

# Copperfield

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

D

D

C

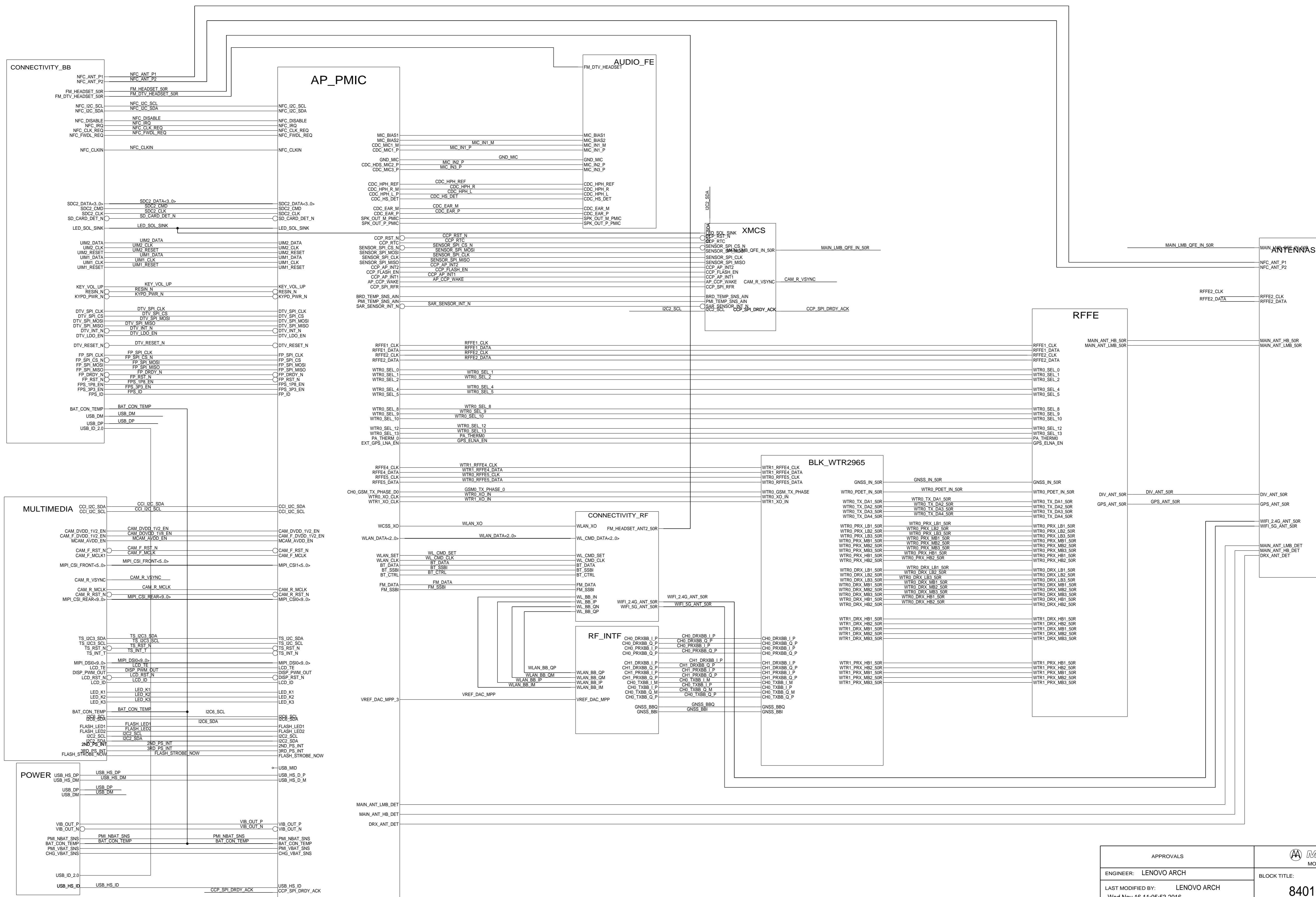
C

B

B

A

A



APPROVALS		 MOBILE DEVICES	
ENGINEER: LENOVO ARCH	BLOCK TITLE:		
LAST MODIFIED BY: LENOVO ARCH Wed Nov 16 11:05:53 2016		84016642001_11_1122	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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ME/SHIELDS

REF

# JUDO\_REFRESH REFERENCE DESIGNATOR RANGES BY BLOCK

1000 - 1399 :AP\_PMIC

1400 -1449 :PWOER

1450 -1499 :AUDIO\_FE

1500-1999:CONNECTIVITY\_BB

2000-2499:MULTIMEDIA

2500-2999:XMCS


5000-5499:RF\_INTF

5500-5999:BLK\_WTR2965

6000-7999:B\_RFFE

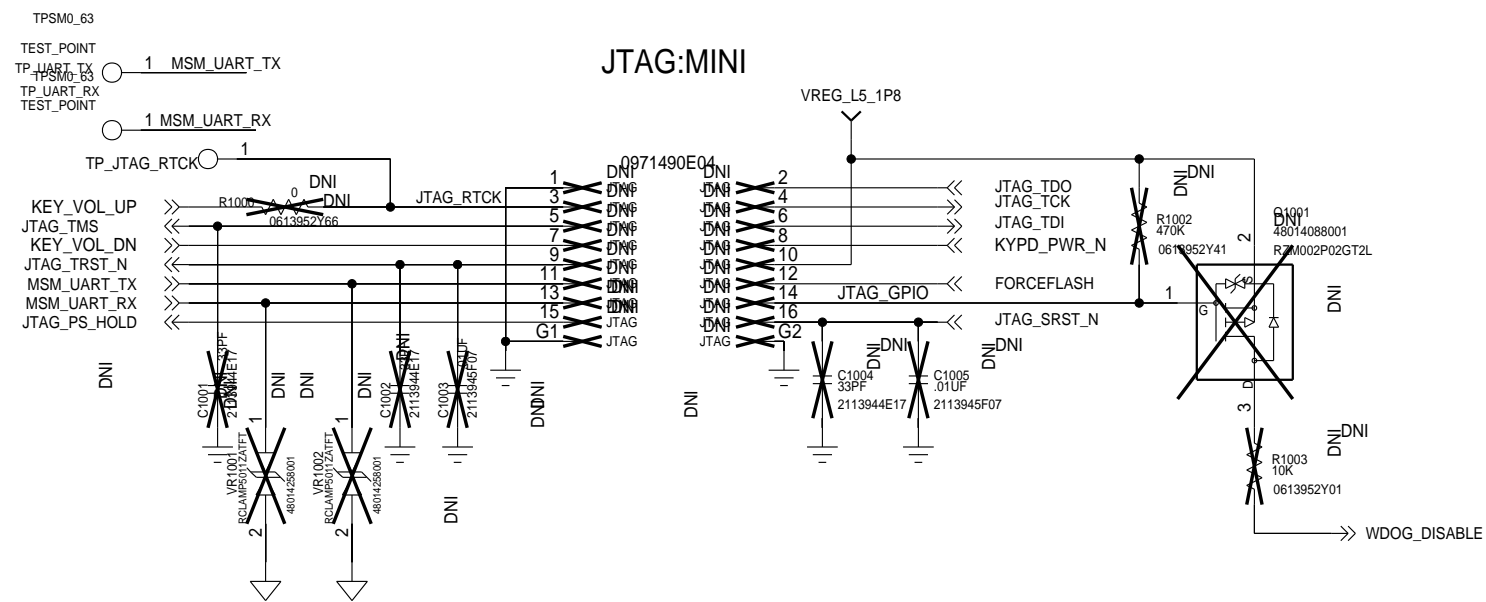
8000-8499:ANTENNAS

8500-8999:CONNECTIVITY\_RF

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: <b>84016642001_11_1122</b>	
LAST MODIFIED BY: Fri Mar 25 13:57:25 2016		PROJECT NAME B 84016642001_11_1122.cpm	
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# 1000:MSM: DEBUG

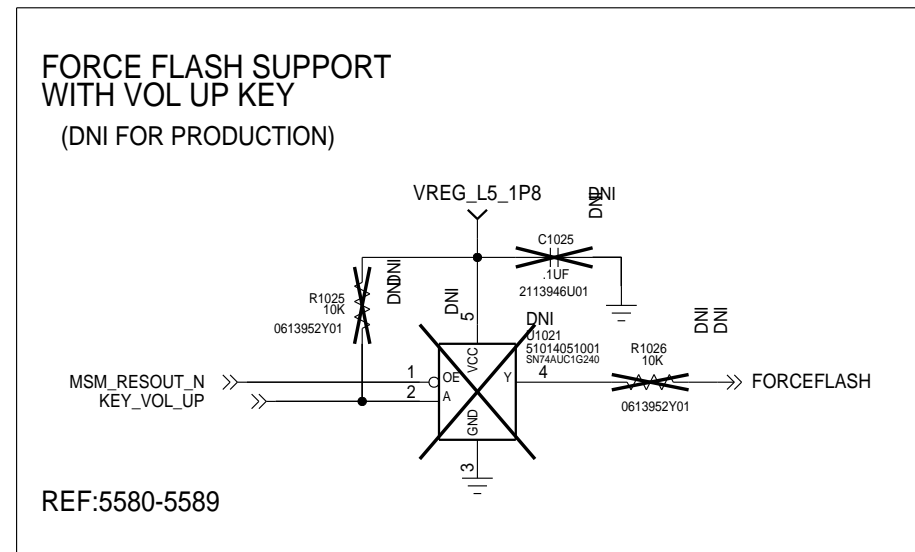
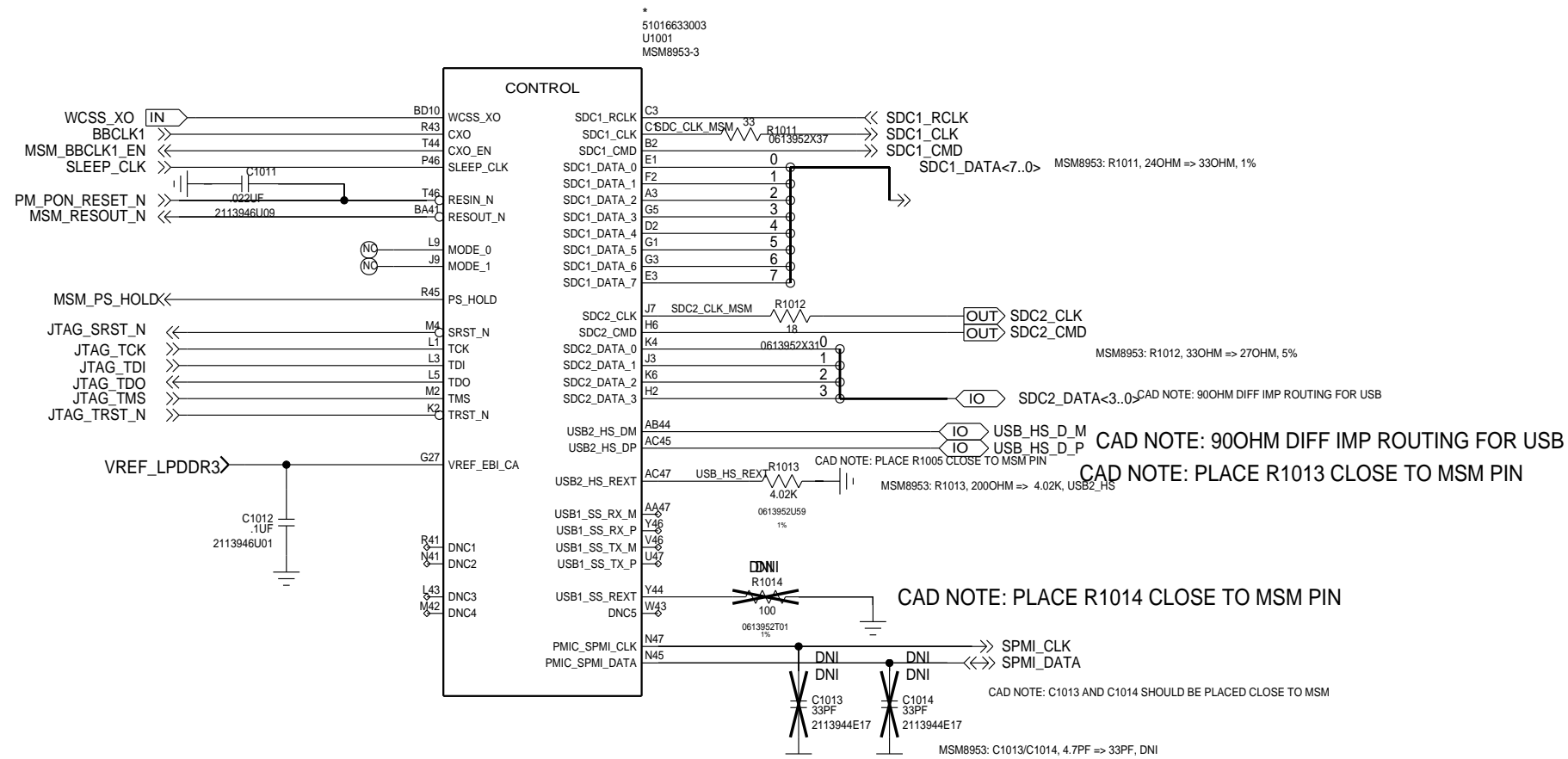
REF 1000-1009



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:44:06 2016		<b>ap_pmic</b>	
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		<b>B</b> 84016642001_11_1122.cpm	01
CAD FILE NAME:		PAGE 3 OF 56	

# 1010:MSM: CTRL

REF 1010-1019

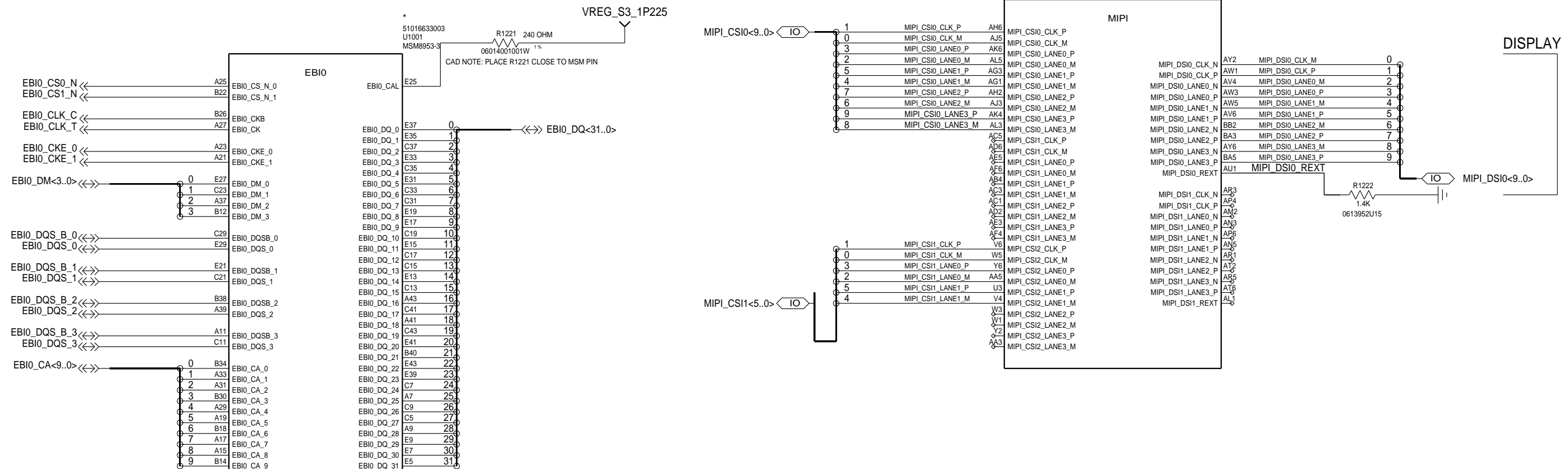


REF:5580-5589

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
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LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:37 2016		<b>ap_pmic</b>	
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		B 84016642001_11_1122.cpm	01
CAD FILE NAME:		PAGE 4 OF 56	

# 1020:MSM: MIPI/DSI/CSI/EBIO

REF 1020-1029



\*MIPI\_CSI CAN BE CHANGED FOR MODS  
MSM8953: CSI1 => MODS, CSI2=> FFCAM

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		ap_pmic	
Wed Nov 23 09:44:03 2016			
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	
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		REV	
		01	
		PAGE 5 OF 56	

