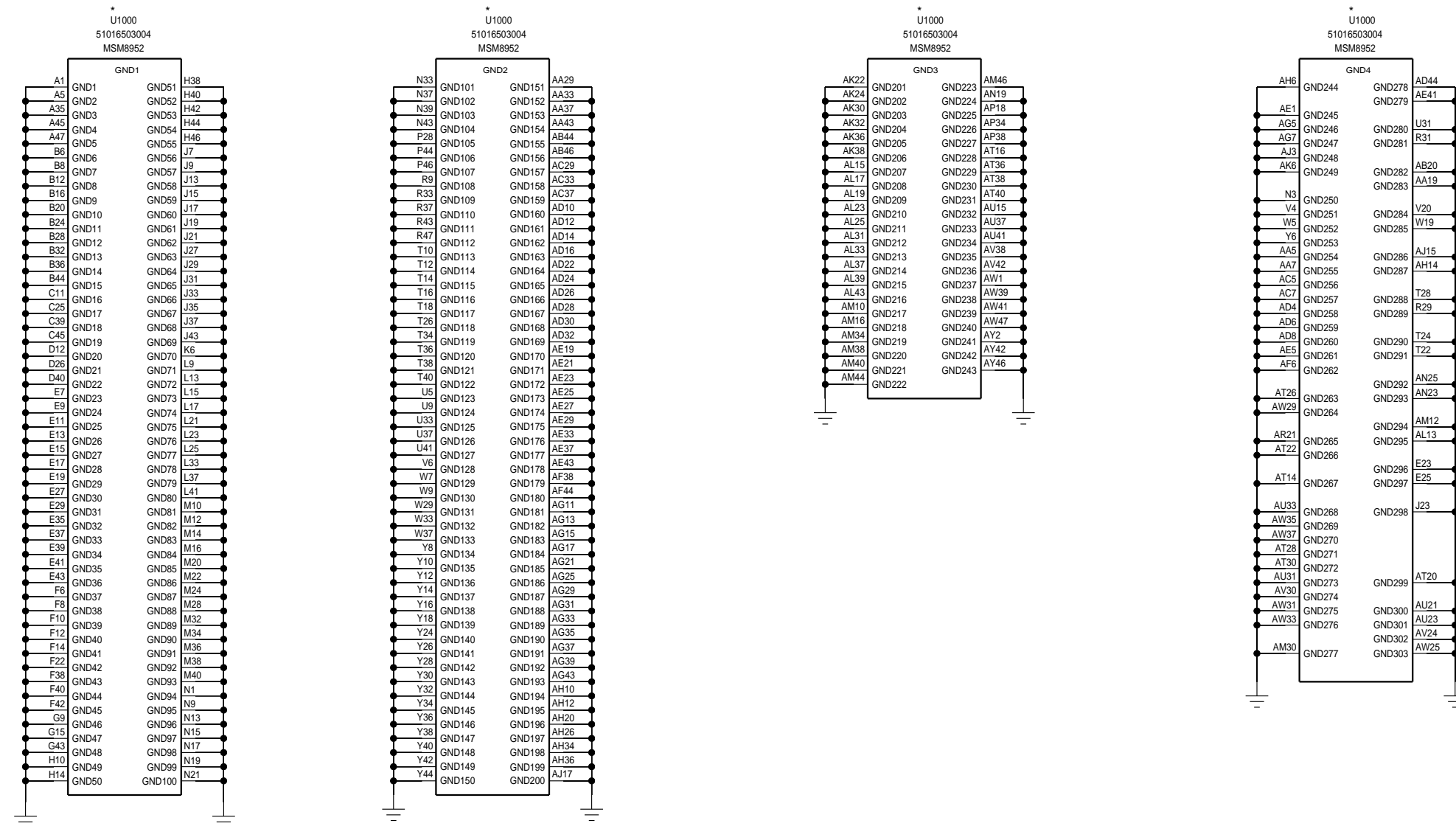


CAD NOTE:
REMOTE SENSE POINT SHOULD BE PLACED NEAR THE BULK CAPS



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Tue Feb 09 13:46:33 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 32 OF 52	