# 1030:MSM: GPIO (0-133)

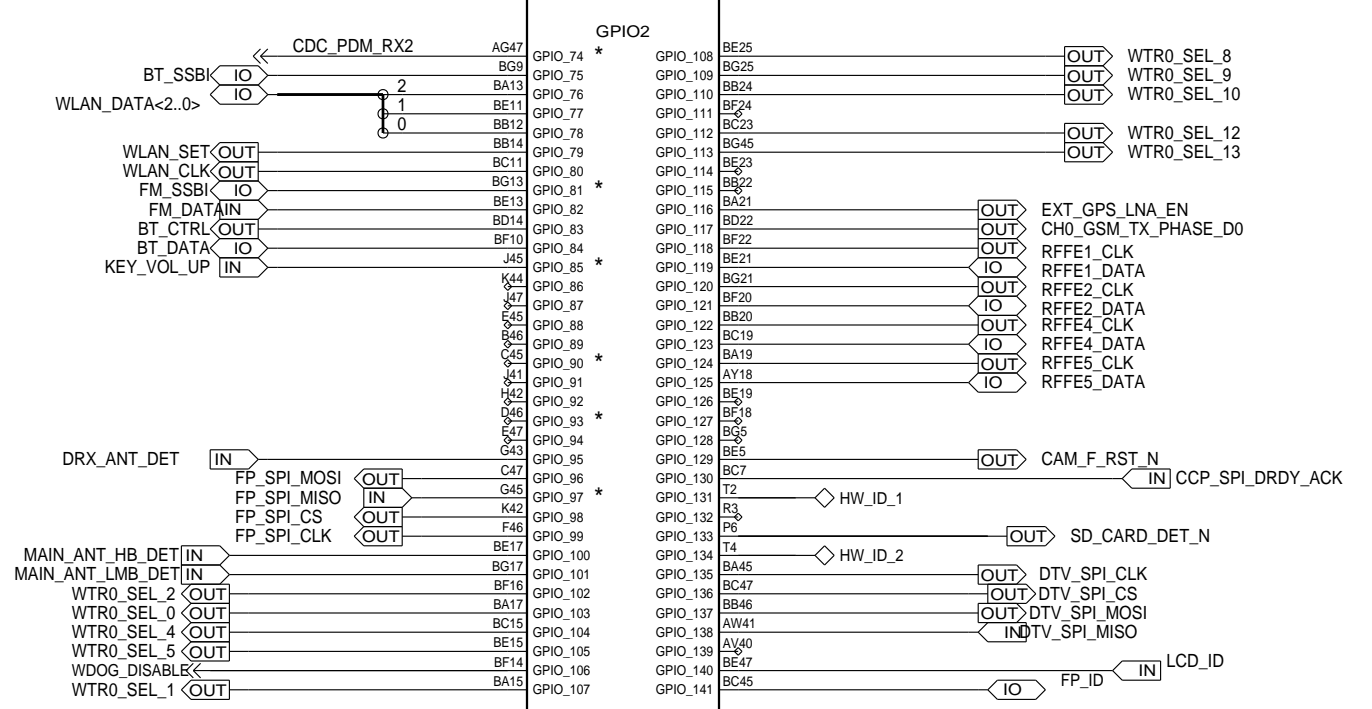
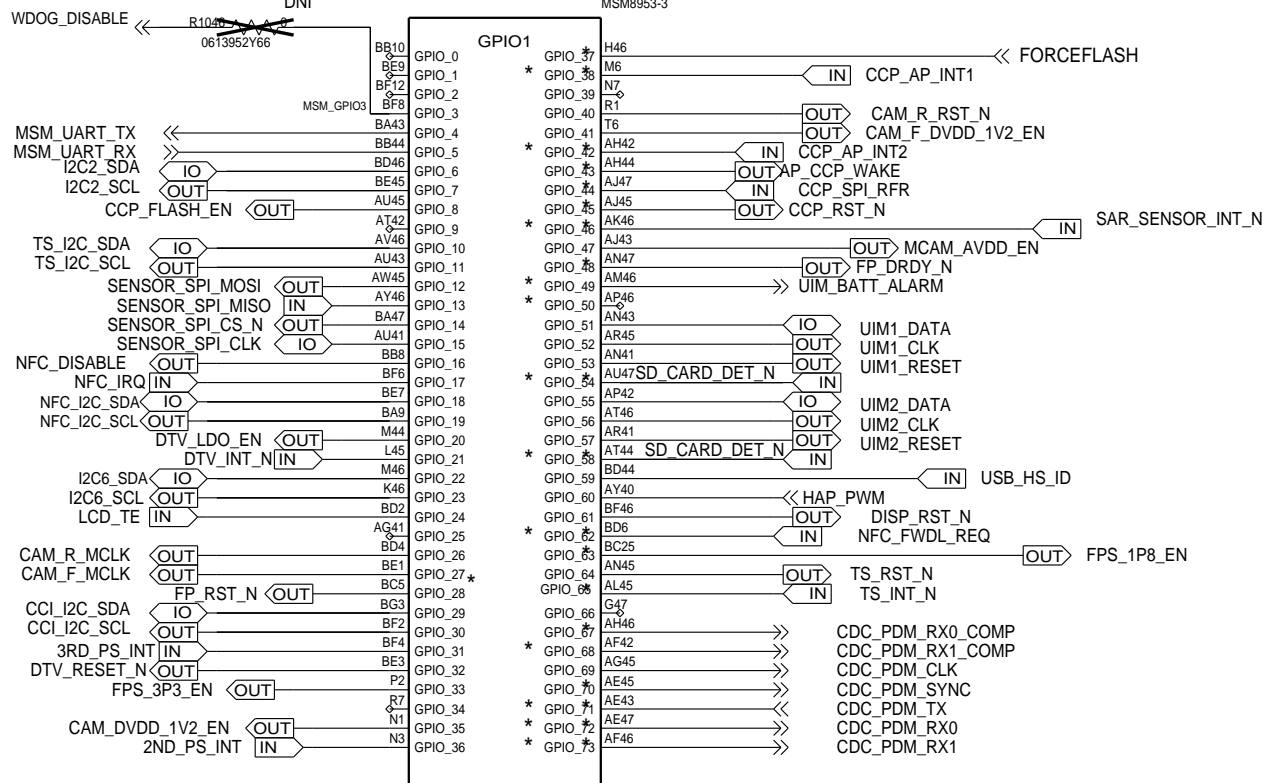
REF 1030-1049

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

NOTE: RESERVE GPIO\_3 FOR WDOG\_DISABLE FUNCTION. DO NOT HAVE A PULL-UP ON THIS GPIO FOR BETTER SW DEBUG CAPABILITY.

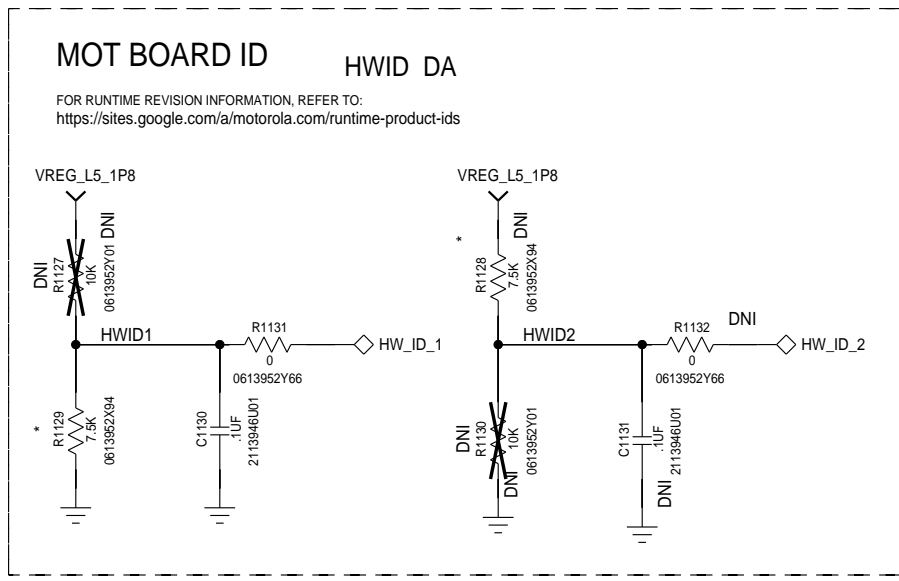
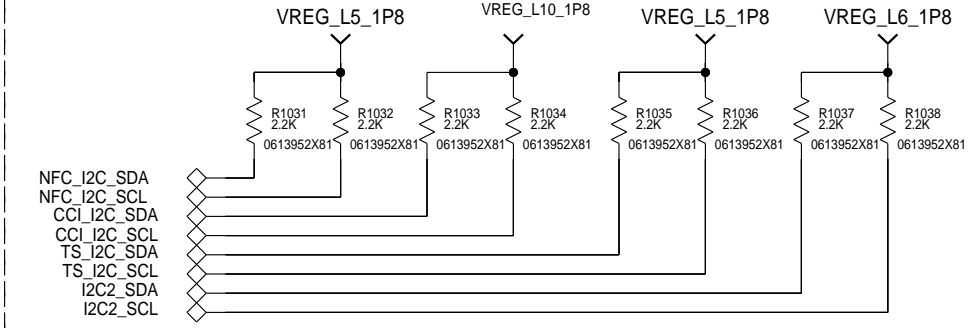
51016633003  
U1001  
MSM8953-3

51016633003  
U1001  
MSM8953-3



WAITING FOR GPIO ASSIGNMENT  
NEED WAKABLE

### I2C PULL-UP RESISTORS



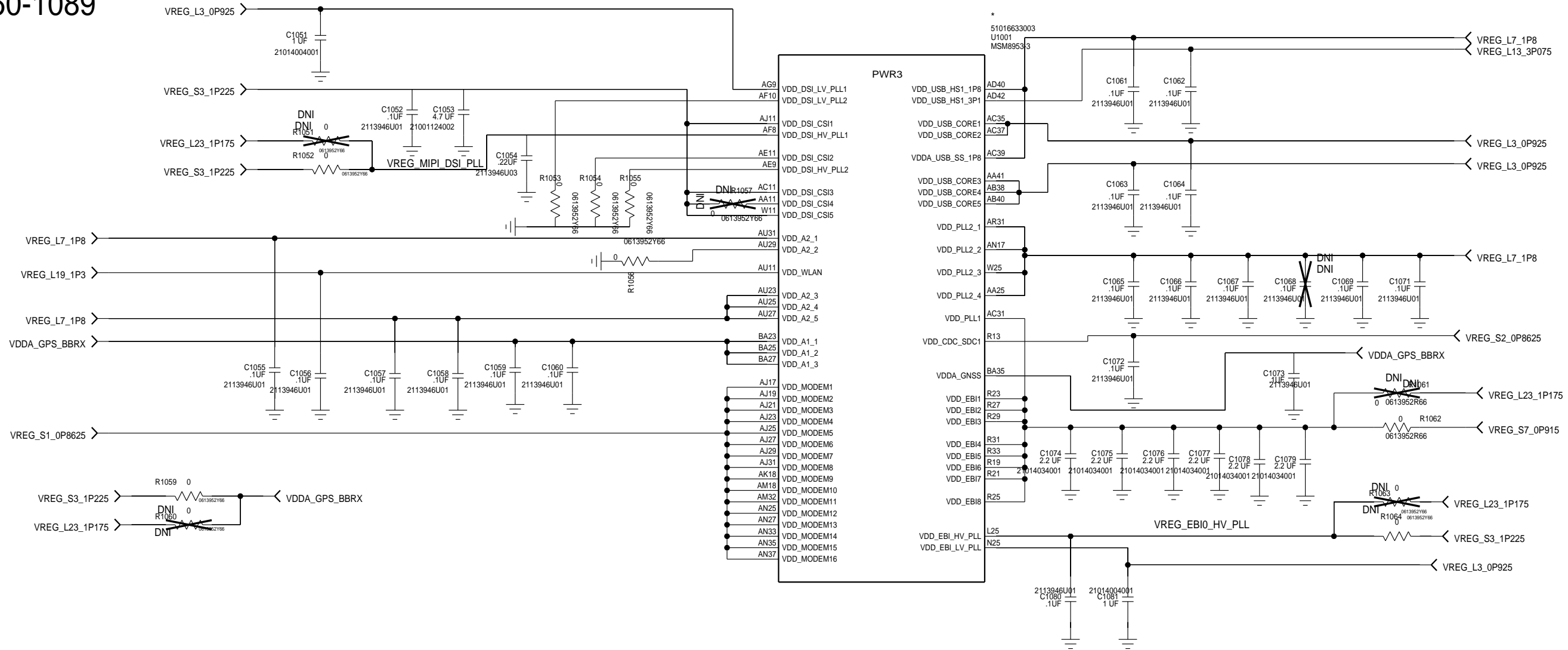
APPROVALS	
ENGINEER:	
LAST MODIFIED BY:	FAN021
Wed Nov 23 09:44:12 2016	
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<b>MOTOROLA</b> MOBILE DEVICES	
BLOCK TITLE: <b>ap_pmic</b>	
PROJECT NAME 84016642001_11_1122.cpm	REV 01
CAD FILE NAME:	
PAGE 6 OF 56	

# 1050:MSM: PWR1

REF 1050-1089

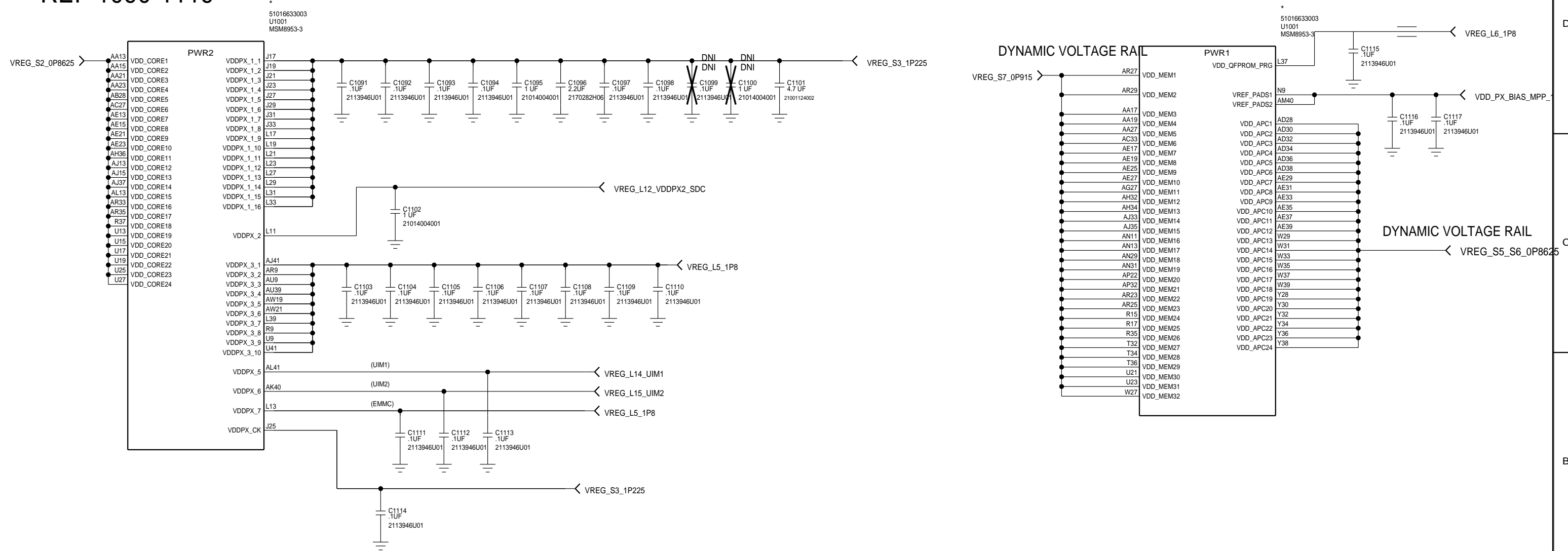
CAD NOTE: PLACE ONE DECAP NEAR PINS V5, V6 AND THE OTHER DECAP NEAR PIN R5



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:44:00 2016		ap_pmic	
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		B 84016642001_11_1122.cpm	01
		CAD FILE NAME:	
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# 1090:MSM: PWR2

## REF 1090-1119

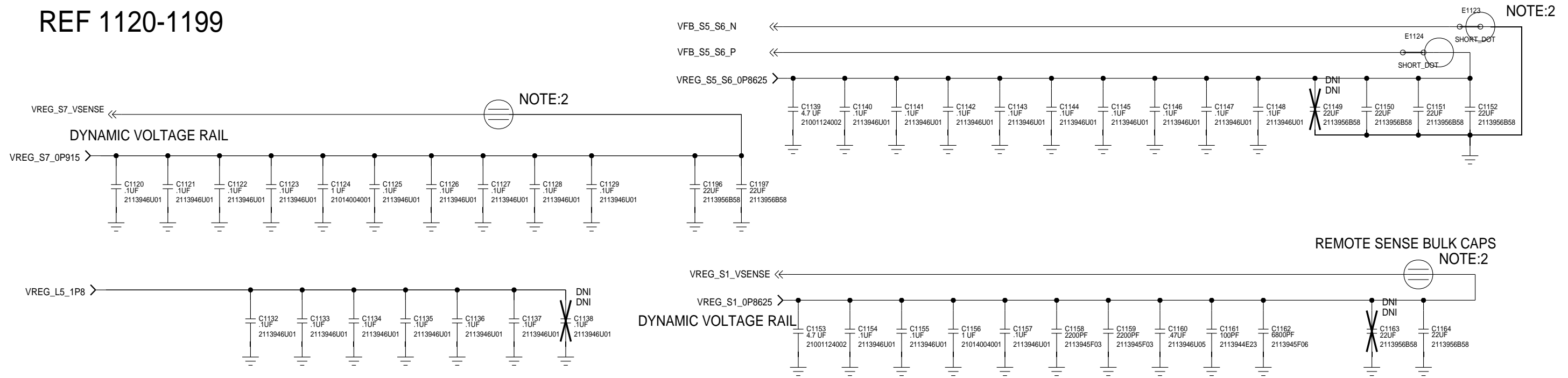


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:44:15 2016		ap_pmic	
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		CAD FILE NAME:	PAGE 8 OF 56

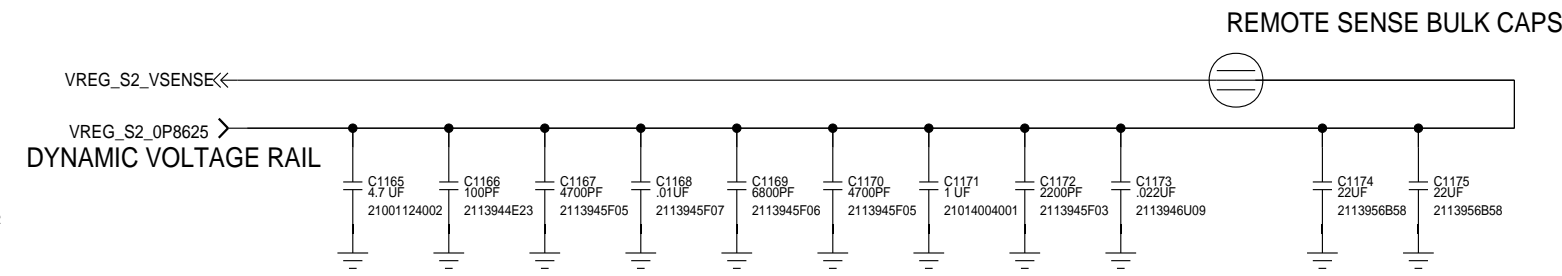
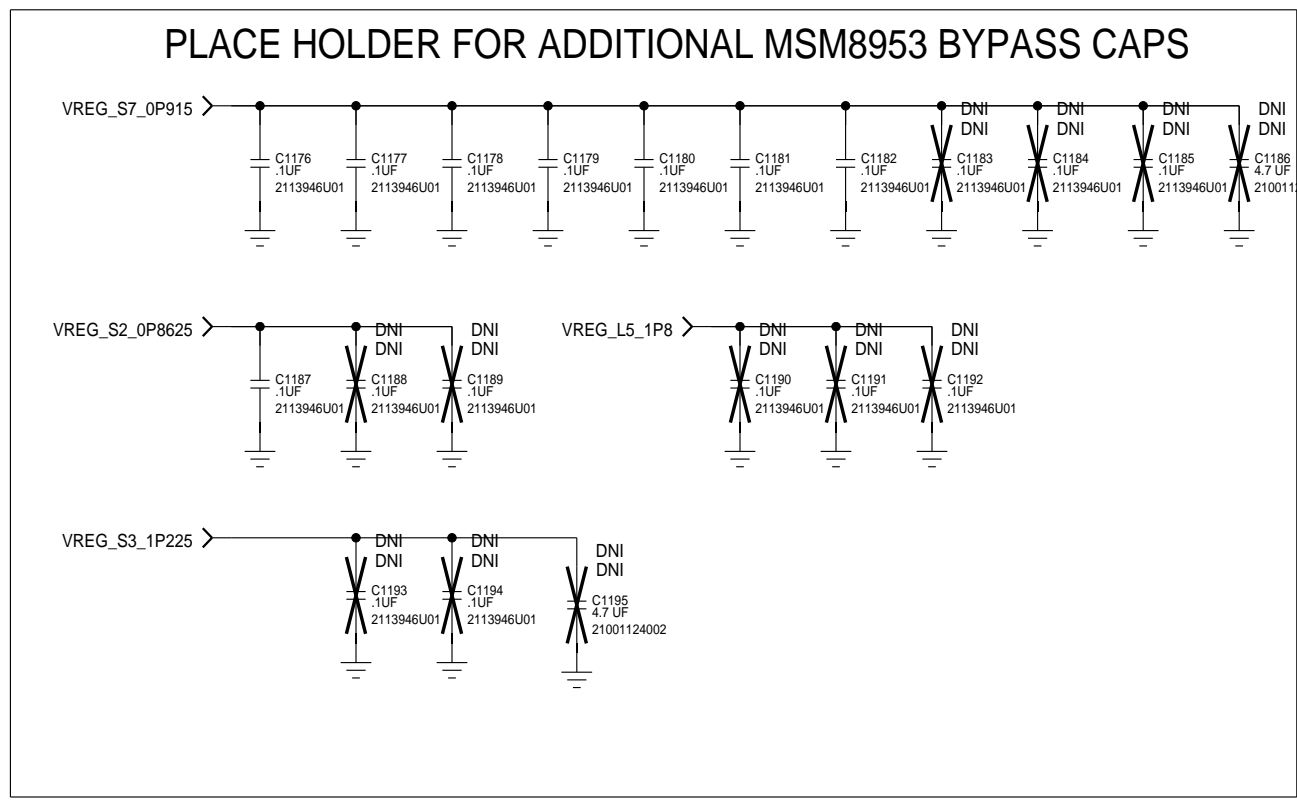


# 1120:MSM: BYPASS CAPS

## REF 1120-1199

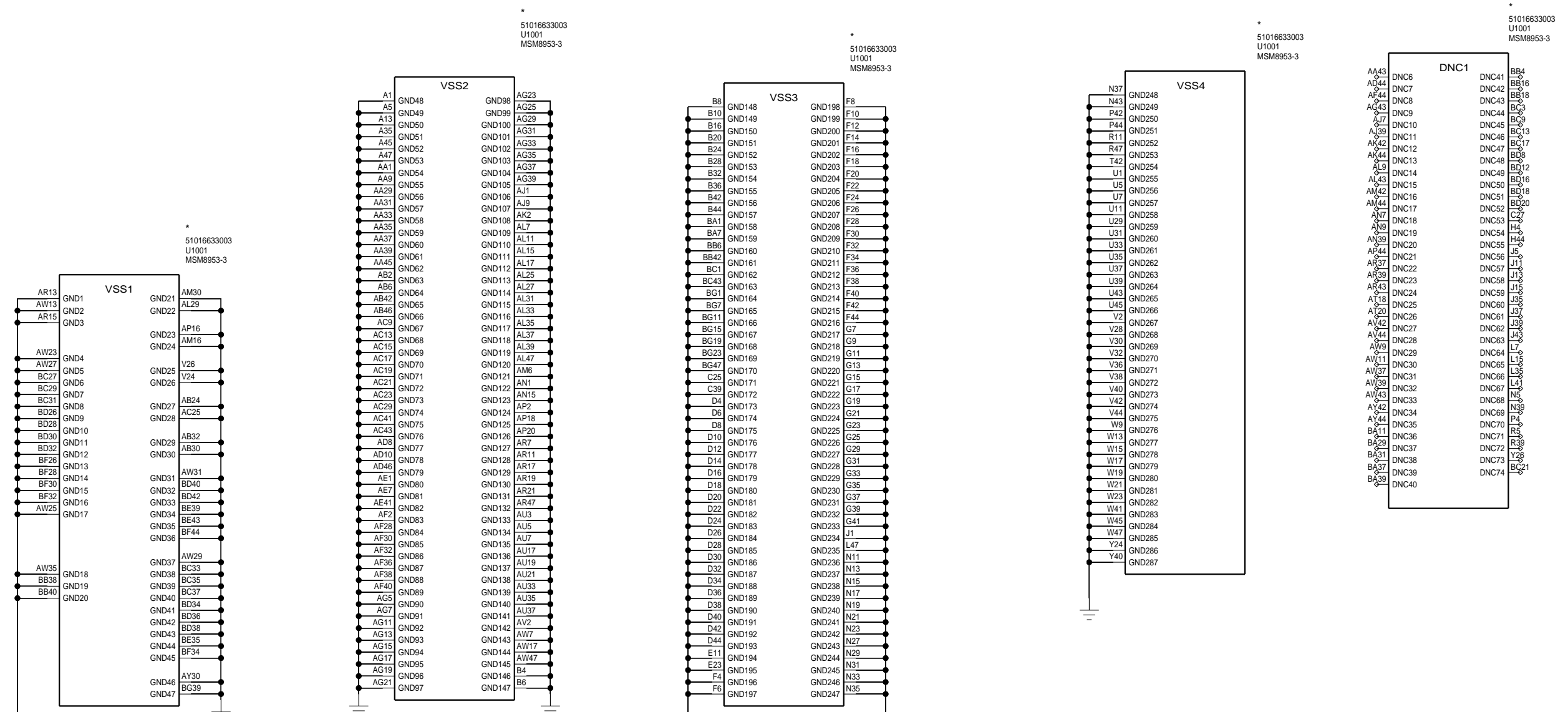


CAD NOTE:  
REMOTE SENSE POINT SHOULD BE PLACED NEAR THE BULK CAPS



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
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# 1200:MSM: GROUND

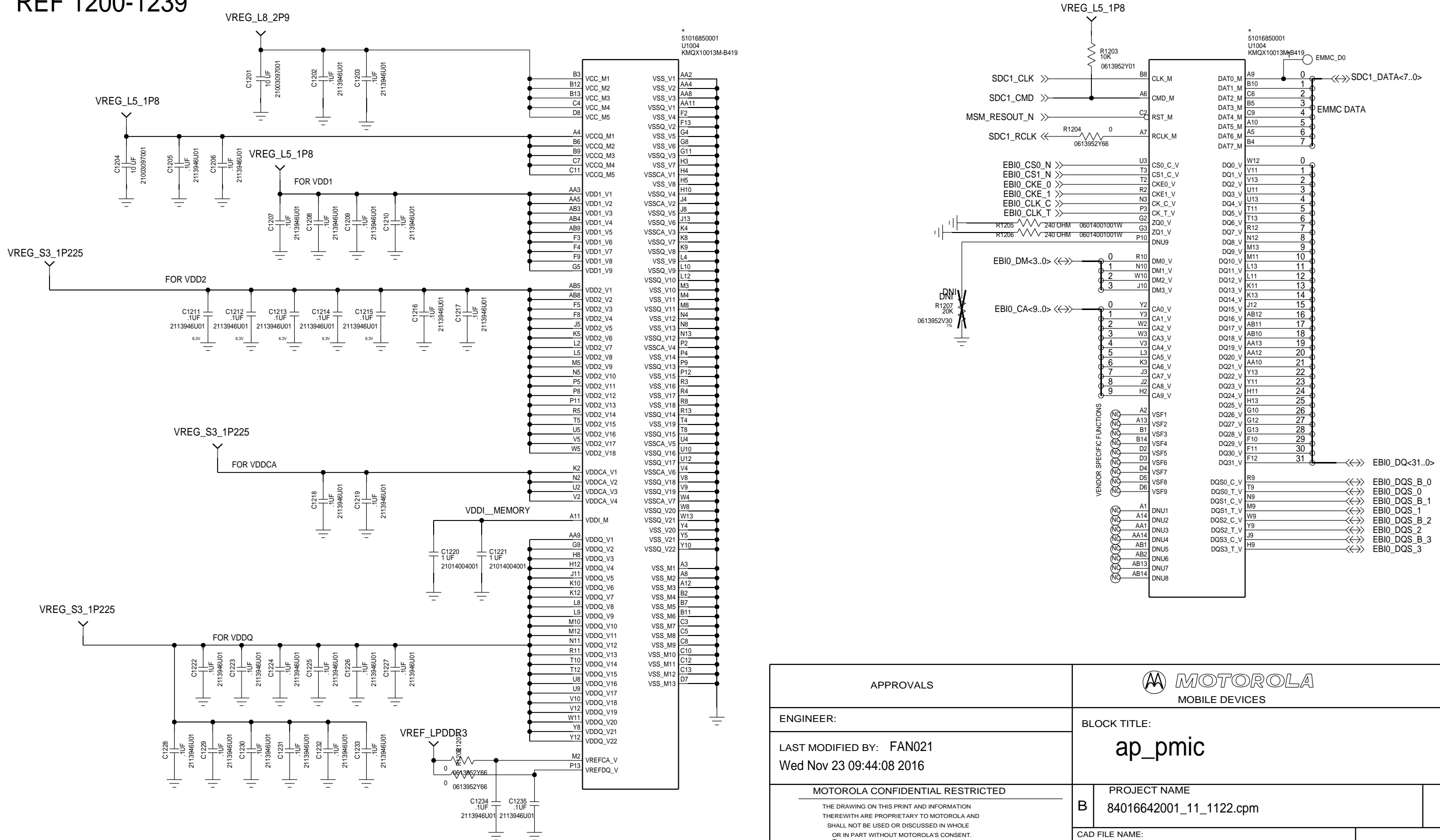


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
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		CAD FILE NAME:	
		PAGE 10 OF 56	

# 1200:MEMORY: EMCP

REF 1200-1239

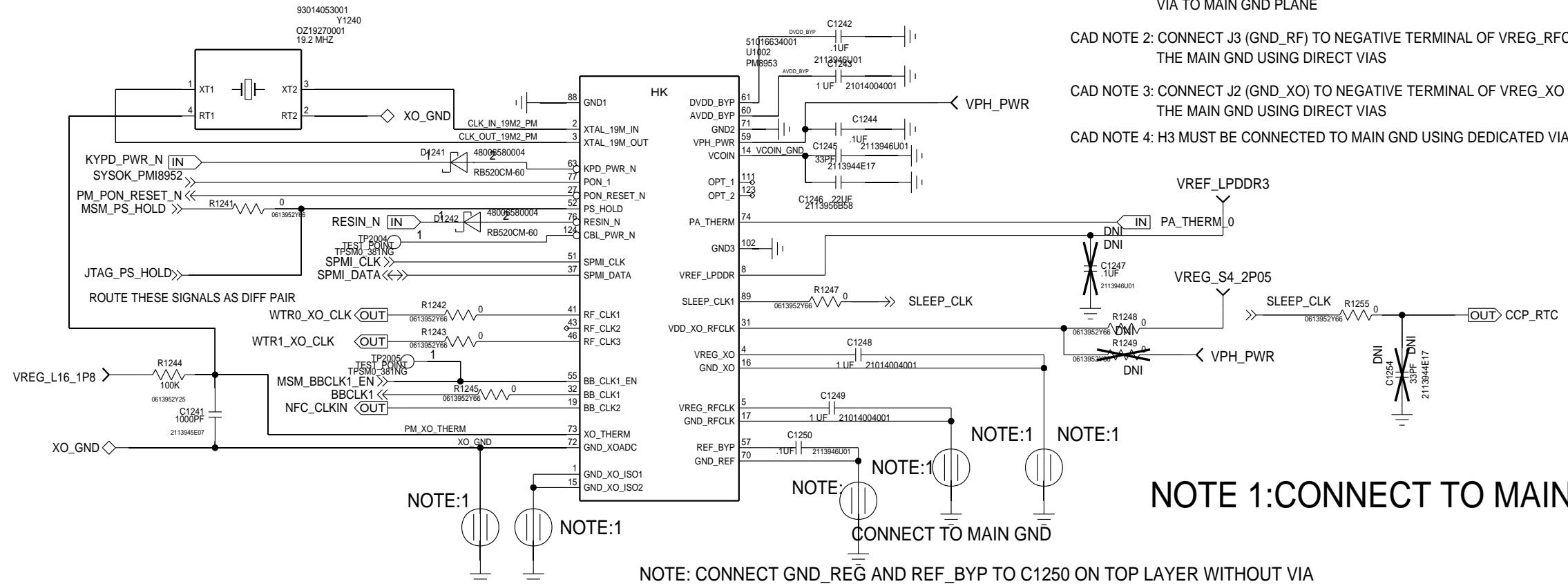
EMCP;KMRX1000BM-B614;32GB+24GB;LPDDR3



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:44:08 2016		<b>ap_pmic</b>	
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		CAD FILE NAME:	PAGE 11 OF 56

# 1240:PM8953: HK/GHRG/LED/GPIO

REF 1240-1259



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

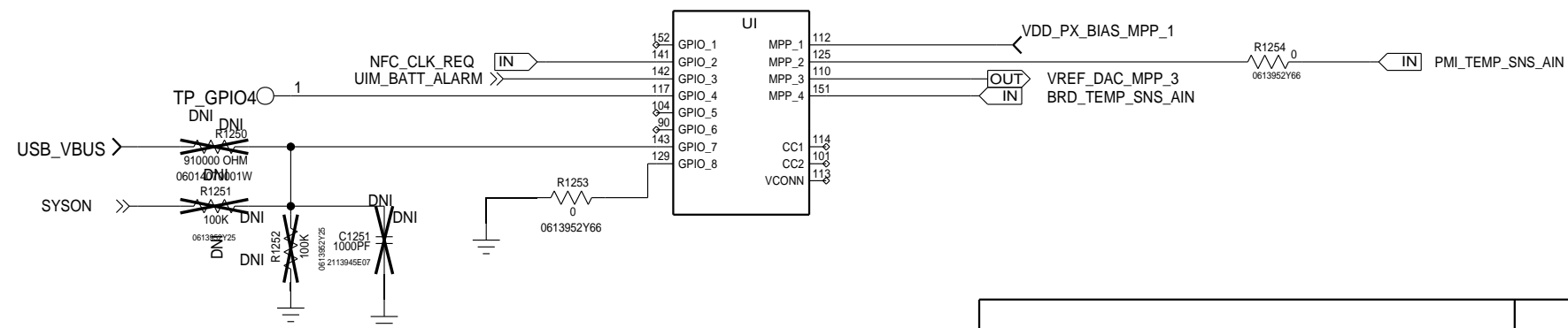
CAD NOTE 3: CONNECT J2 (GND\_XO) TO NEGATIVE TERMINAL OF VREG\_XO AND CONNECT TO THE MAIN GND USING DIRECT VIAS

CAD NOTE 4: H3 MUST BE CONNECTED TO MAIN GND USING DEDICATED VIA

NOTE 1:CONNECT TO MAIN GND

NOTE: CONNECT GND\_REG AND REF\_BYP TO C1250 ON TOP LAYER WITHOUT VIA

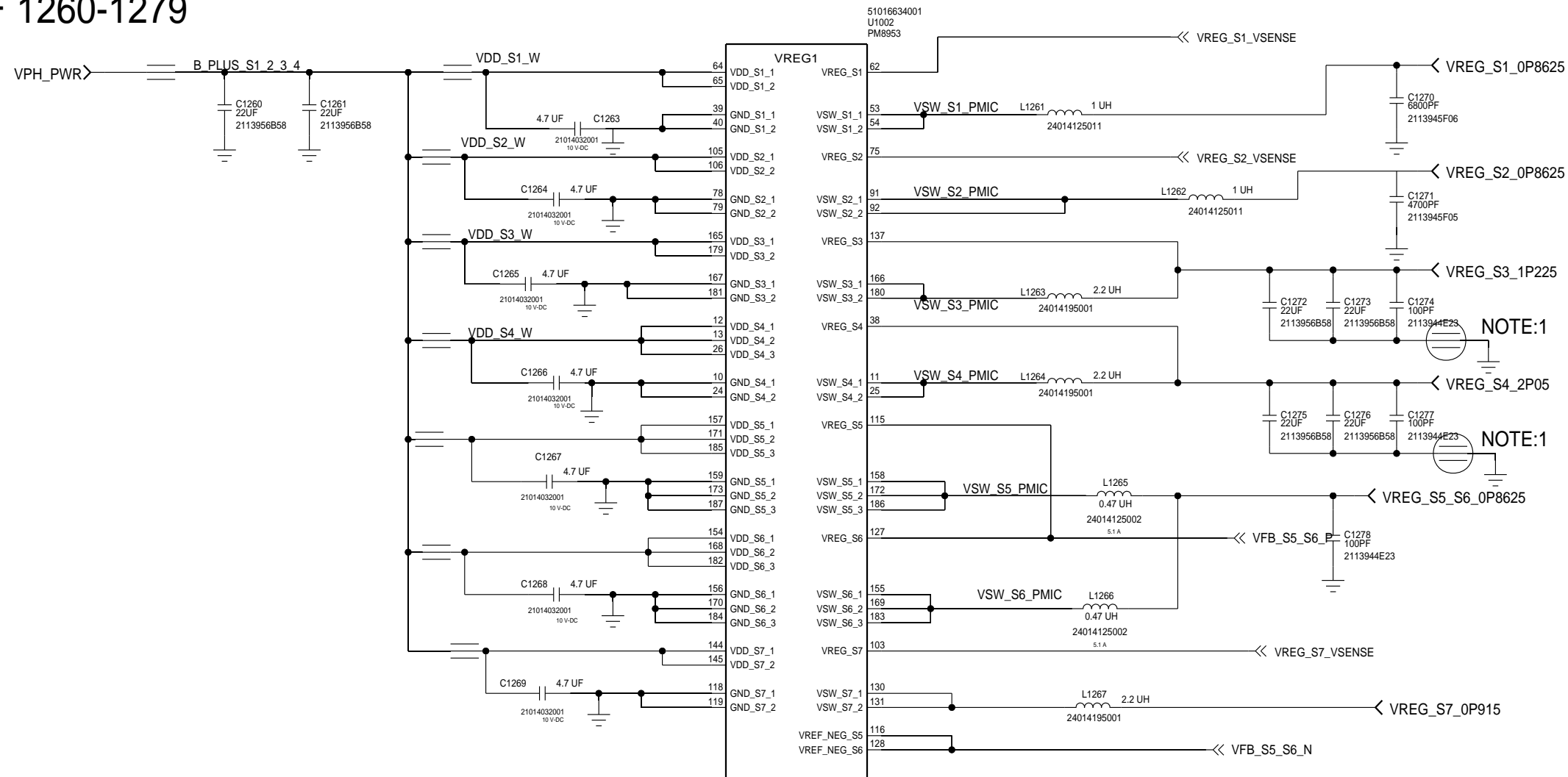
NOTE 1:CONNECT TO MAIN GND



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:57 2016		ap_pmic	
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		B 84016642001_11_1122.cpm	01
CAD FILE NAME:		PAGE 12 OF 56	