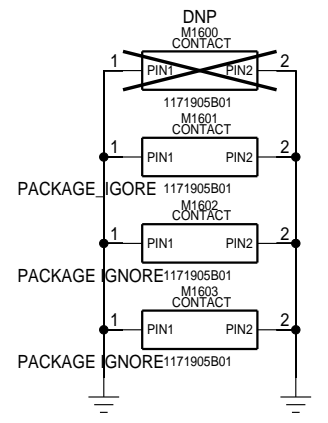
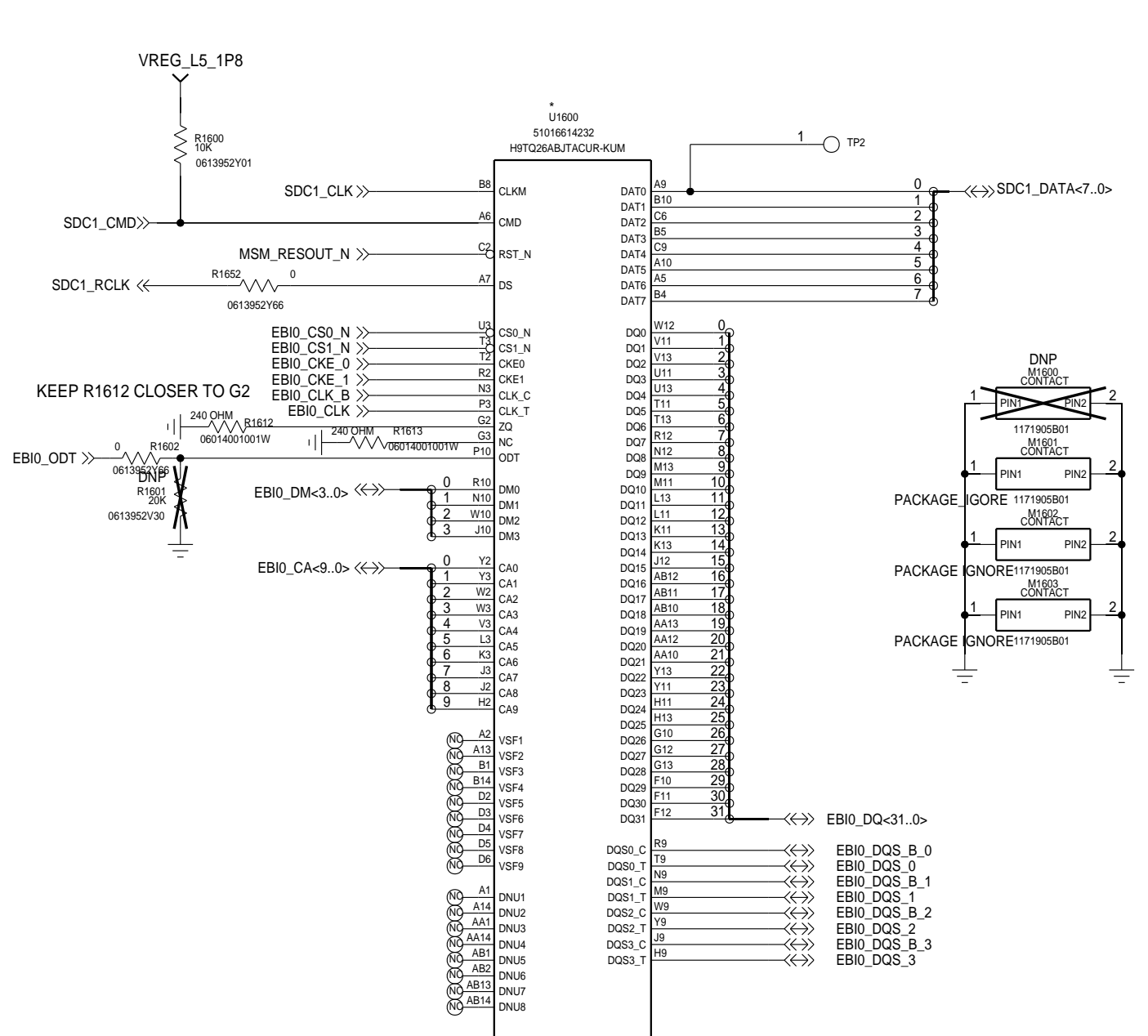
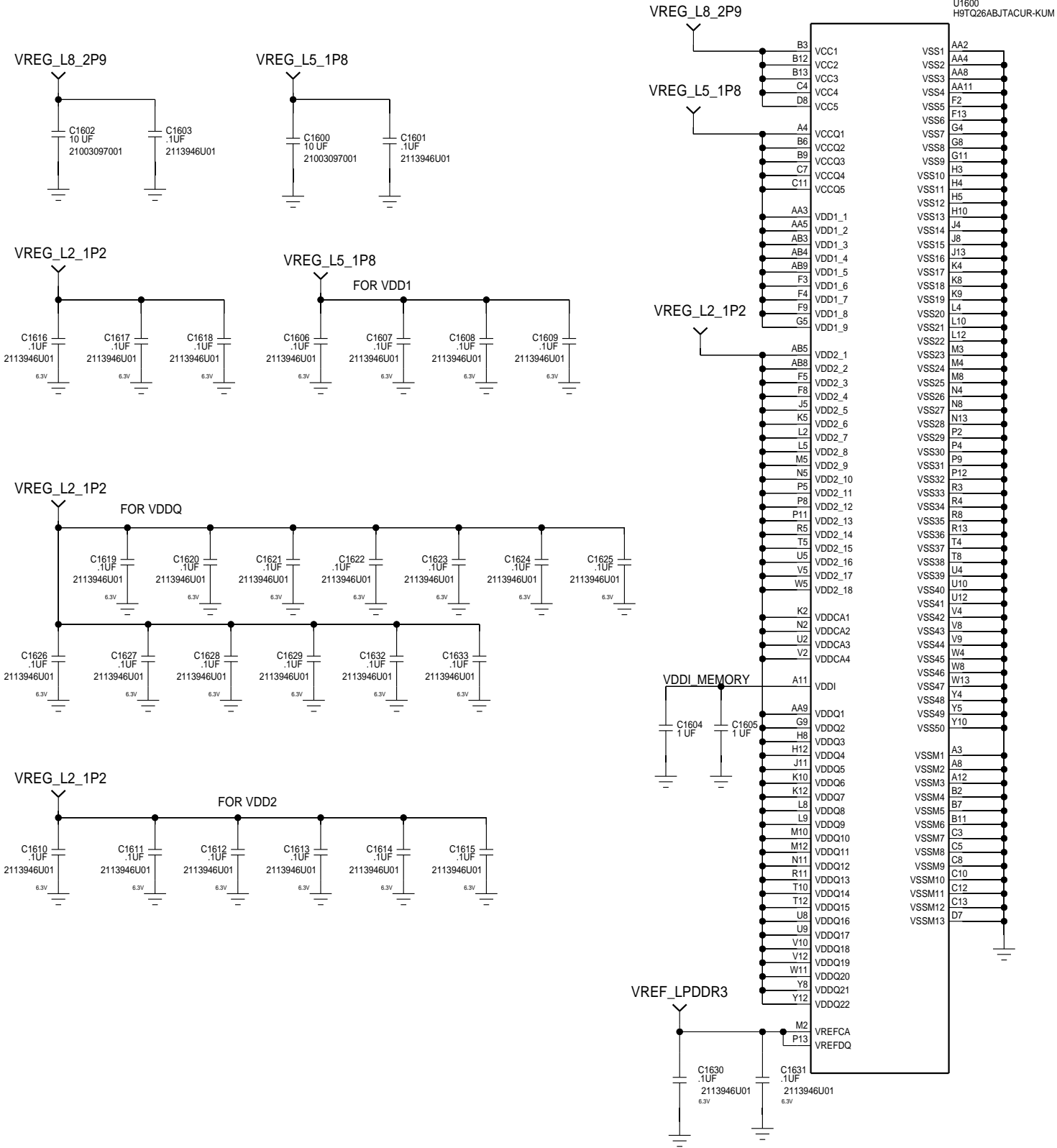
MSM: GROUND



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Tue Feb 09 13:46:37 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 33 OF 52	

MSM: MCP MEMORY

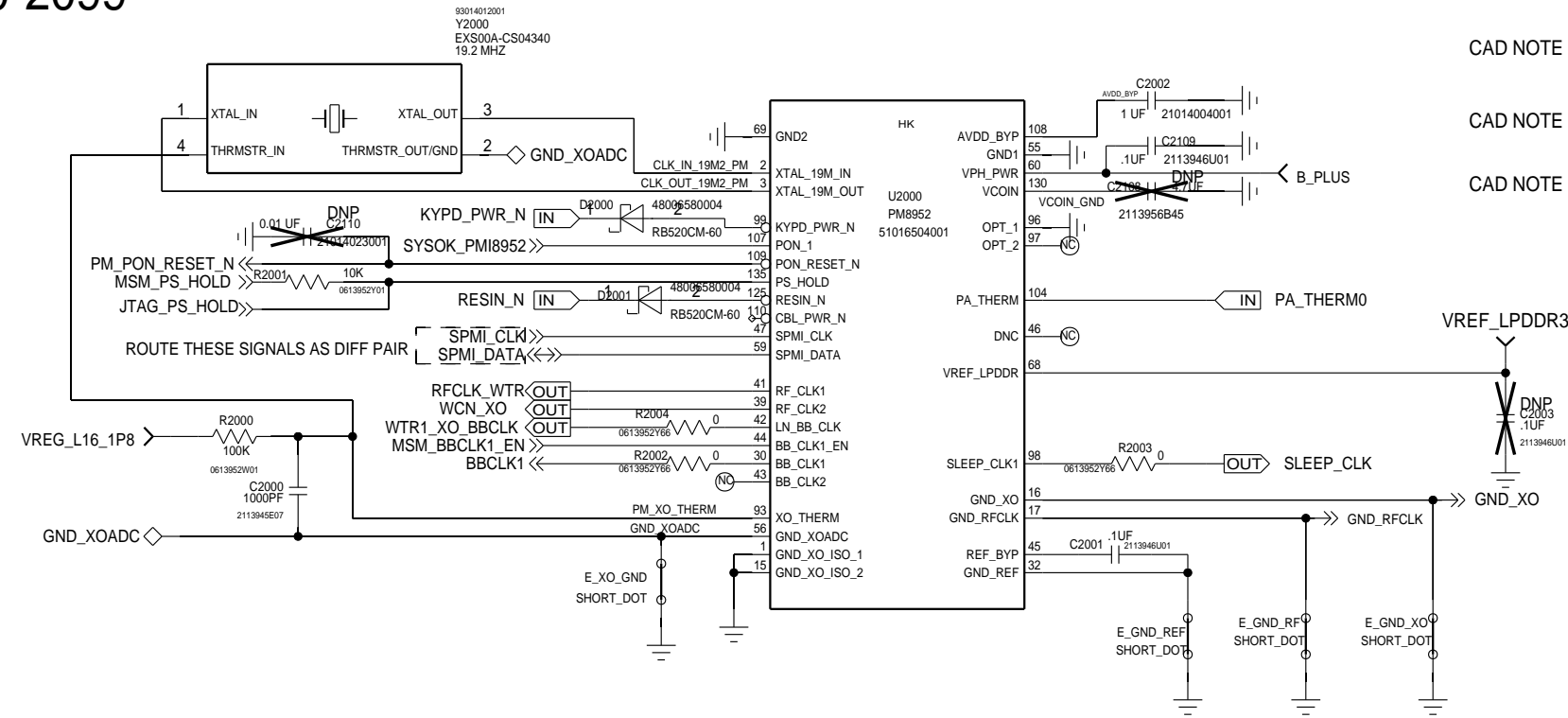
MCP: 8GB NAND, 8GBIT LPDDR3



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:32 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 34 OF 52	