# 1260:PM8953: SMPS

## REF 1260-1279



NOTE:1

NOTE:1

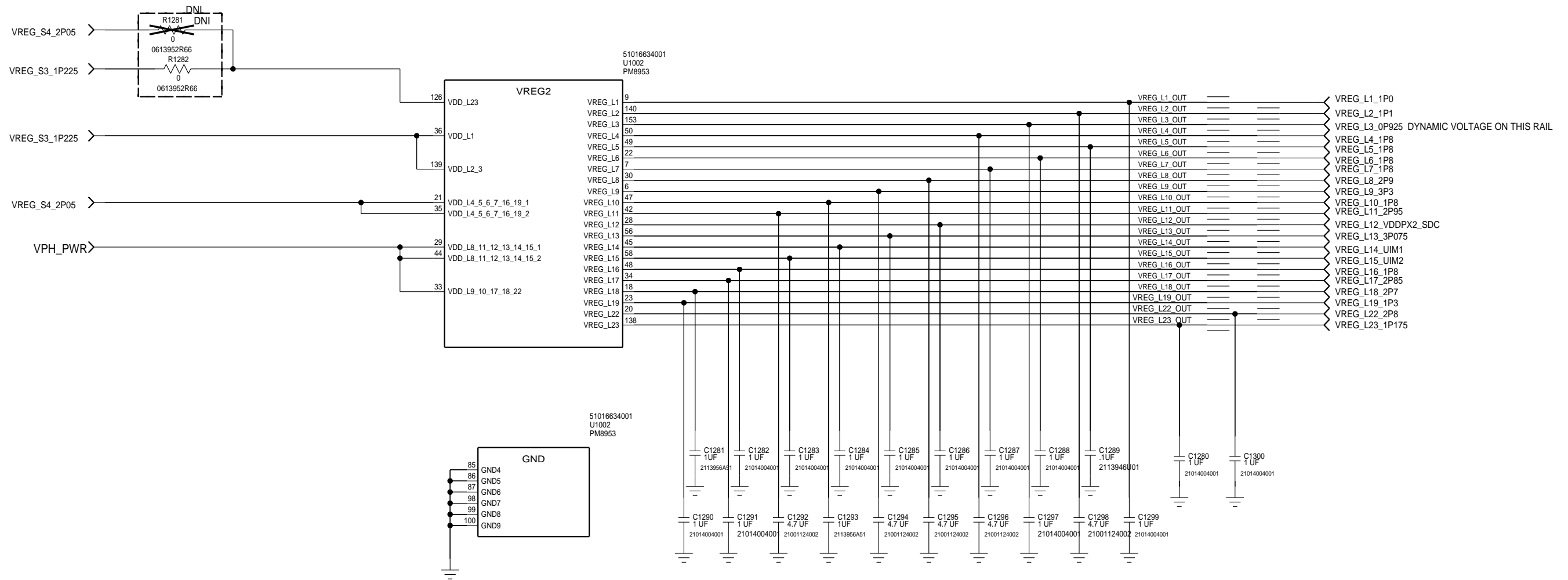
NOTE 1:CONNECT TO MAIN GND

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

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:54 2016		ap_pmic	
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		CAD FILE NAME:	
		PAGE 13 OF 56	

# 1280:PM8953: VREGS

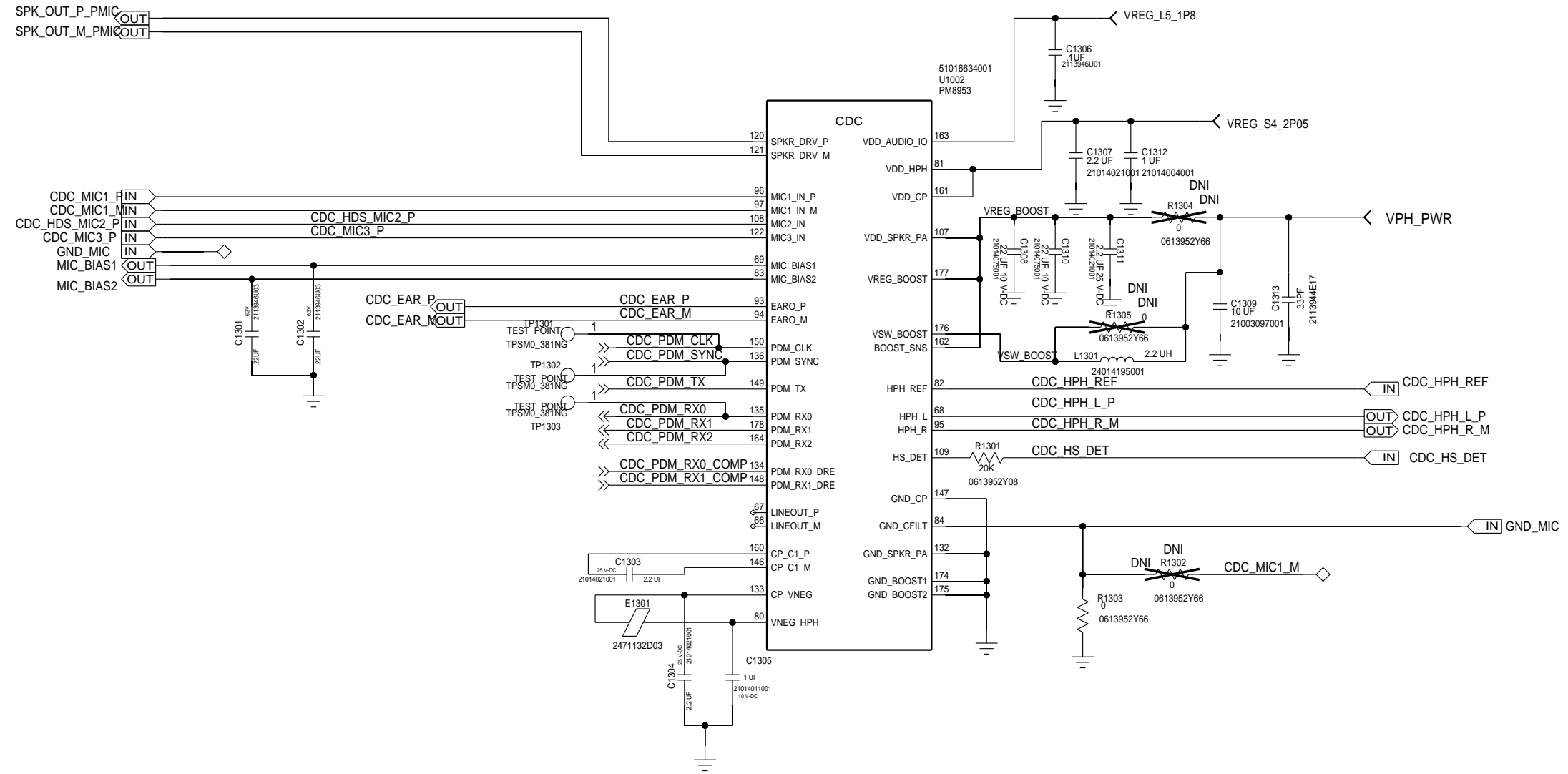
REF 1280-1299



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
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		CAD FILE NAME:	
		PAGE 14 OF 56	

# 1300:PM8953:CODEC

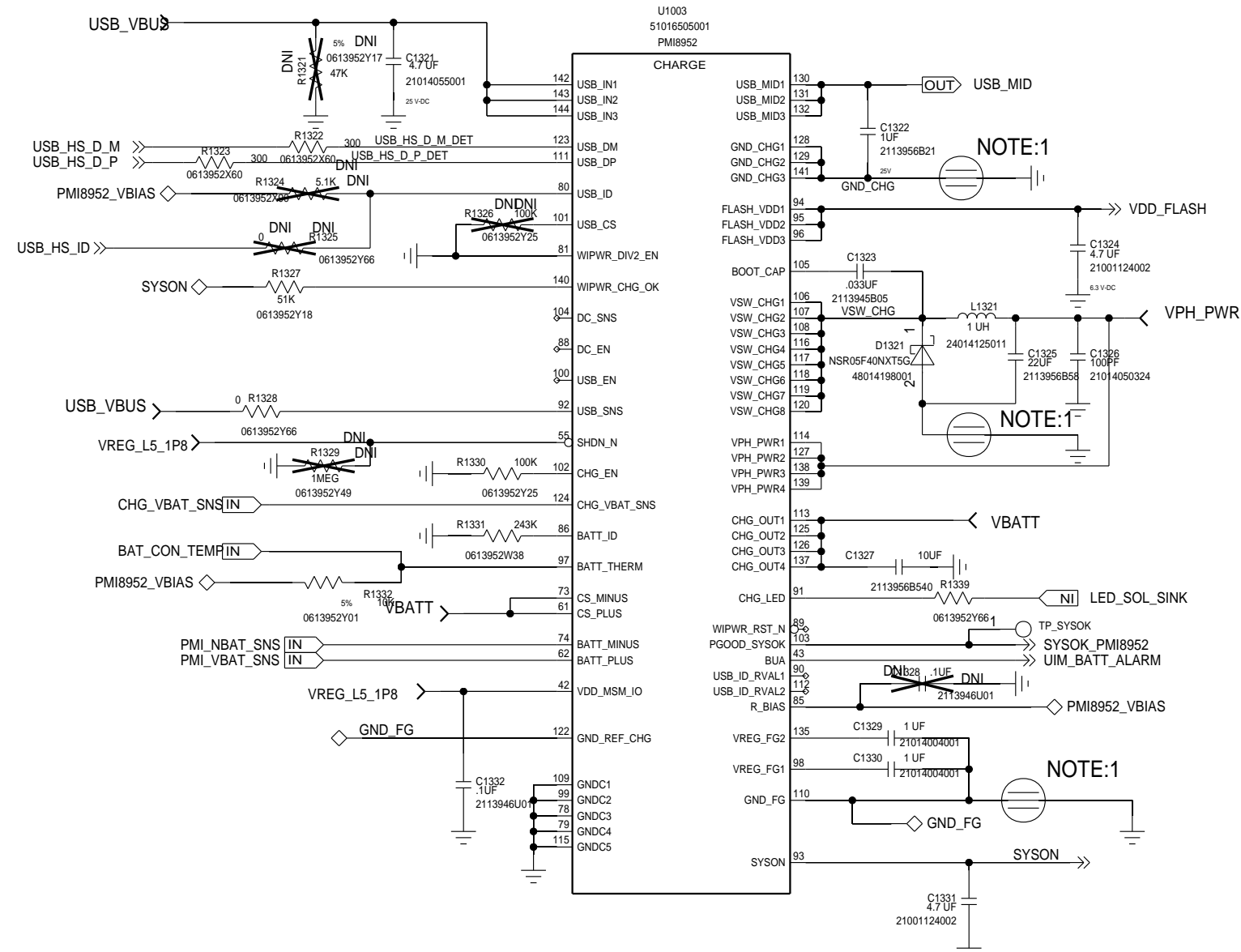
REF 1300-1319



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
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		CAD FILE NAME:	
		PAGE 15 OF 56	

# 1320:PMI8952: CHARGING

REF 1320-1339



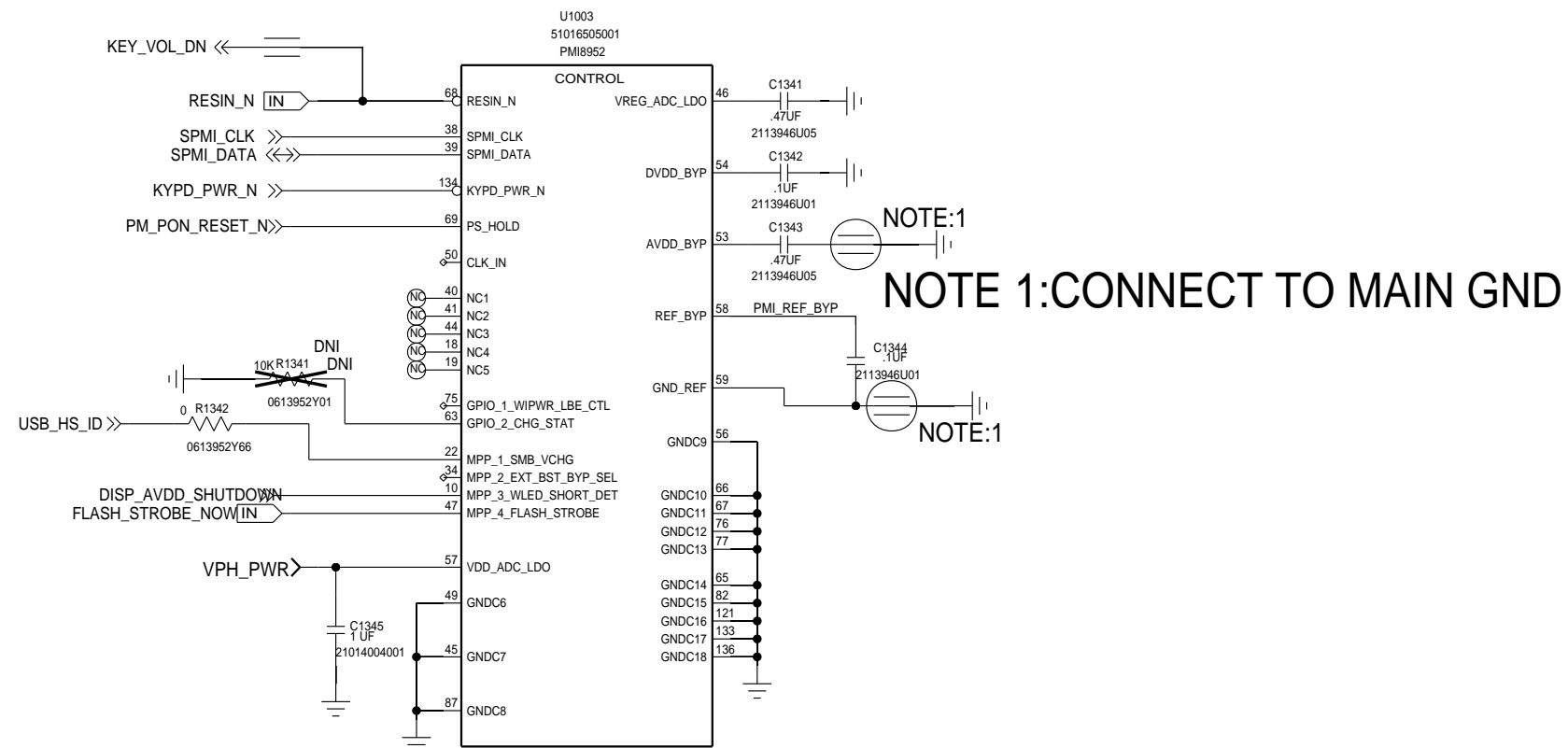
NOTE 1:CONNECT TO MAIN GND

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:40 2016		<b>ap_pmic</b>	
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		B 84016642001_11_1122.cpm	01
CAD FILE NAME:		PAGE 16 OF 56	