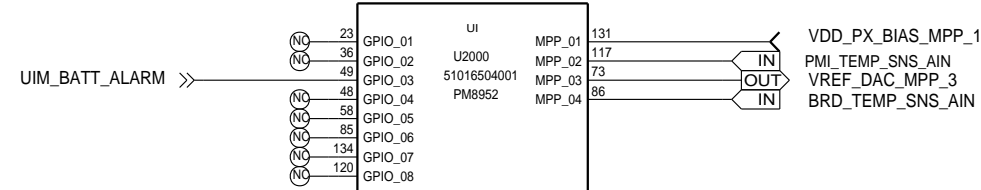
PM8952: HK/GHRG/LED/GPIO

REF: 2000-2099



- CAD NOTE 1: PLACE C2000 CLOSE TO Y5 AND CONNECT CAP GND THROUGH DEDICATED VIA TO MAIN GND PLANE
- CAD NOTE 2: CONNECT J3 (GND_RF) TO NEGATIVE TERMINAL OF VREG_RFCLK AND CONNECT TO THE MAIN GND USING DIRECT VIAS
- CAD NOTE 3: CONNECT J2 (GND_XO) TO NEGATIVE TERMINAL OF VREG_XO AND CONNECT TO THE MAIN GND USING DIRECT VIAS
- CAD NOTE 4: H3 MUST BE CONNECTED TO MAIN GND USING DEDICATED VIA

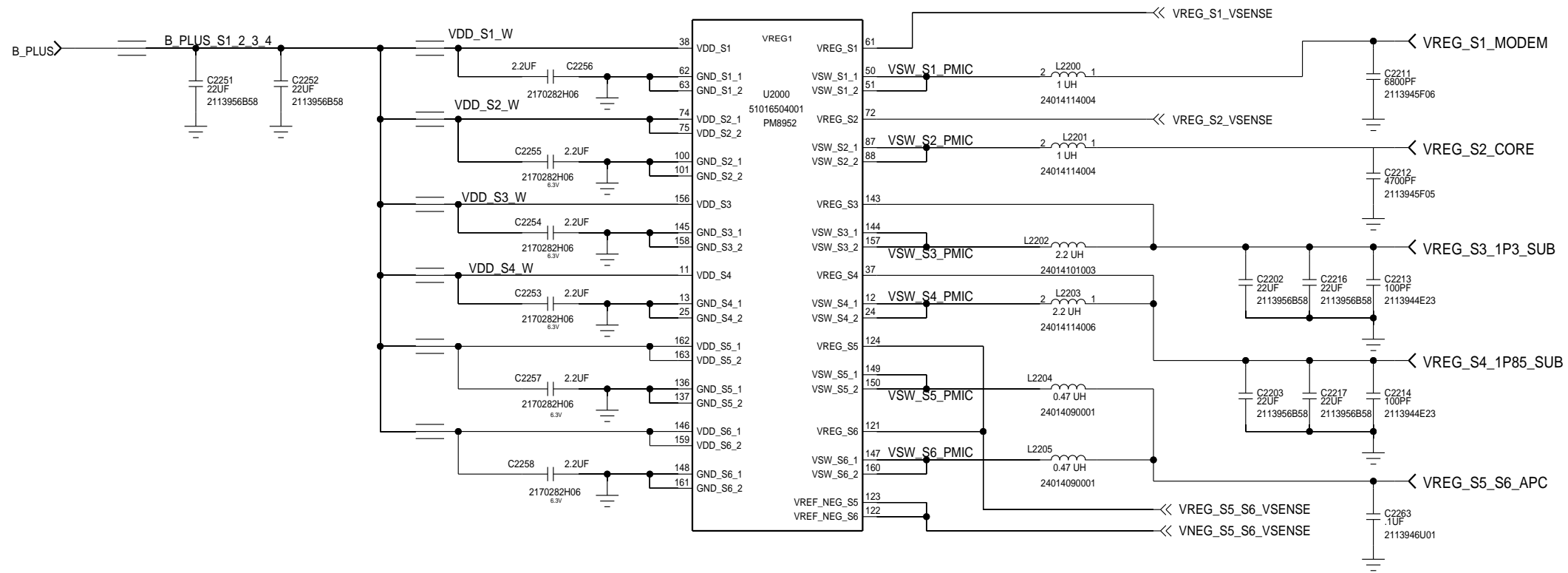
NOTE: CONNECT GND_REG AND REF_BYP TO C2001 ON TOP LAYER WITHOUT VIA



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:29 2016		ap_pmic	
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		B 84016530001_a.cpm	01
CAD FILE NAME:		PAGE 35 OF 52	

PM8952: SMPS

REF: 2200-2299

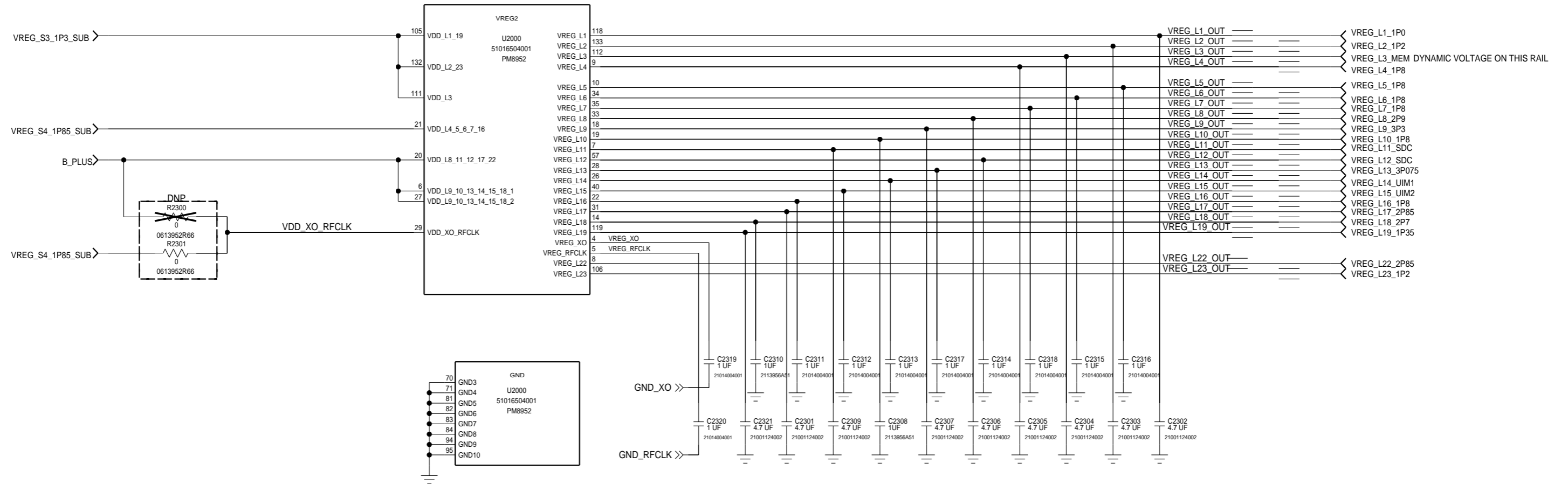


NOTE: PLACE INPUT CAPS CLOSE TO RESPECTIVE VIN PINS
EACH CAP GND SHOULD BE STAR-ROUTED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:34 2016		ap_pmic	
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 84016530001_a.cpm	REV 01
		CAD FILE NAME:	
		PAGE 36 OF 52	