# 1340:PMI8952: IO\_REF

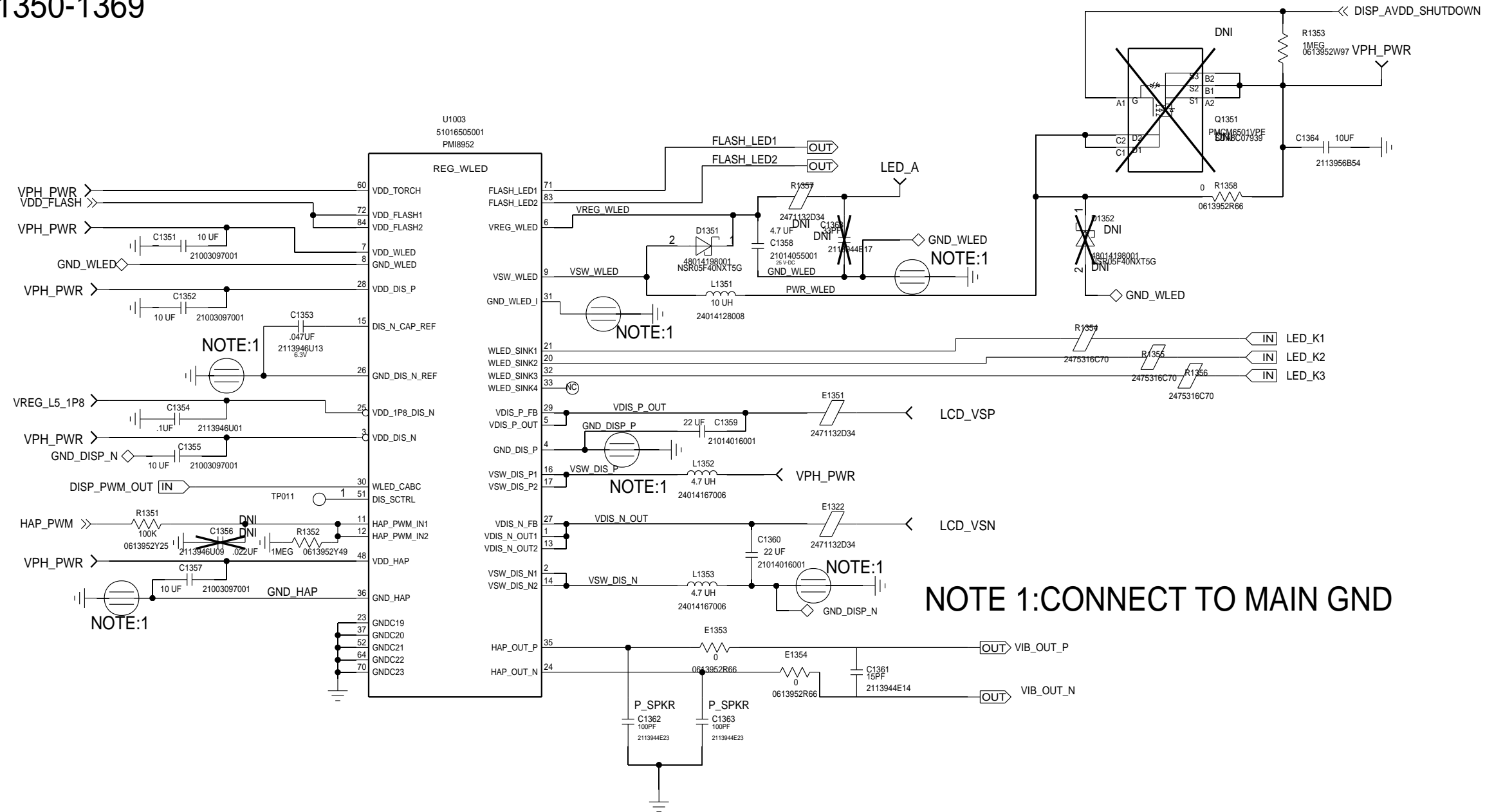
REF 1340-1349



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
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LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:46 2016		<b>ap_pmic</b>	
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		CAD FILE NAME:	
		PAGE 17 OF 56	

# 1350:PMI8952: REG\_WLED

REF 1350-1369



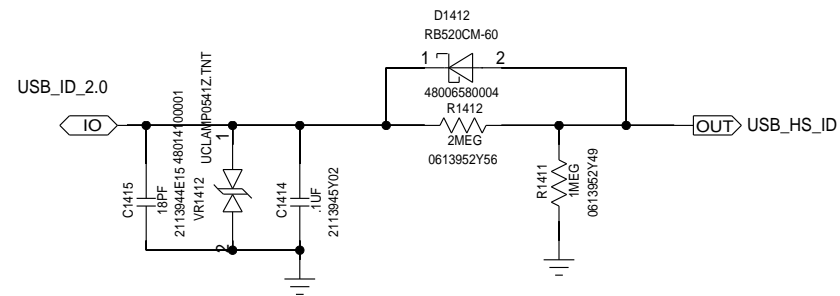
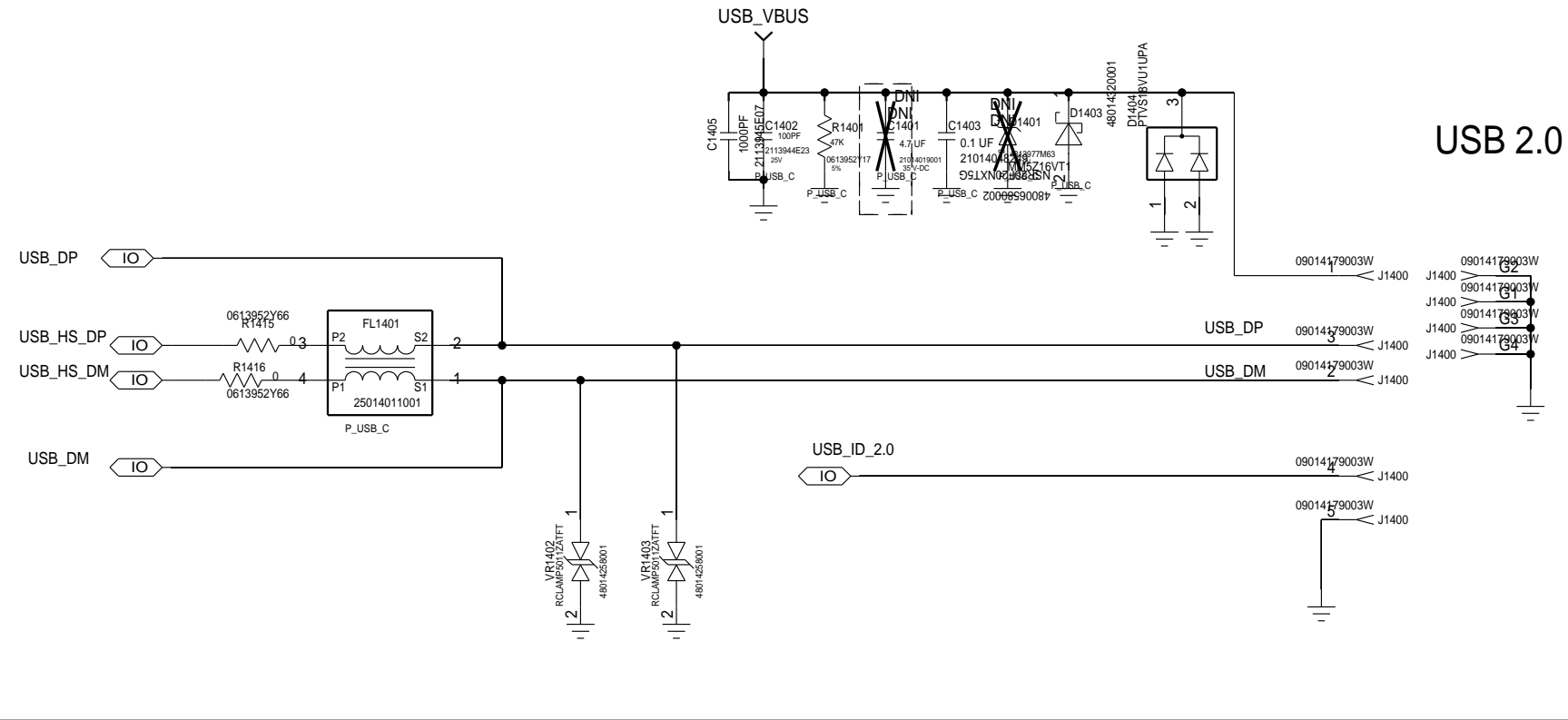
**NOTE 1:CONNECT TO MAIN GND**

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:43 2016		<b>ap_pmic</b>	
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		B 84016642001_11_1122.cpm	01
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# 1400:TYPE\_C\_USB\_CONN

## REF 1400-1419

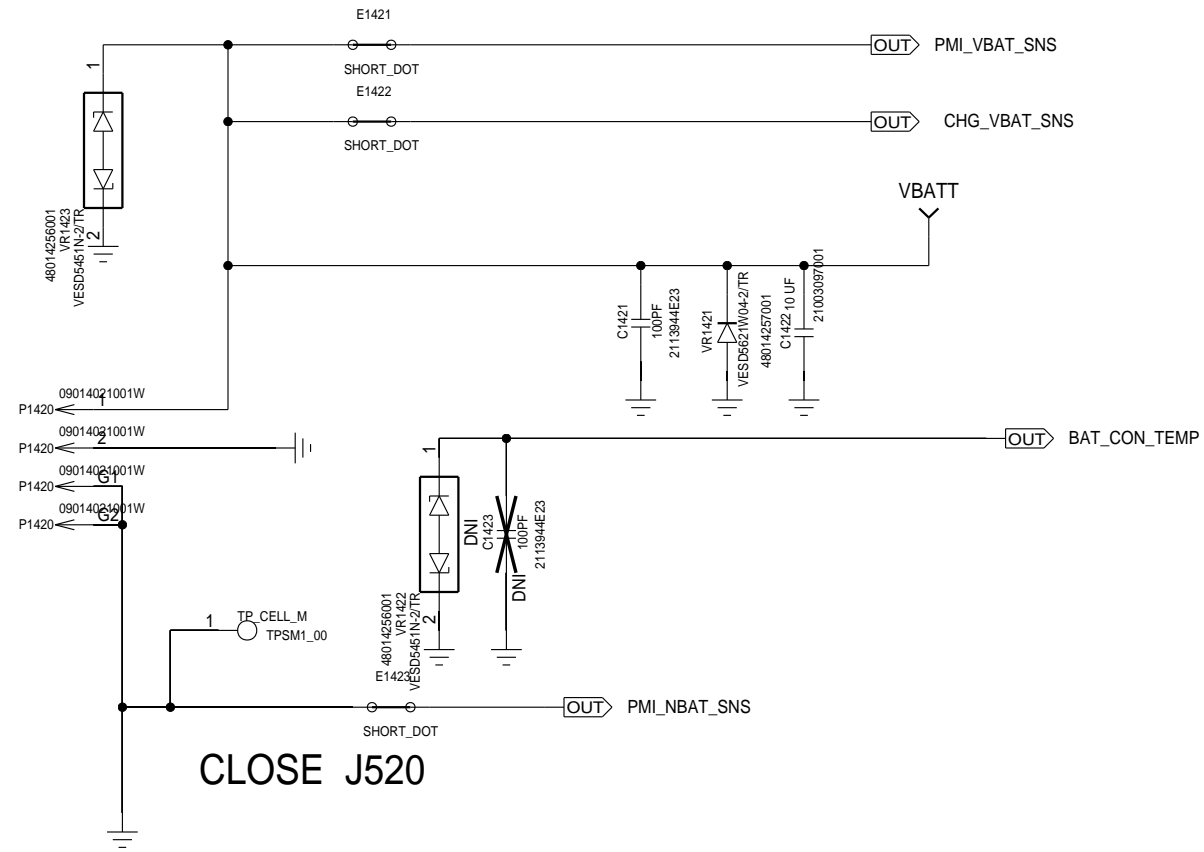
### MTYPE C USB



APPROVALS	<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:	BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:44:38 2016	<b>power</b>	
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	B 84016642001_11_1122.cpm	01
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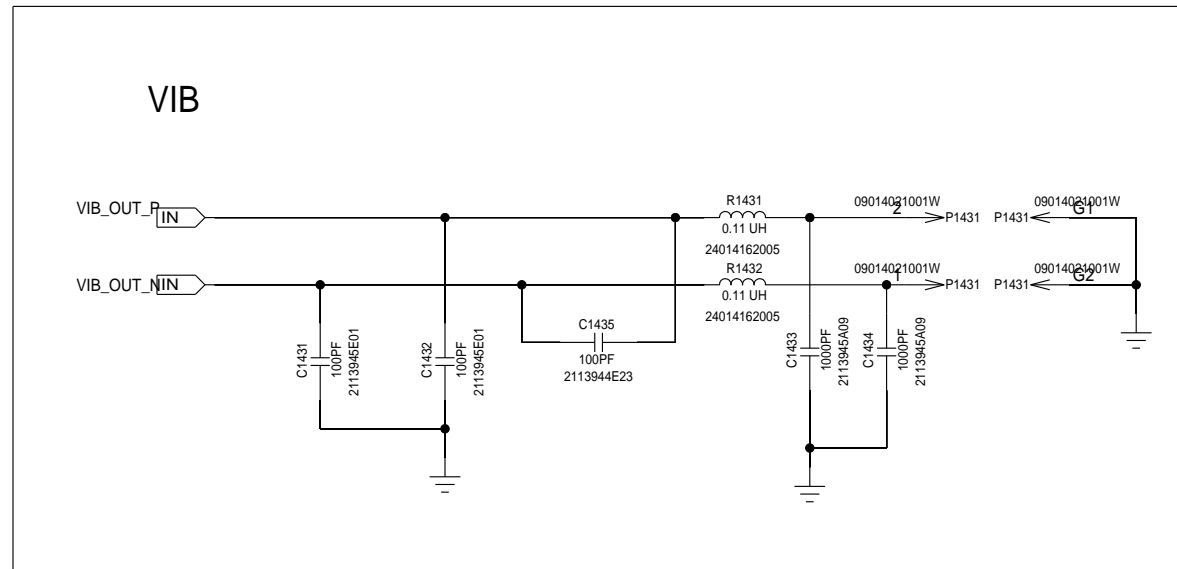
# 1420:BATT\_CONN

## REF 1420-1439



BATTERY CONNECTOR

CLOSE J520

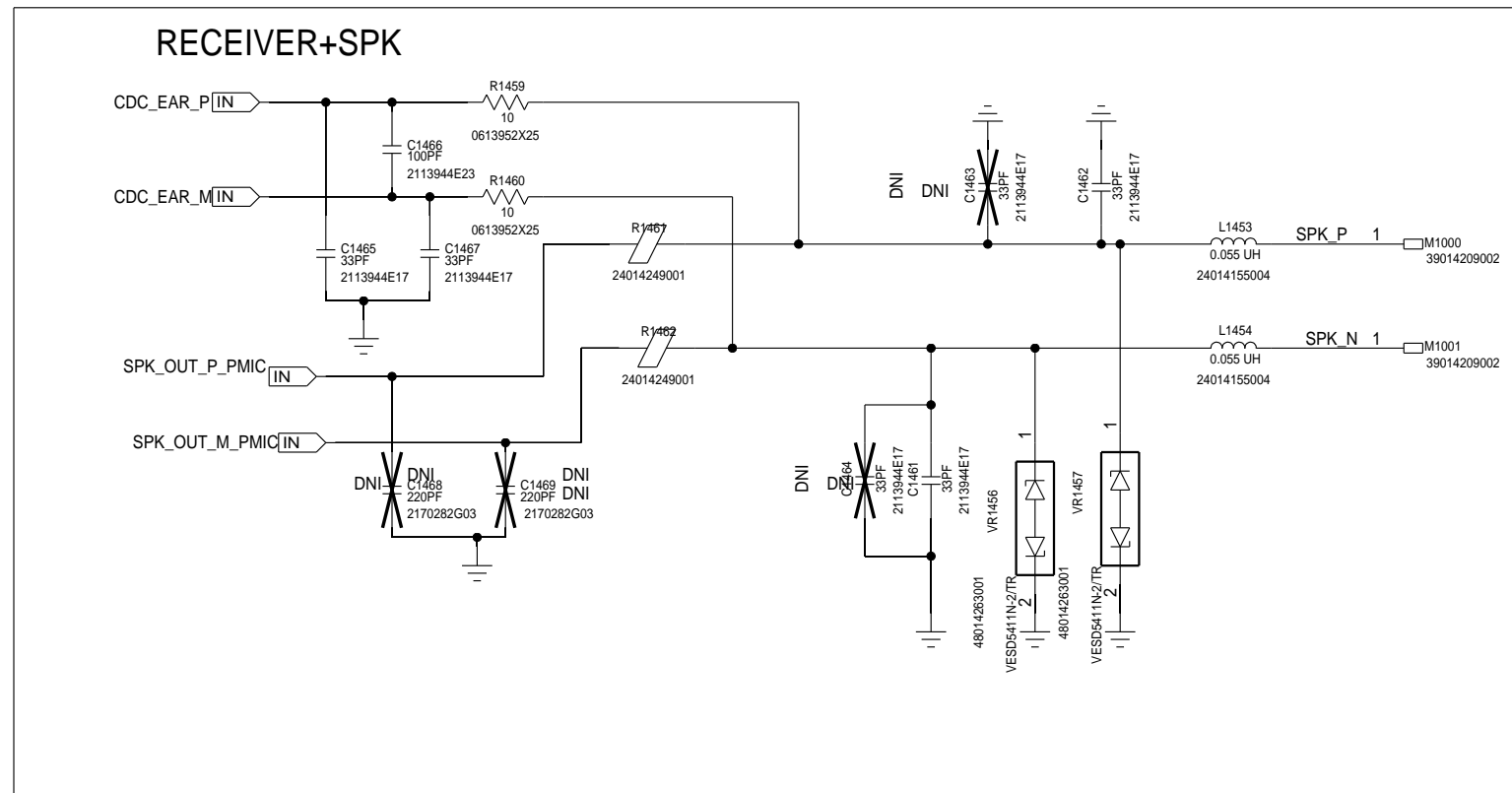
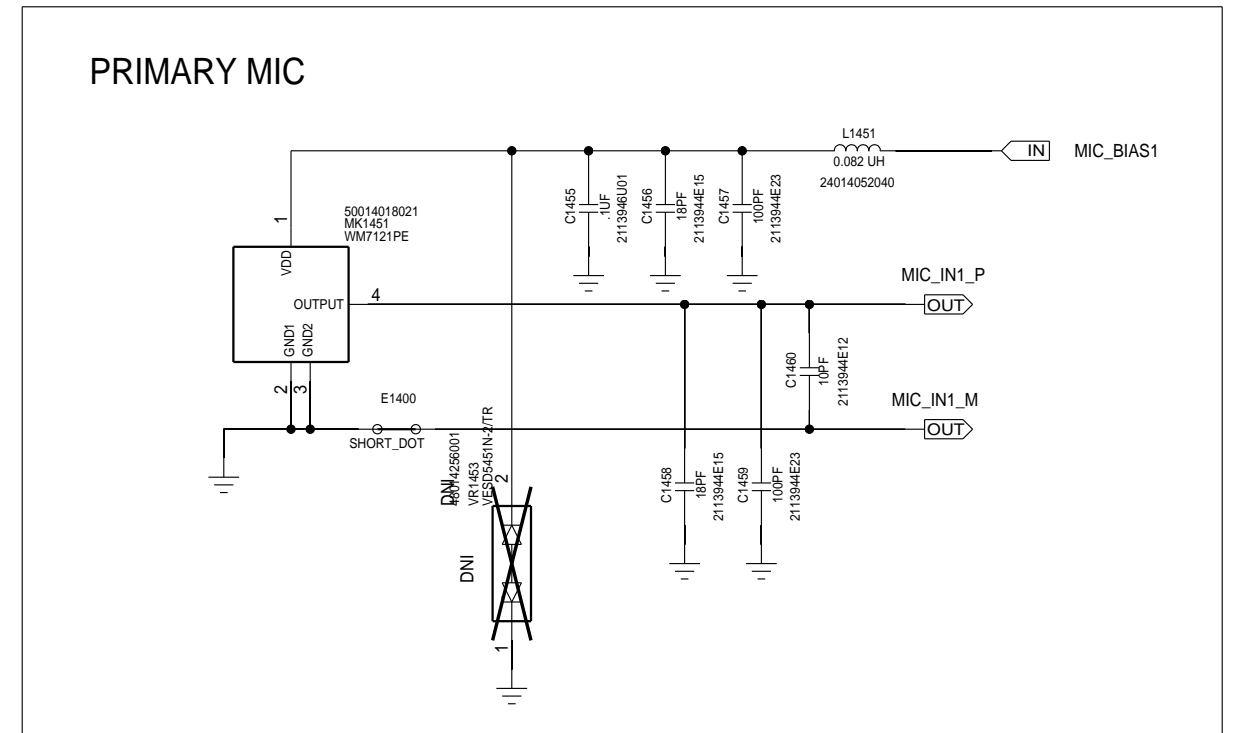
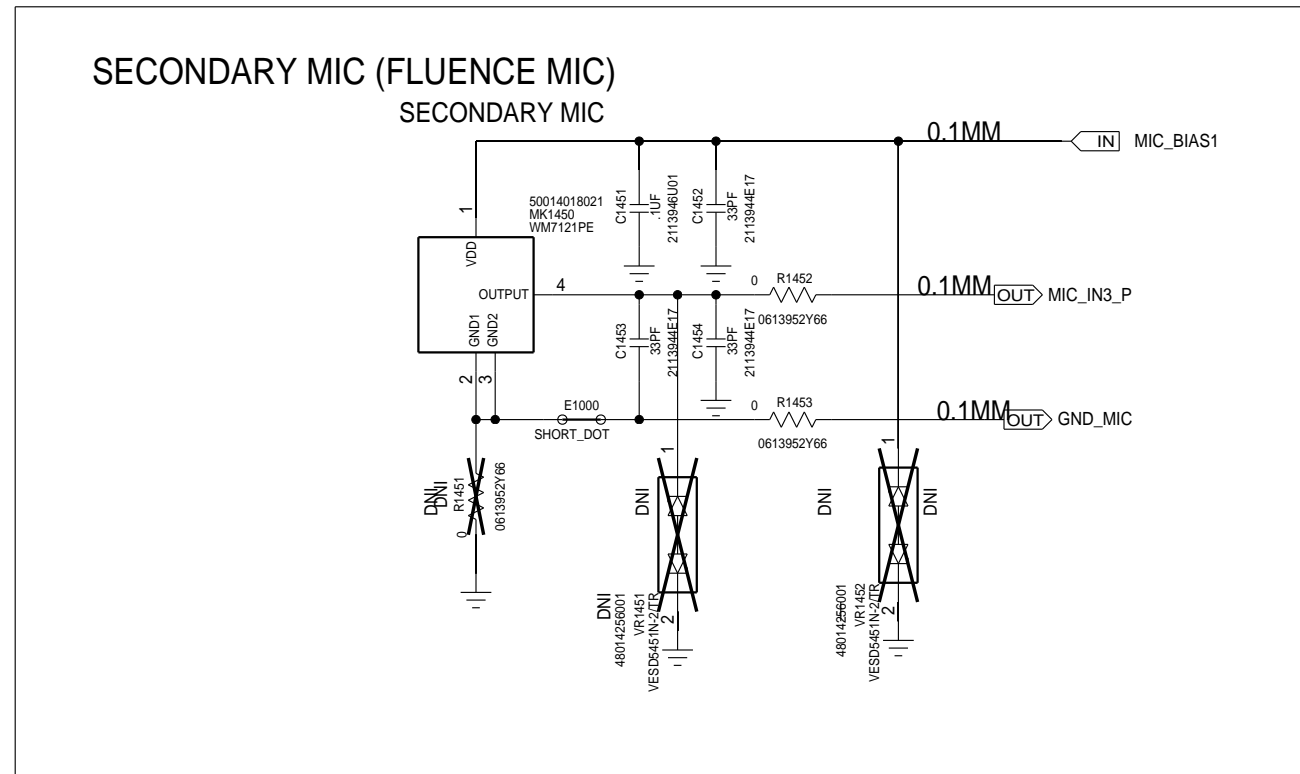


VIB

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
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LAST MODIFIED BY: Wed Nov 23 09:44:41 2016		<b>power</b>	
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# 1450:MIC/SPK

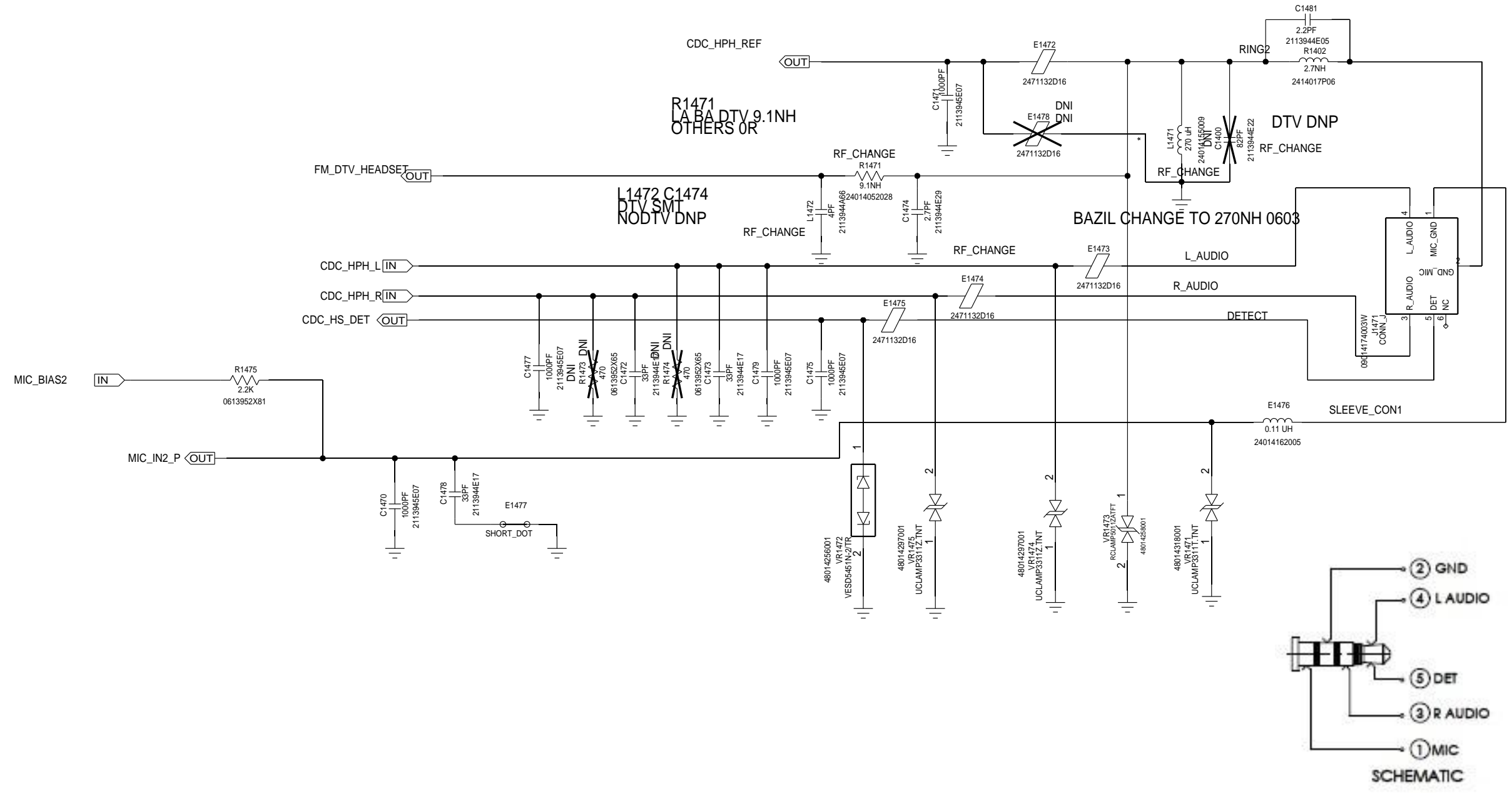
## REF 1450-1469



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: <b>audio_fe</b>	
LAST MODIFIED BY: Wed Nov 23 09:44:44 2016			
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		CAD FILE NAME:	
		PAGE 21 OF 56	

# 1470:earphone jack

## REF 1470-1479



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		audio_fe	
Wed Nov 23 09:44:47 2016		PROJECT NAME	
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		CAD FILE NAME:	

# 1480:SMART BOOST PA


## REF 1480-1499

\*\*\* BOOST IC I2C ADD. 0X80

I2C ADDR:0X98/99

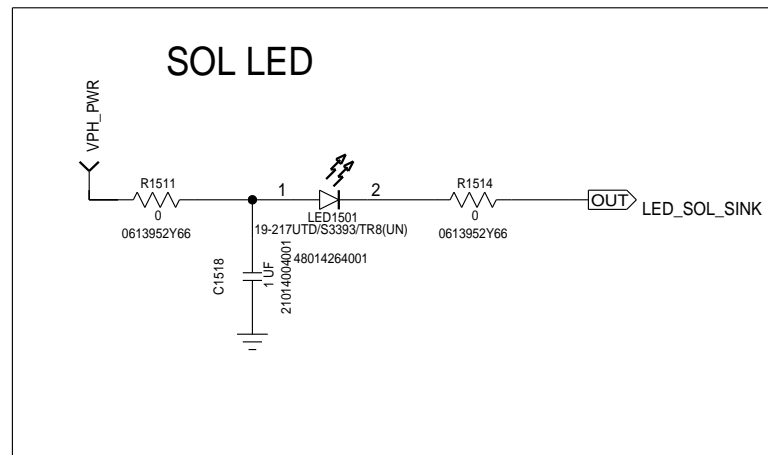
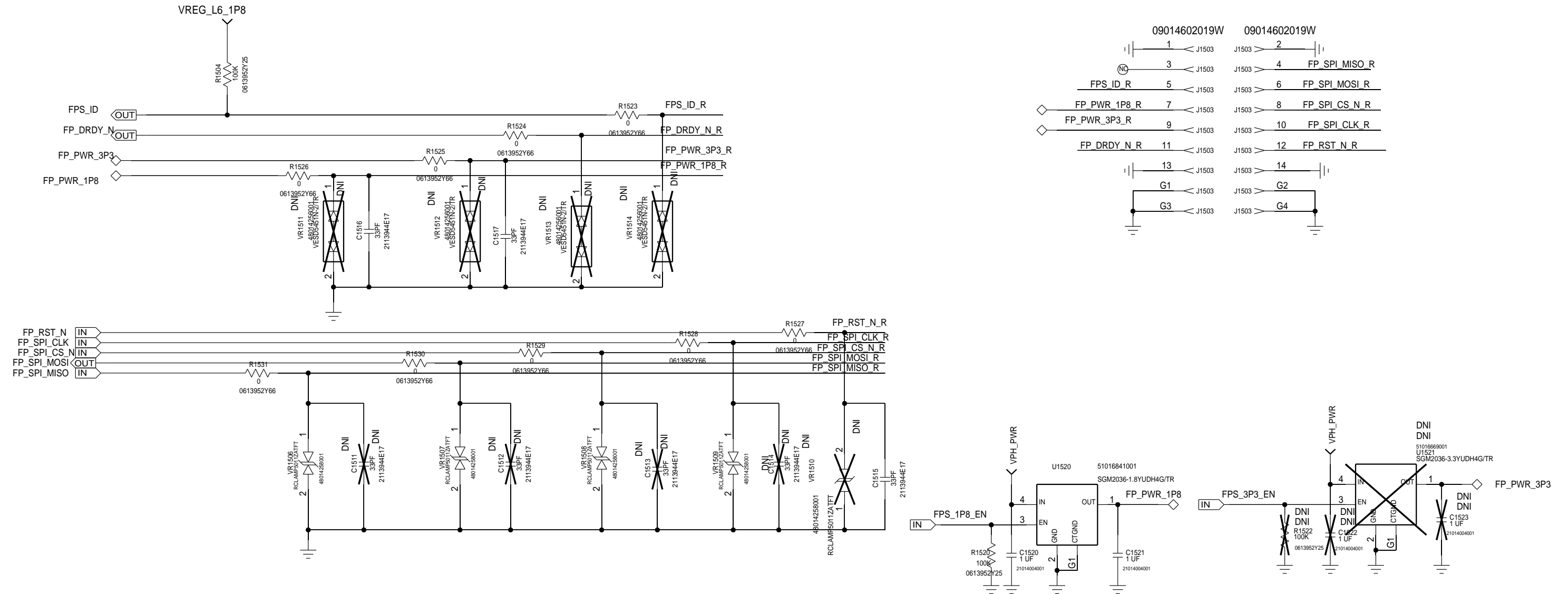
D  
C  
B  
A

D  
C  
B  
A

APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Thu Jul 07 15:31:44 2016		<b>audio_fe</b>	
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		CAD FILE NAME:	PAGE 23 OF 56

# 1500:Fingerprint

## REF 1500-1599

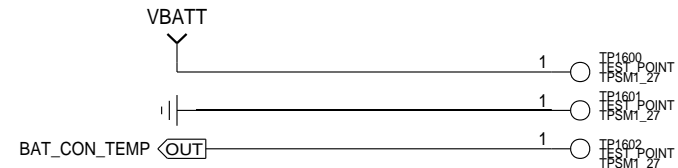


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		<b>connectivity_bb</b>	
Wed Nov 23 09:44:54 2016		PROJECT NAME	REV
MOTOROLA CONFIDENTIAL RESTRICTED		B 84016642001_11_1122.cpm	01
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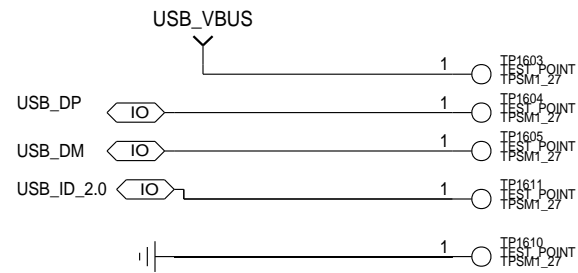


# 1600:Test point and Shield REF 1600-1699

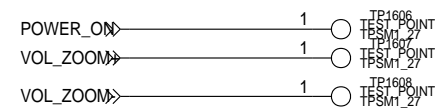
## FACTORY TEST POINT FOR BATTERY



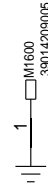
## FACTORY TEST POINT FOR USB



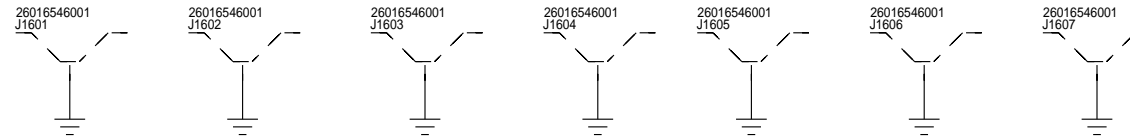
## FACTORY TEST POINT FOR SIM1



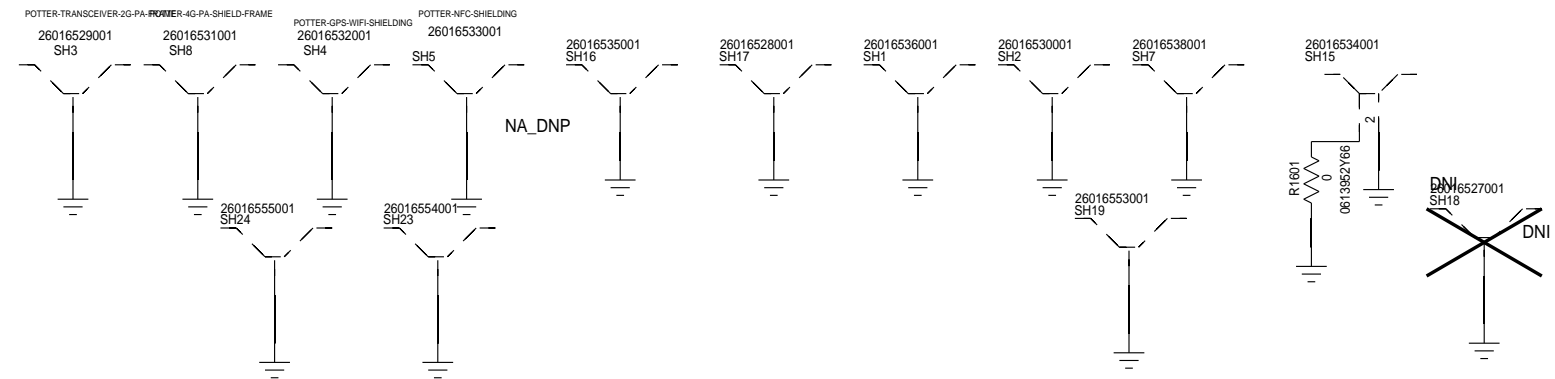
## SPRING



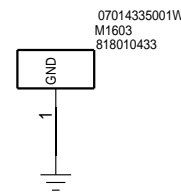
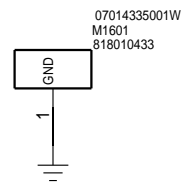
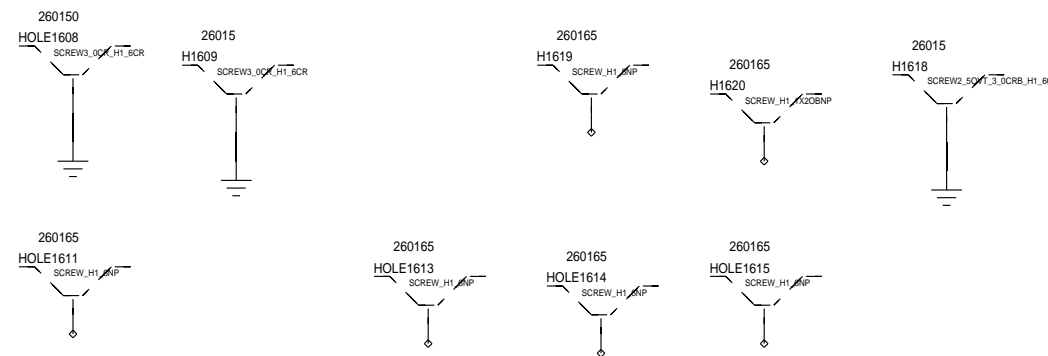
## SMT PAD