PM8952: VREGS

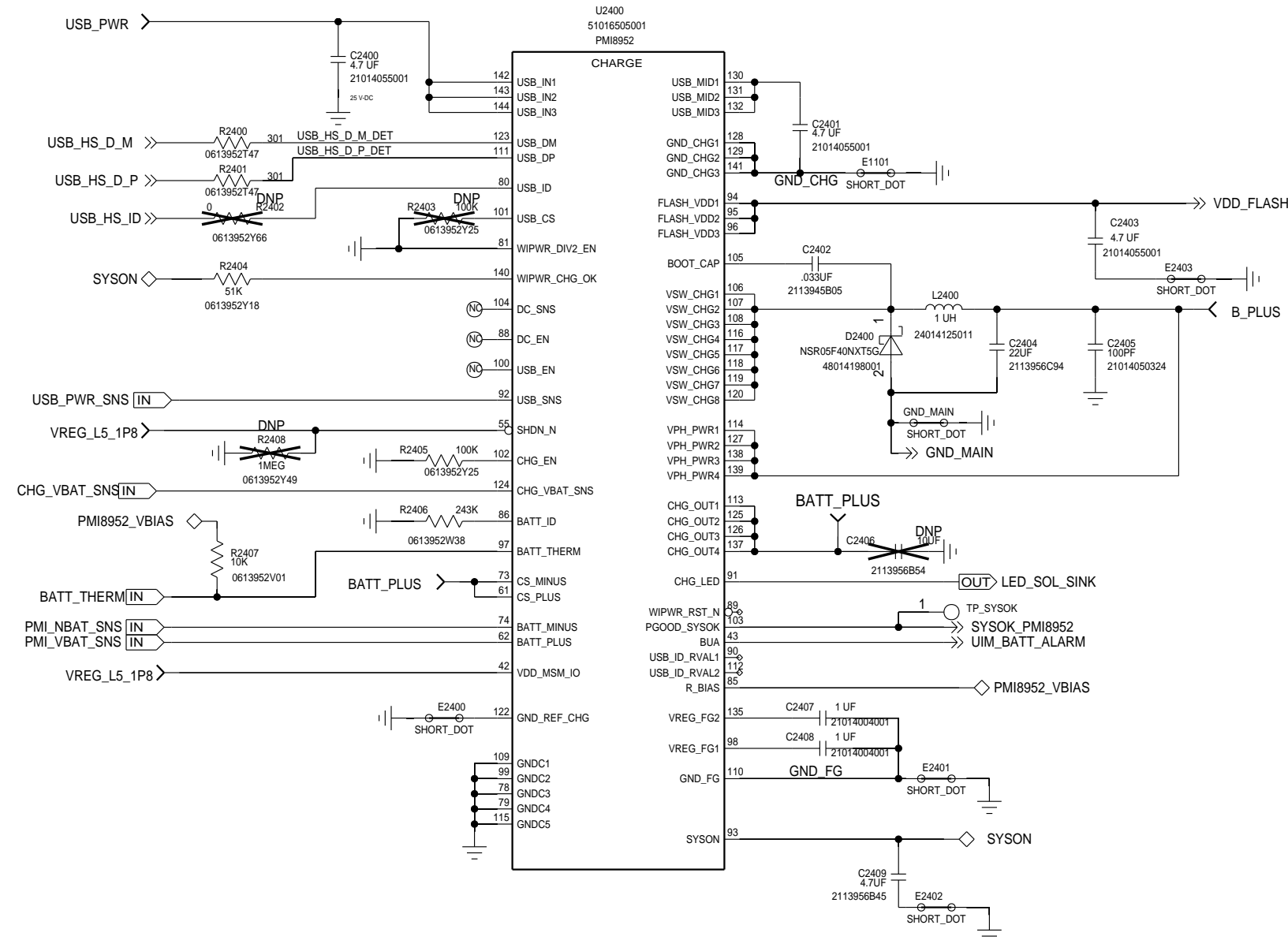
REF: 2300-2399



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:35 2016		ap_pmic	
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		CAD FILE NAME:	PAGE 37 OF 52

PMI8952: CHARGING

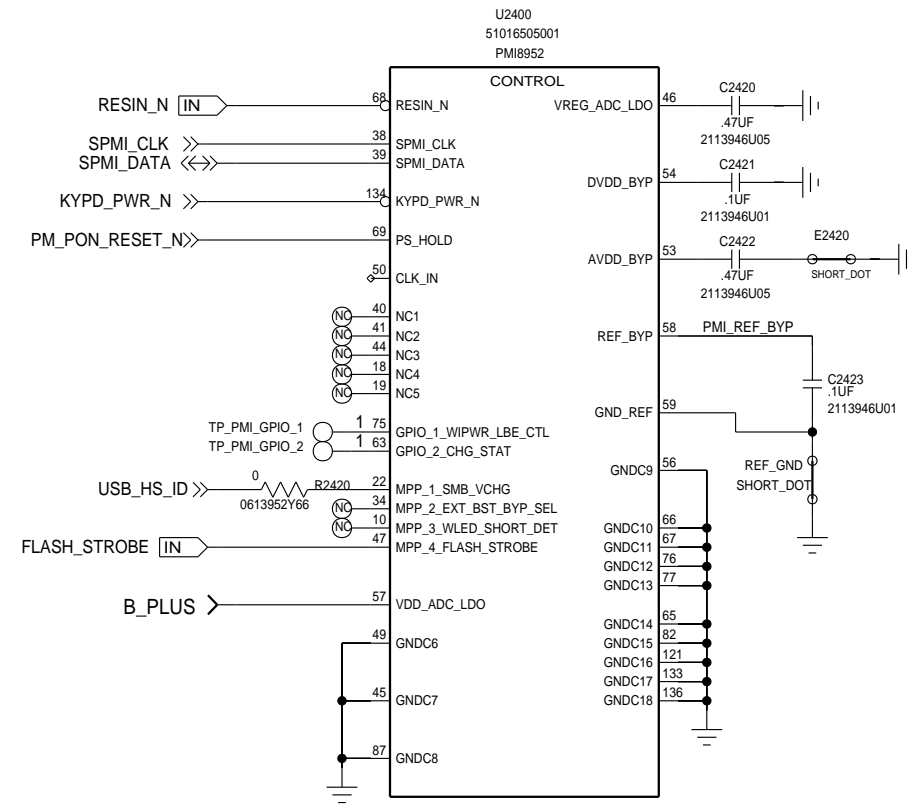
REF: 2400-2419



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:27 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 38 OF 52	

PMI8952: IO_REF

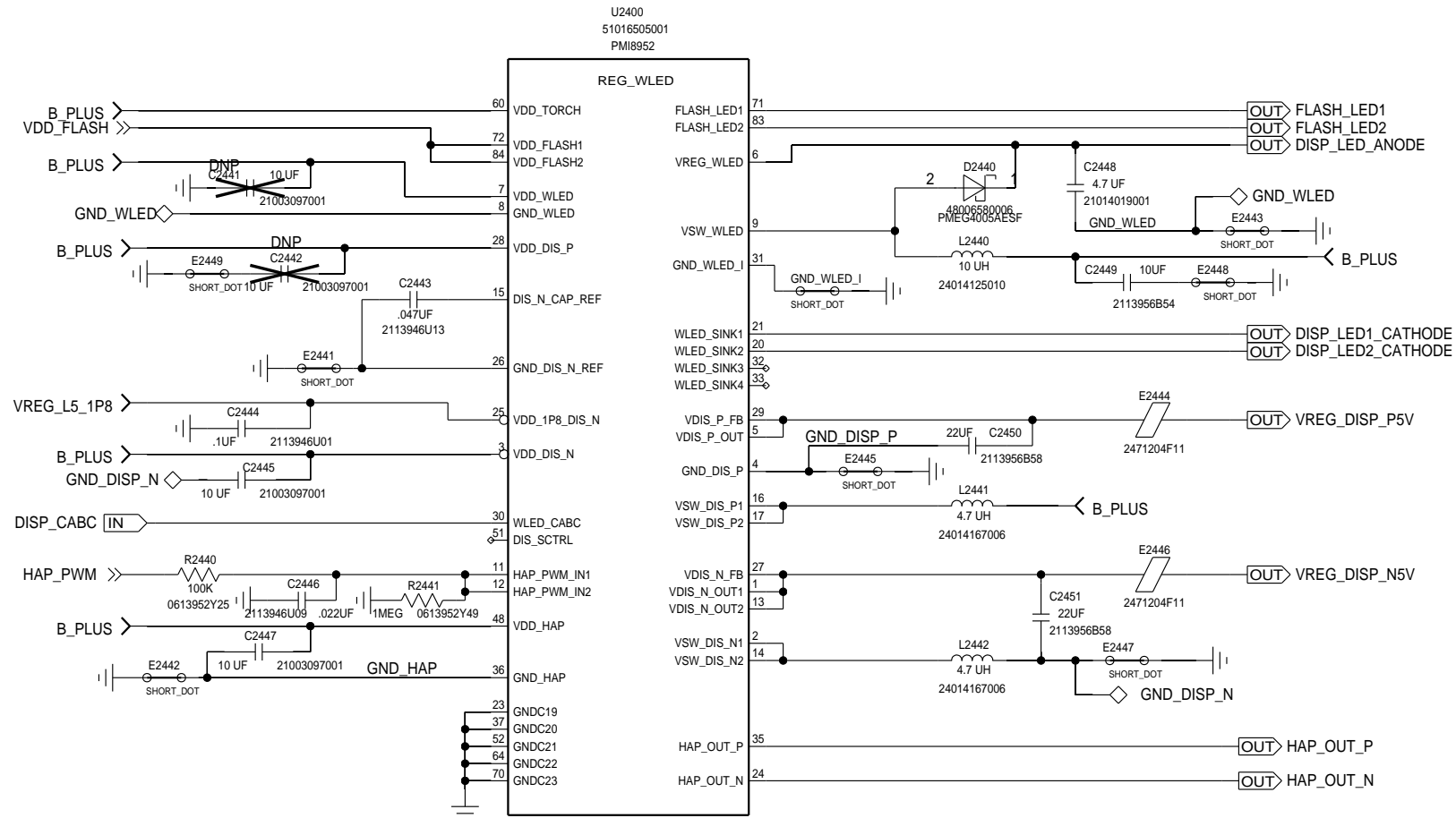
REF: 2420-2439



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Tue Feb 09 13:46:28 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 39 OF 52	

PMI8952: REG_WLED

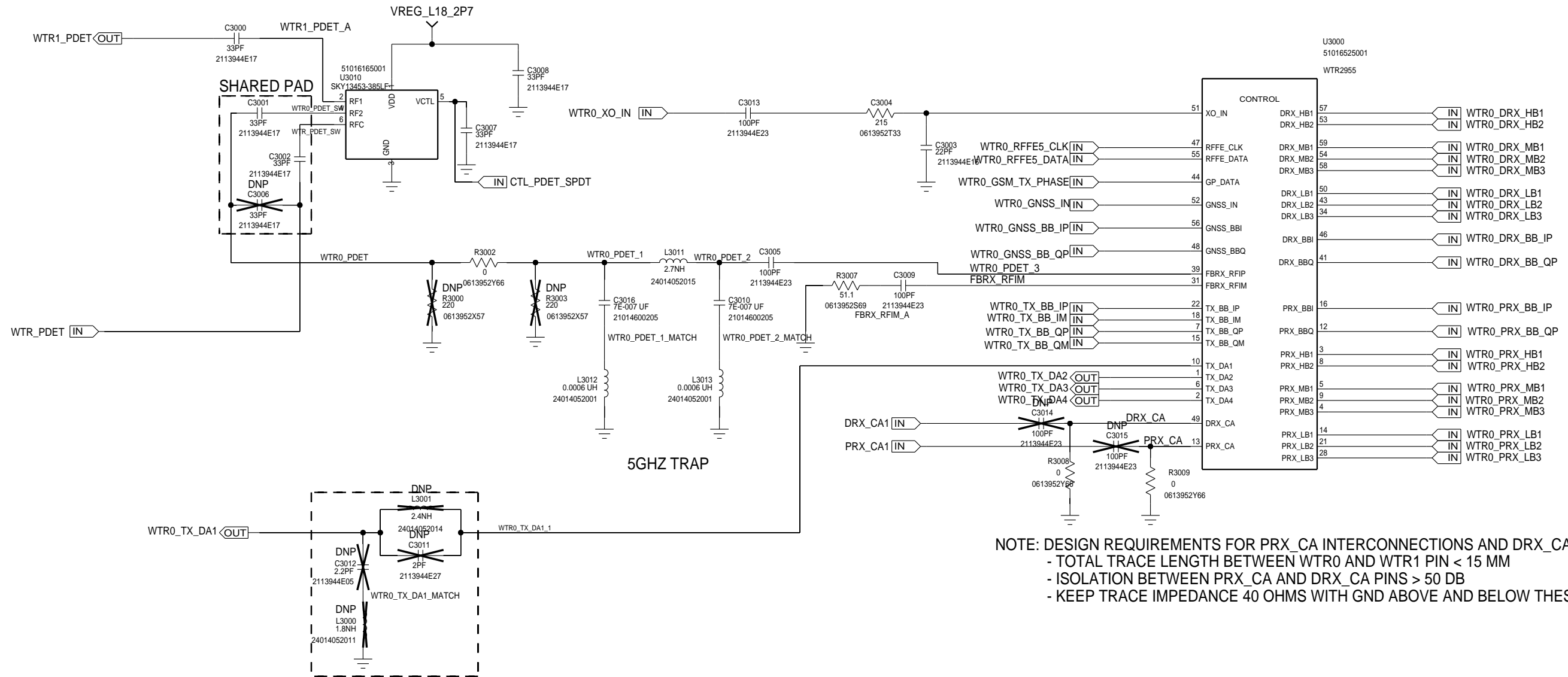
REF: 2440-2459



APPROVALS		MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MMI Tue Feb 09 13:46:30 2016		ap_pmic	
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WTR2955 BB RF

REF 3000-3049



NOTE: THIS LC NOTCH IS REQUIRED TO MEET 4FMOD SPECS IN B13 BAND.