## SHIELDS



## SCREW



### APPROVALS

ENGINEER:

LAST MODIFIED BY:

Wed Nov 23 09:44:51 2016

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BLOCK TITLE:

connectivity\_bb

PROJECT NAME

84016642001\_11\_1122.cpm

REV

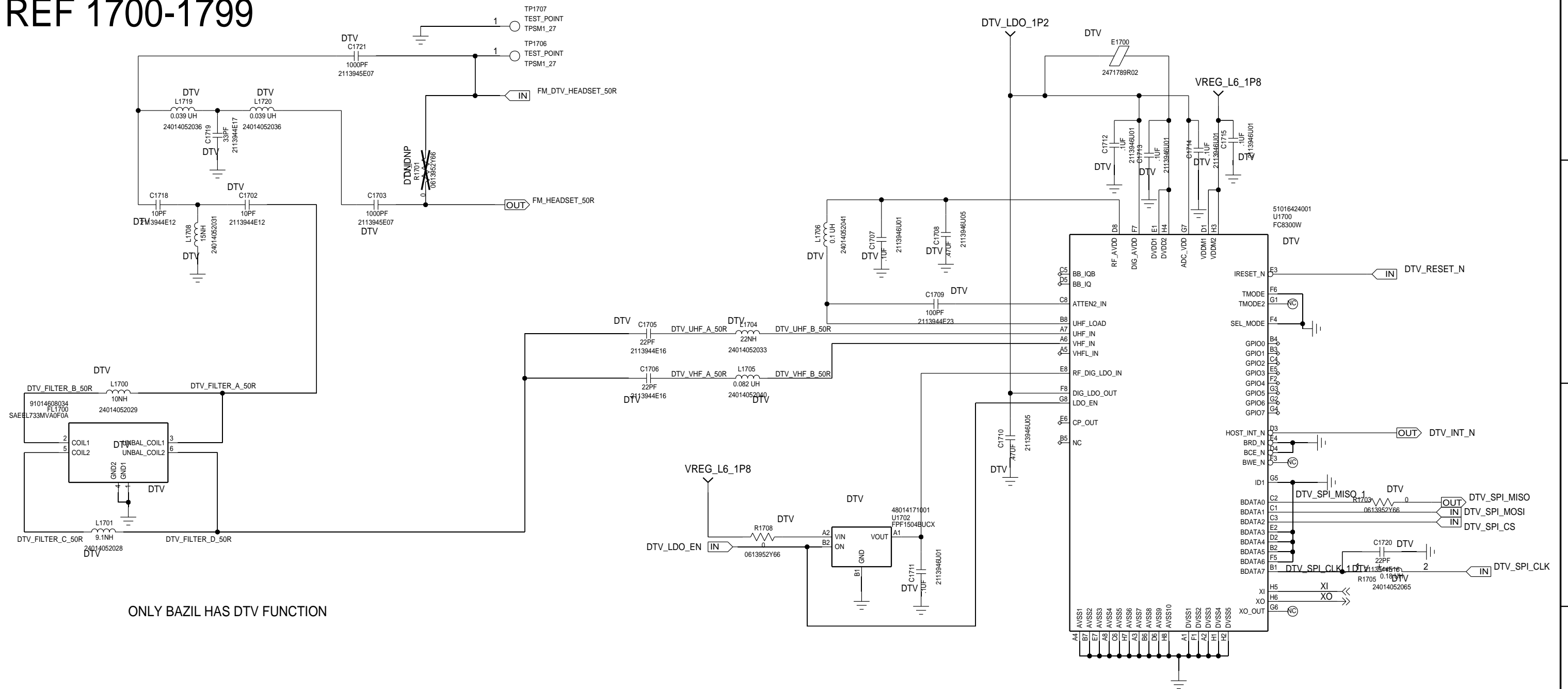
01

CAD FILE NAME:

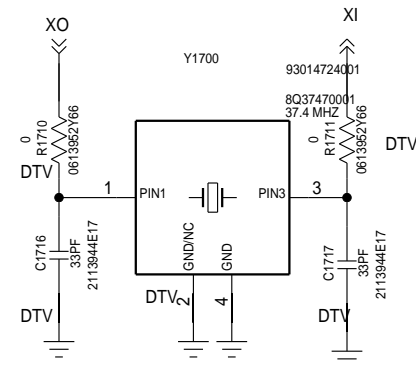
PAGE 25 OF 56

# 1700:DTV

## REF 1700-1799



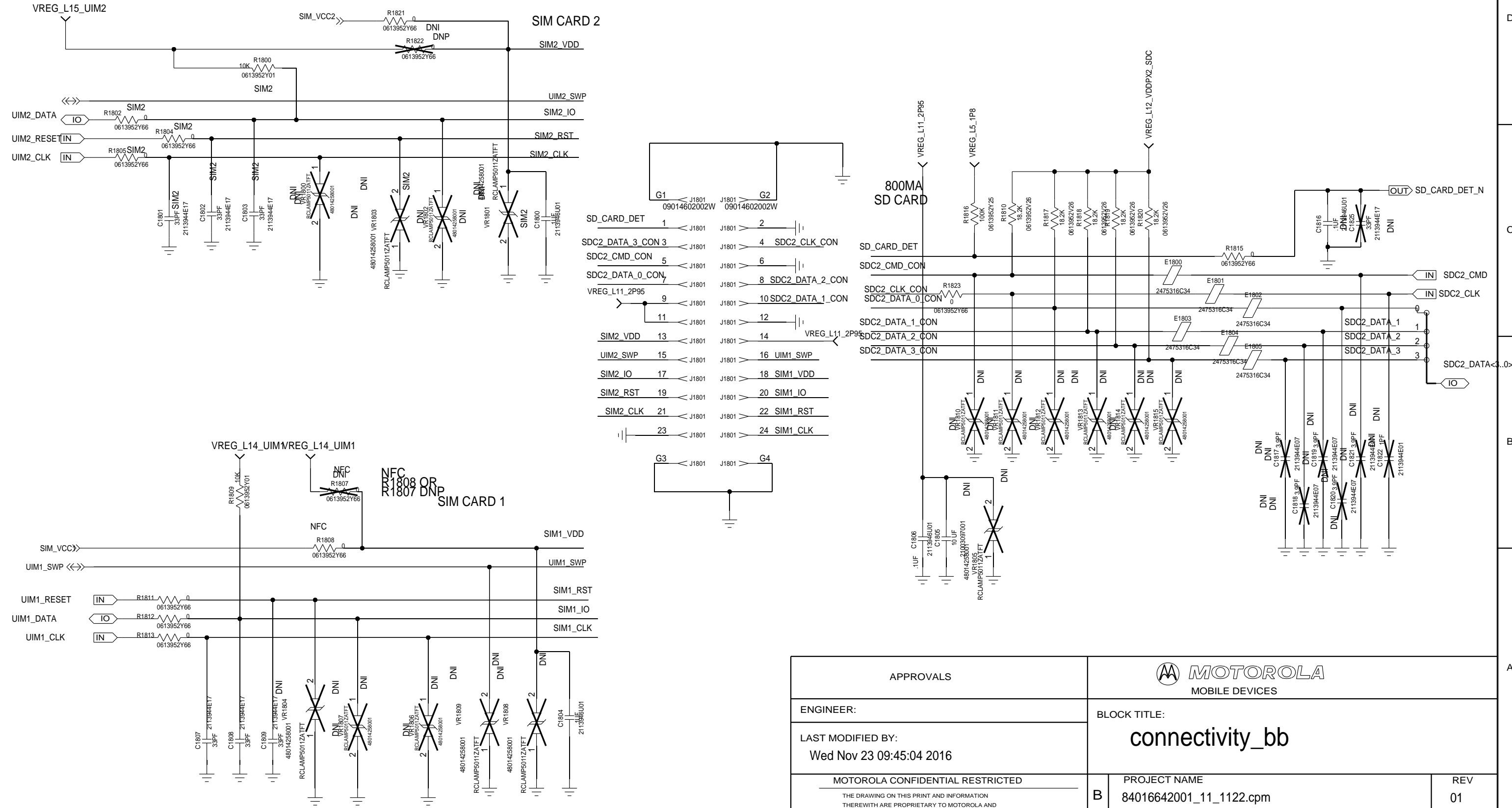
ONLY BAZIL HAS DTV FUNCTION



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:01 2016		<b>connectivity_bb</b>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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CAD FILE NAME:		PAGE 26 OF 56	

# 1800:SIM/SD\_CONN

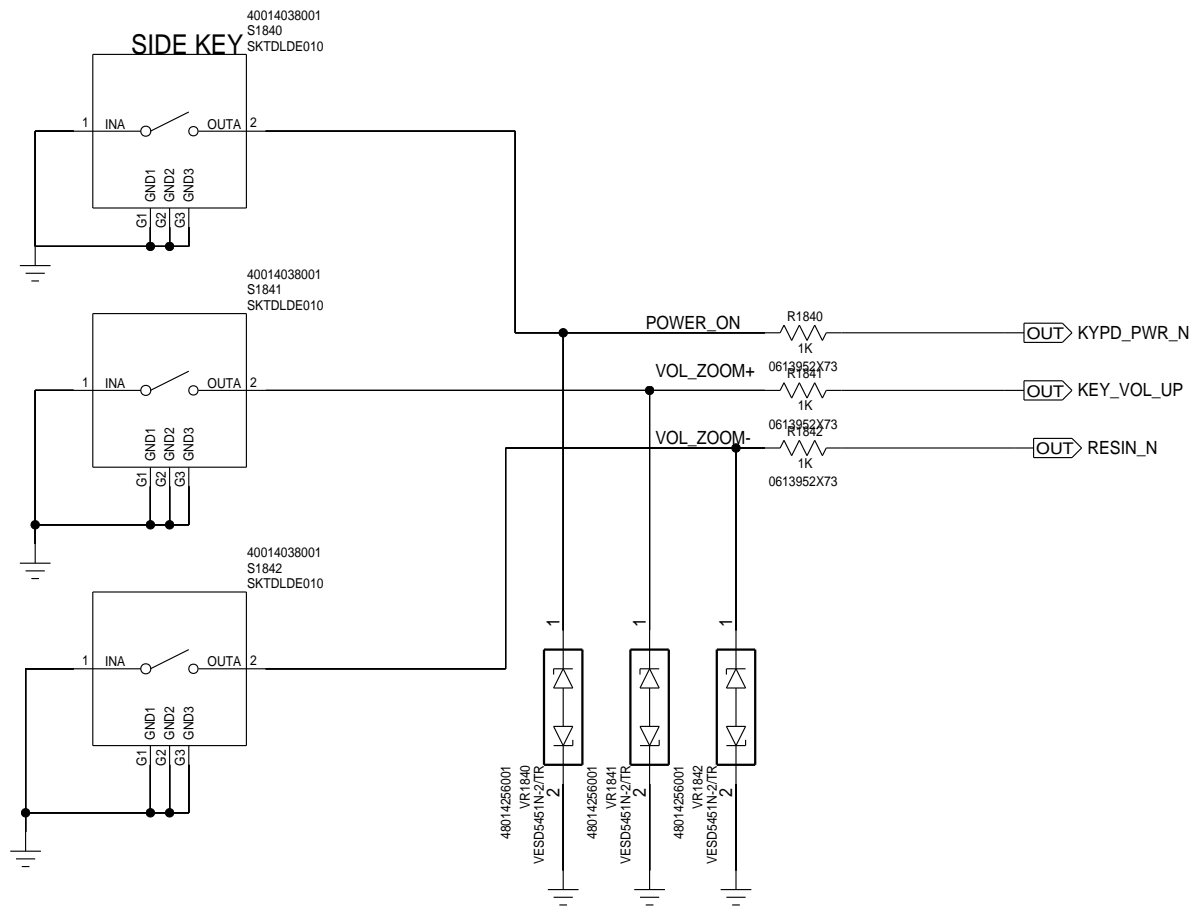
## REF 1800-1839




APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: <b>connectivity_bb</b>	
LAST MODIFIED BY: Wed Nov 23 09:45:04 2016		PROJECT NAME 84016642001_11_1122.cpm	
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		PAGE 27 OF 56	

# 1840:KEYPAD

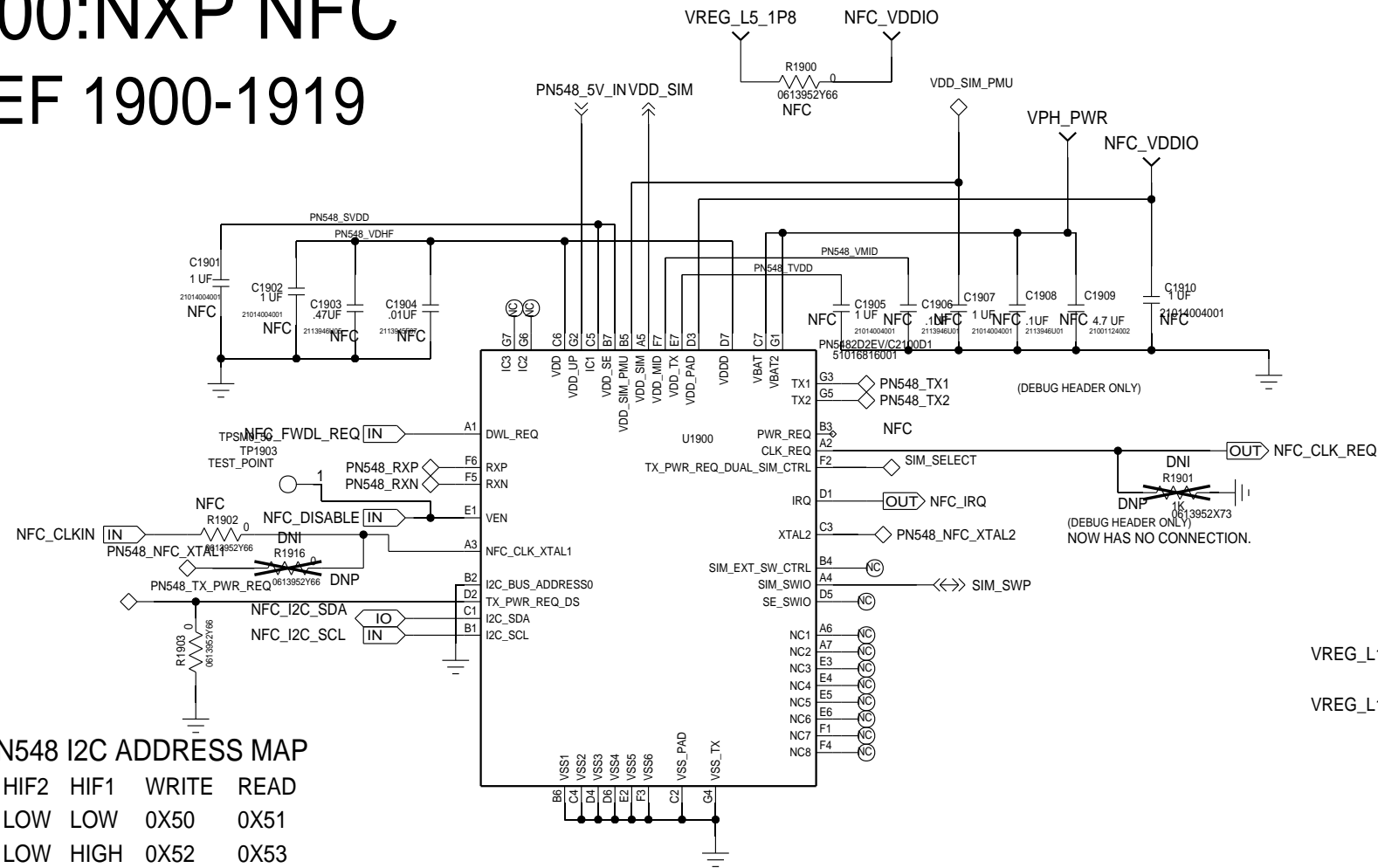
## REF 1840-1849



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:07 2016		connectivity_bb	
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		CAD FILE NAME:	
		PAGE 28 OF 56	