NOTE: DESIGN REQUIREMENTS FOR PRX_CA INTERCONNECTIONS AND DRX_CA INTERCONNECTIONS:
 - TOTAL TRACE LENGTH BETWEEN WTR0 AND WTR1 PIN < 15 MM
 - ISOLATION BETWEEN PRX_CA AND DRX_CA PINS > 50 DB
 - KEEP TRACE IMPEDANCE 40 OHMS WITH GND ABOVE AND BELOW THESE TRACES

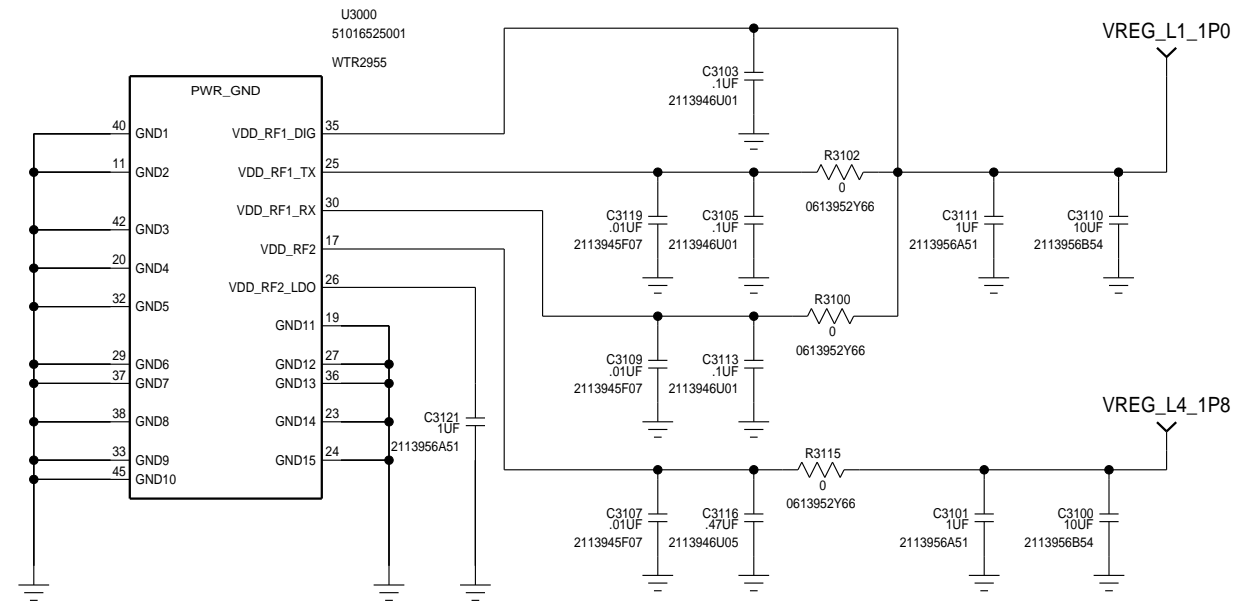
BASED ON 80-NP237-43 REV. A

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		B 84016530001_a.cpm	01
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WTR2955 POWER

REF 3100-3149



NOTE: C3119, C3109, C3107 ARE PRIORITY 1 AND SHOULD BE PLACED CLOSEST TO VDD PINS.

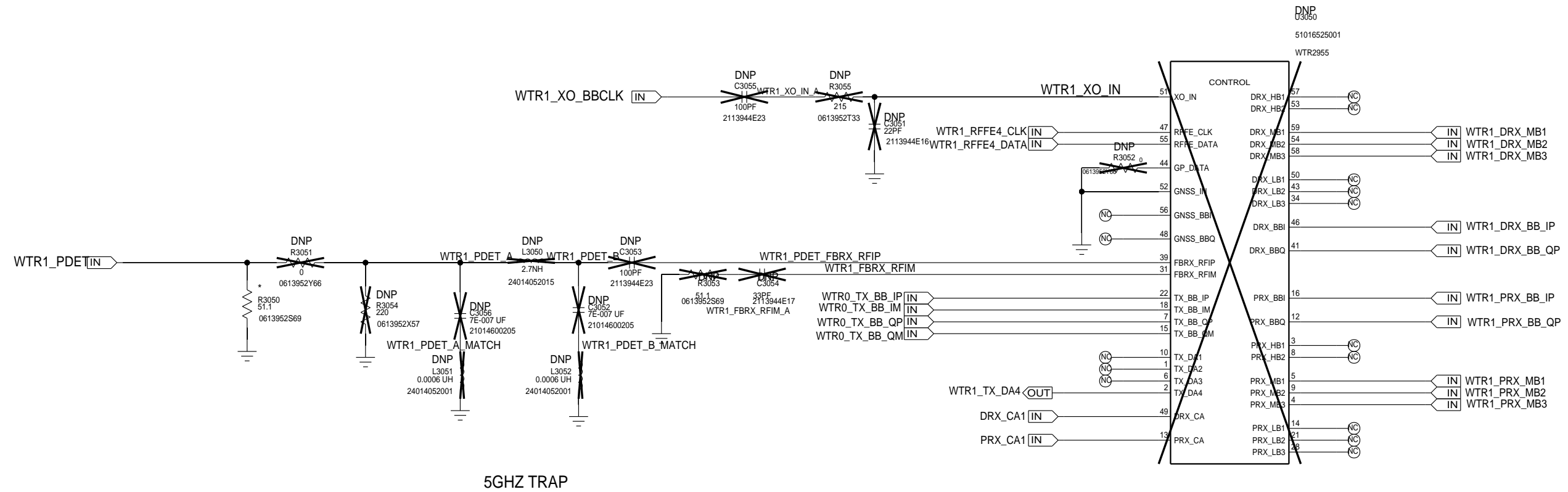
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BASED ON 80-NL713-44 REV. A

CA_WTR2955 BB RF

REF 3050-3099

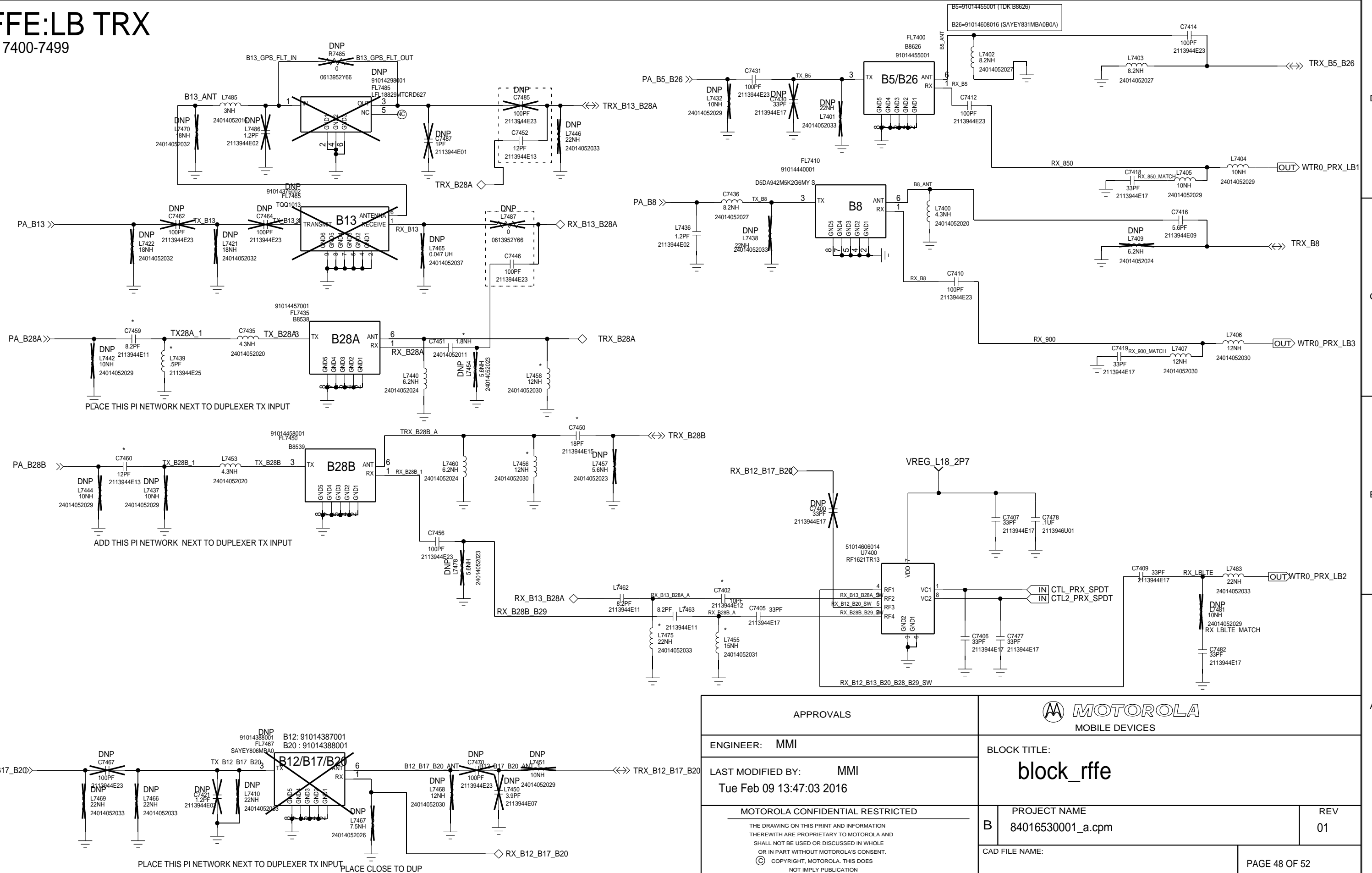


NOTE: DESIGN REQUIREMENTS FOR PRX_CA INTERCONNECTIONS AND DRX_CA INTERCONNECTIONS:
 - TOTAL TRACE LENGTH BETWEEN WTR0 AND WTR1 PIN < 15 MM
 - ISOLATION BETWEEN PRX_CA AND DRX_CA PINS > 50 DB
 - KEEP TRACE IMPEDANCE 40 OHMS WITH GND ABOVE AND BELOW THESE TRACES

APPROVALS		MOTOROLA MOBILE DEVICES	
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RFFE:LB TRX

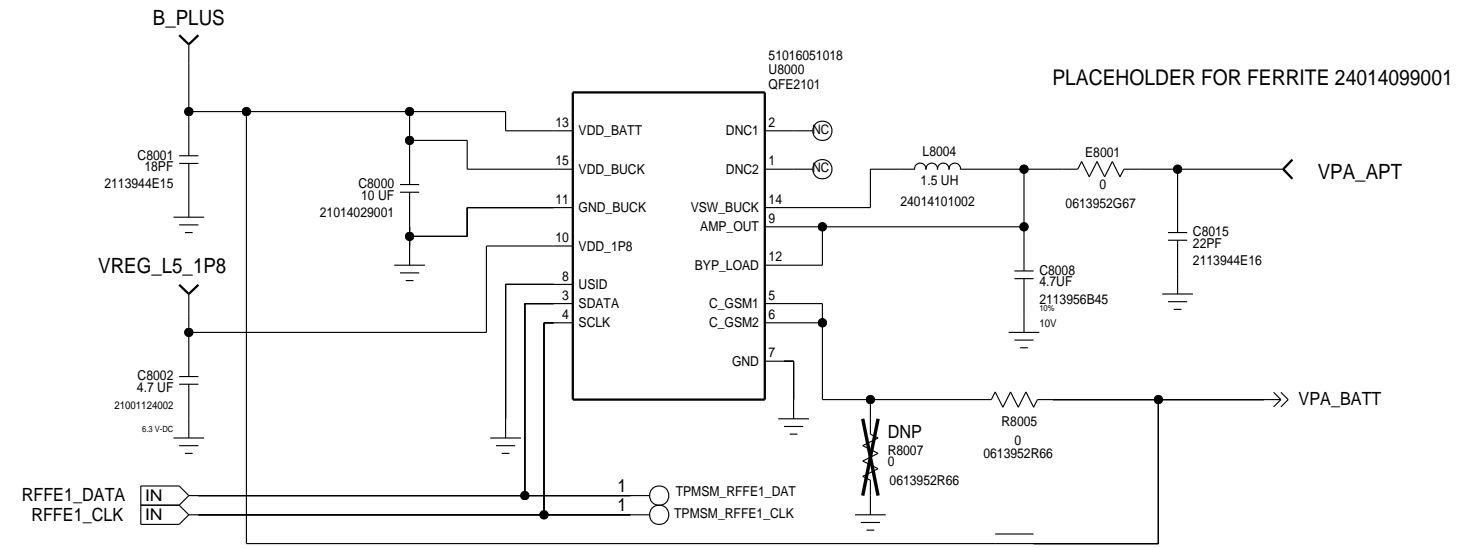
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PROJECT NAME B 84016530001_a.cpm	REV 01
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RFFE:QFE2101
REF 7400-7499



BYPASS OPTION FOR VPA_VBATT
DNP APPROPRIATELY

GND_BUCK: DO NOT VIA DIRECTLY TO GROUND PLANE. KEEP ISOLATED ON SURFACE LAYER;
ROUTE TO INPUT CAPACITOR GROUND PAD, AND THEN ONTO A VIA THAT CONNECTS TO THE GROUND
PLANE AT LEAST 1 MM BEYOND THE CAPACITOR.

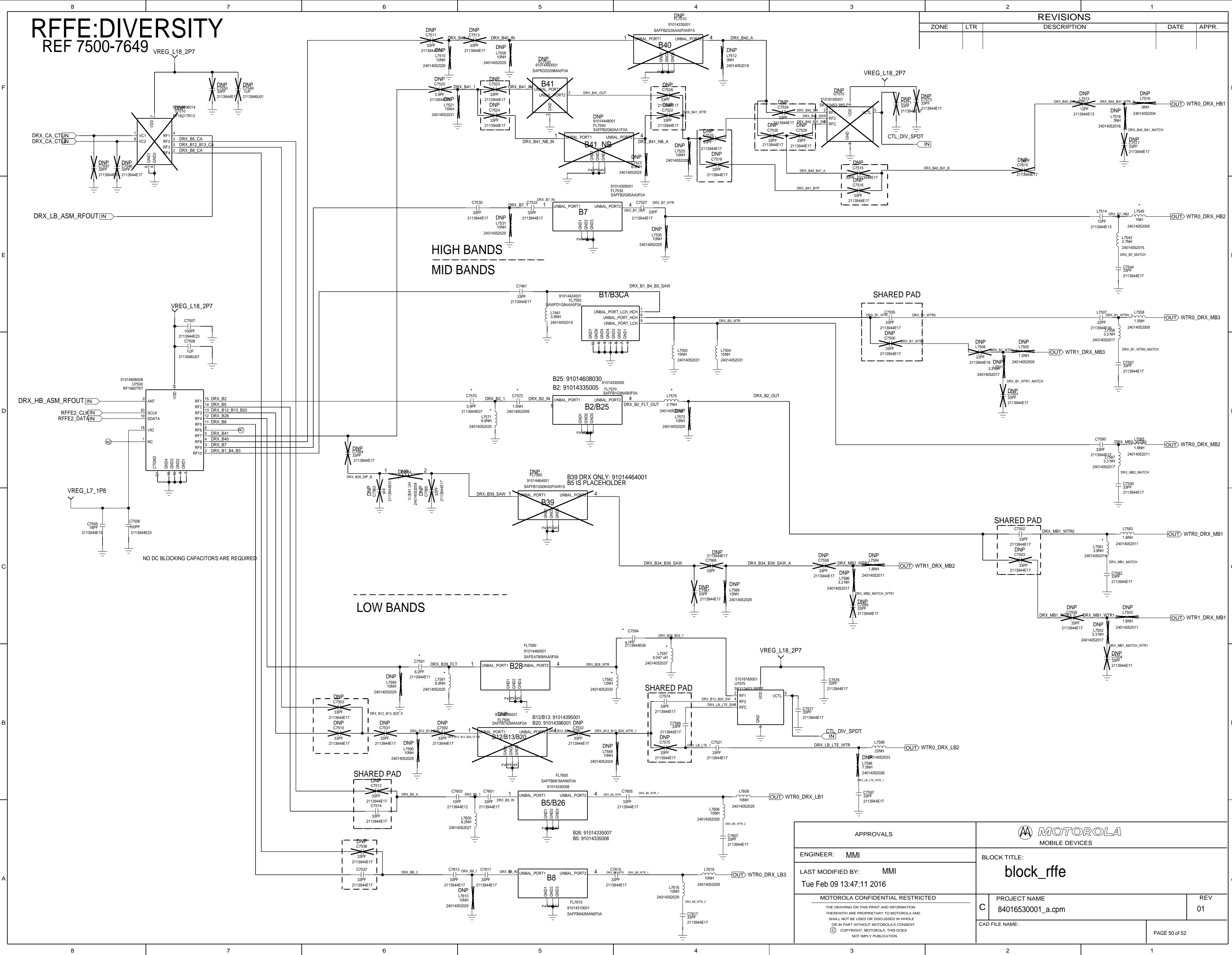
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RFFE: DIVERSITY

REF 7500-7649

REVISIONS

ZONE	LTR	DESCRIPTION	DATE	APPR.



NO DC BLOCKING CAPACITORS ARE REQUIRED

LOW BANDS

HIGH BANDS MID BANDS

SHARED PAD

SHARED PAD

SHARED PAD

APPROVALS

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 Tue Feb 09 13:47:11 2016



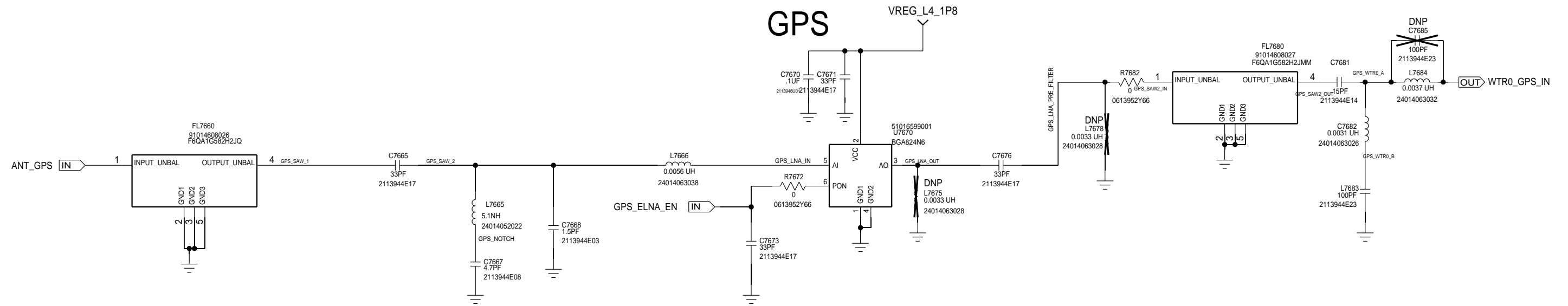
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RFFE: GPS

REF 7650-7699

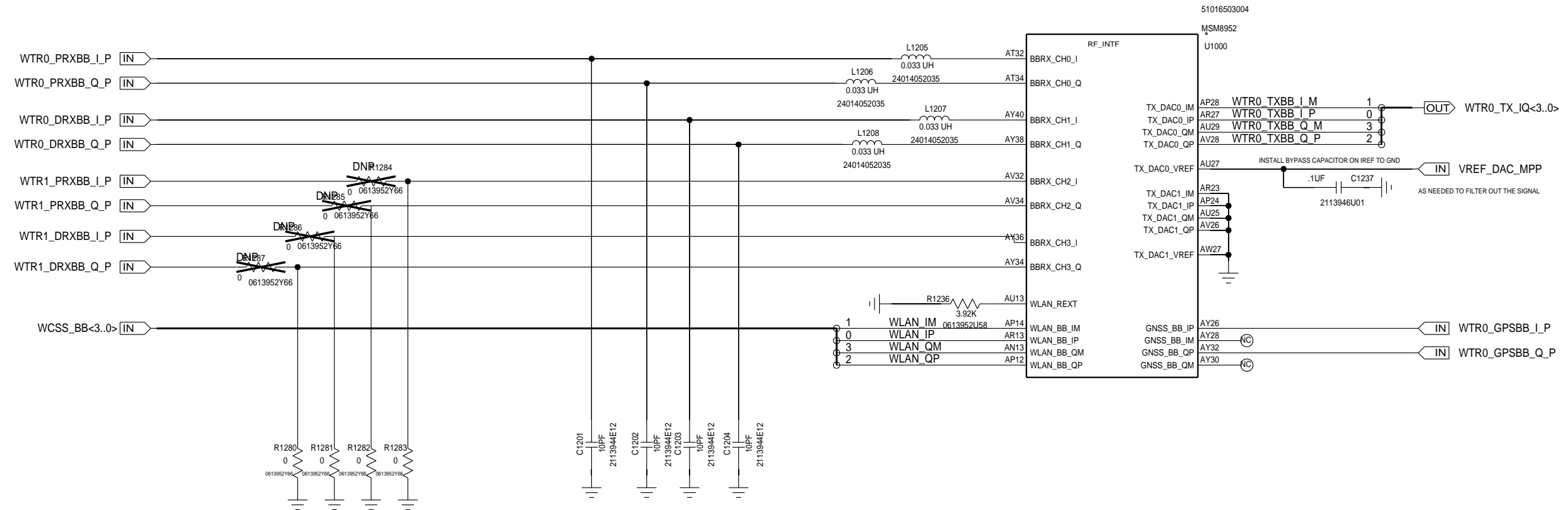


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Wed Feb 19 09:45:58 2016

MSM: RF INTERFACE

REF 1200-1299



APPROVALS		MOTOROLA MOBILE DEVICES	
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