# 1900:NXP NFC

## REF 1900-1919



True Table	Phone ON		Phone OFF/LPM	
	SIM_Select (LOW = SIM 1)	SIM_Select (High = SIM 2)	SIM_Select (LOW = SIM 1)	SIM_Select (High = SIM 2)
VDD_SIM_PMU	Vreg_L14_UIM1 Com4-NC4	Vreg_L15_UIM2 Com4-ND4	No power from PMU Com4-NC4-ND1-open	No power from PMU Com4-ND4-ND2-open
VDD_SIM	No connect Com3-NC3-NC1-open	No connect Com3-NO3-NC2-open	SIM_VCC1 Com3-NC3-NC1-Com1	SIM_VCC2 Com3-NO3-NC2-Com2
SIM_VCC_1	Vreg_L14_UIM1 Com1-NO1	Vreg_L14_UIM1 Com1-NO1	VDD_SIM Com1-NC1-NC3-Com3	Not connected Com1-NC1-NC3-open
SIM_VCC_2	Vreg_L15_UIM2 Com2-NO2	Vreg_L15_UIM2 Com2-NO2	Not connected Com2-NC2-NO3-open	VDD_SIM Com2-NC2-NO3-Com3
UIM1_SWP	SIM_SWP	Not connected	SIM_SWP	Not connected
UIM2_SWP	Not connected	SIM_SWP	Not connected	SIM_SWP

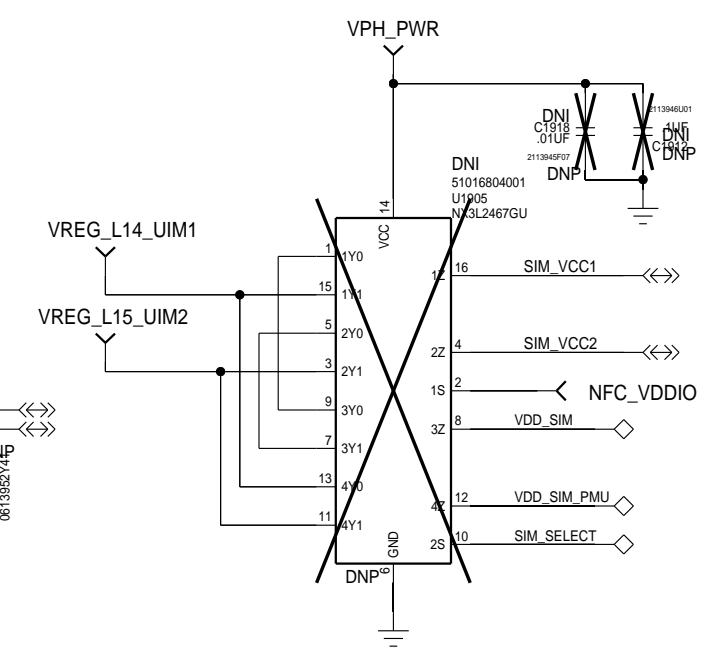
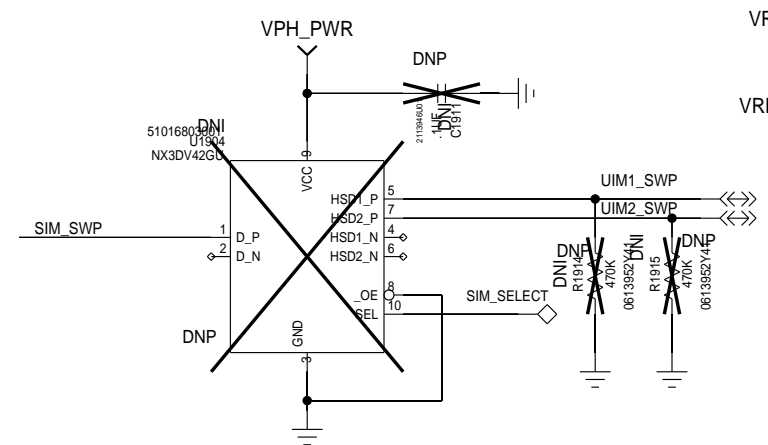
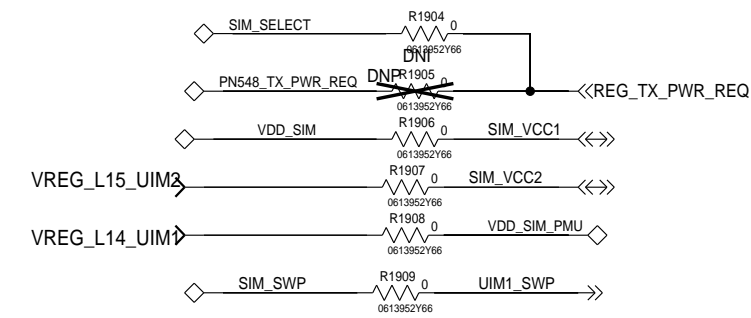
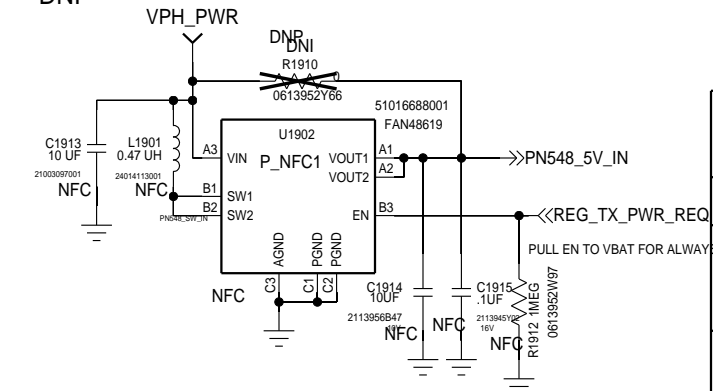
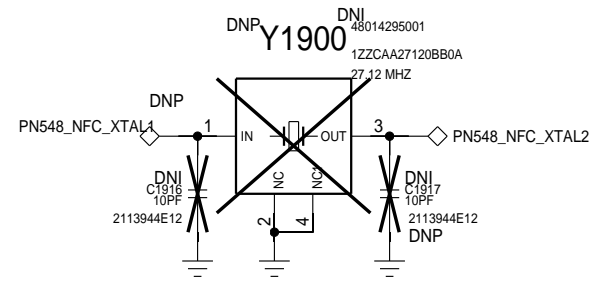
### PN548 I2C ADDRESS MAP

HIF2	HIF1	WRITE	READ
LOW	LOW	0X50	0X51
LOW	HIGH	0X52	0X53
HIGH	LOW	0X54	0X55
HIGH	HIGH	0X56	0X57

ALL ADDRESSES OK VS BUNKER HILL M2

REFERENCE DESIGNATOR    27.12 MHZ CRYSTAL OSCILLATOR    19.2 MHZ EXTERNAL CLOCK

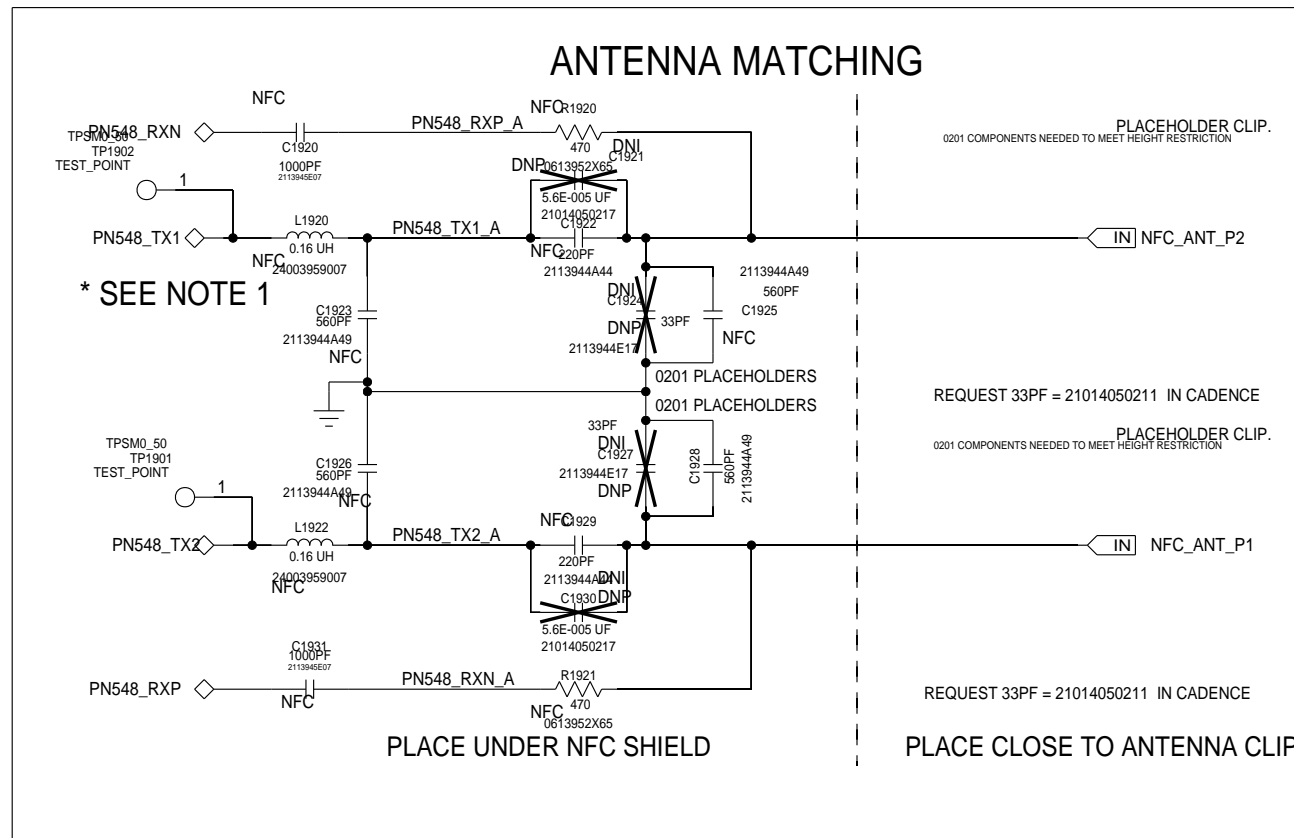
C1916	PLACE	DNI
C1917	PLACE	DNI
R1902	DNI	PLACE
Y1900	PLACE	DNI



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: <b>connectivity_bb</b>	
LAST MODIFIED BY: Wed Nov 23 09:44:57 2016		PROJECT NAME 84016642001_11_1122.cpm	REV 01
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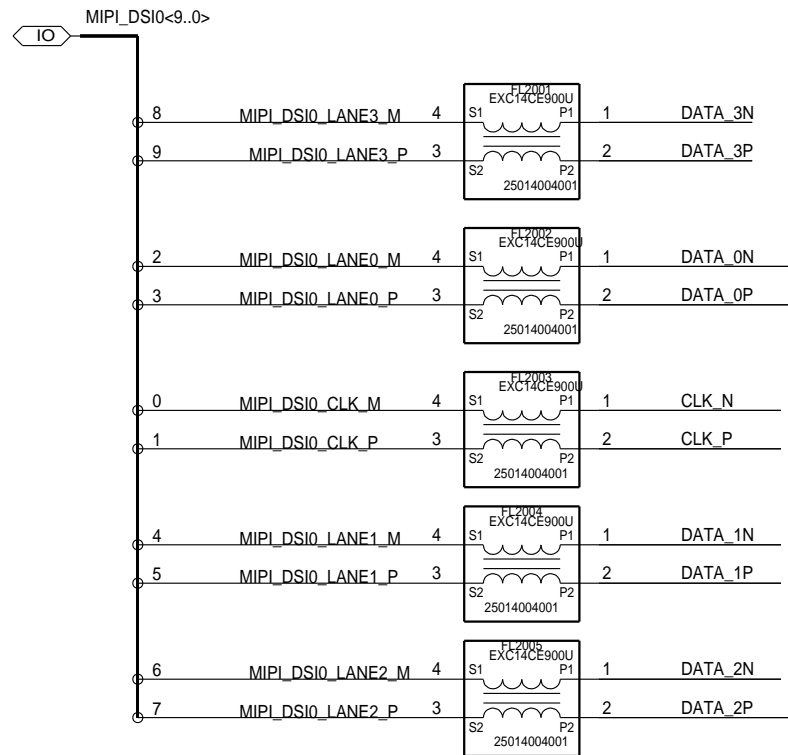
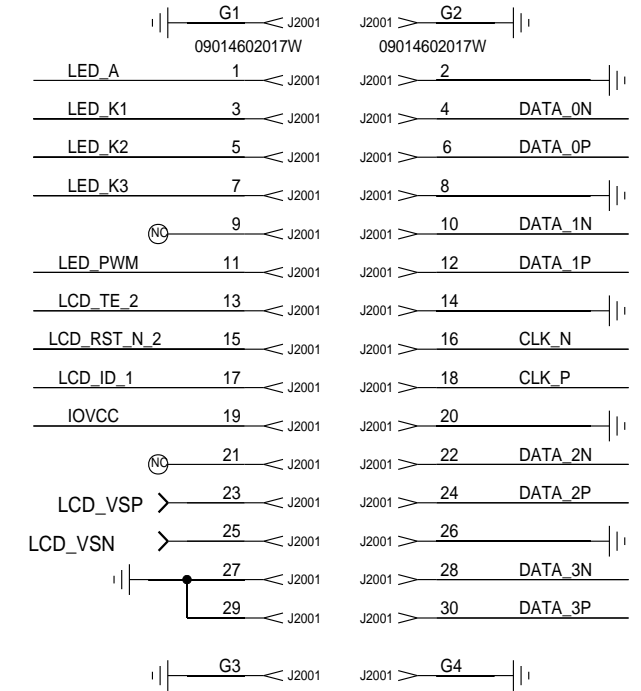
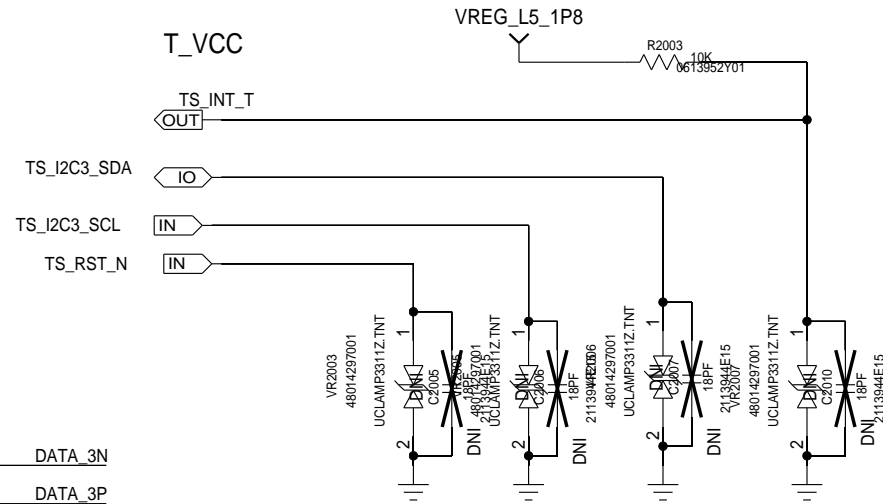
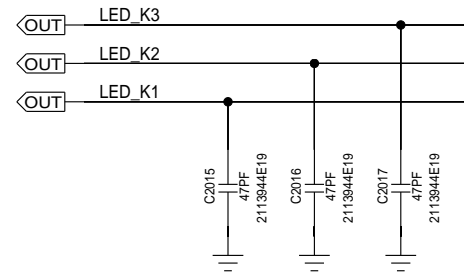
# 1920:NXP NFC ANT Match

## REF 1920-1939

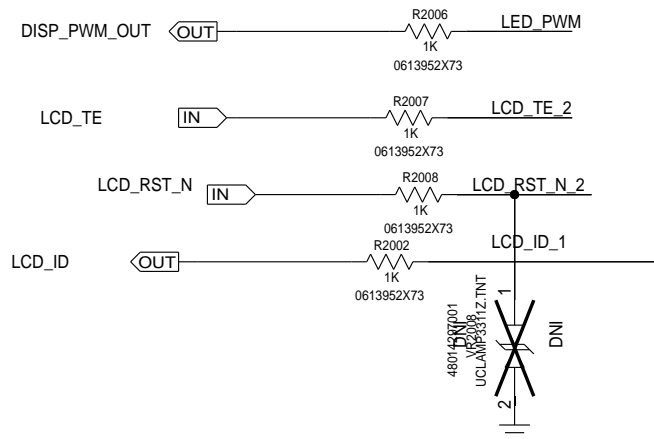
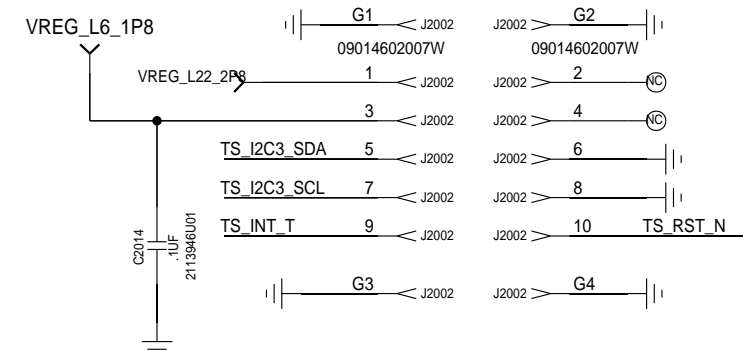
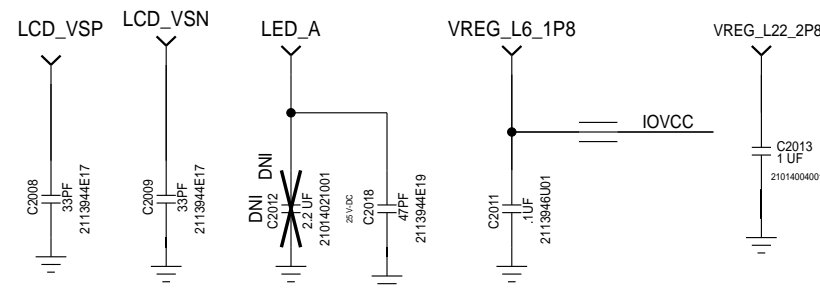


APPROVALS	 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:	BLOCK TITLE:	
LAST MODIFIED BY:	<b>connectivity_bb</b>	
Wed Nov 23 09:45:09 2016	PROJECT NAME	REV
MOTOROLA CONFIDENTIAL RESTRICTED	B 84016642001_11_1122.cpm	01
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	PAGE 30 OF 56	

# 2000:LCD REF 2000-2049



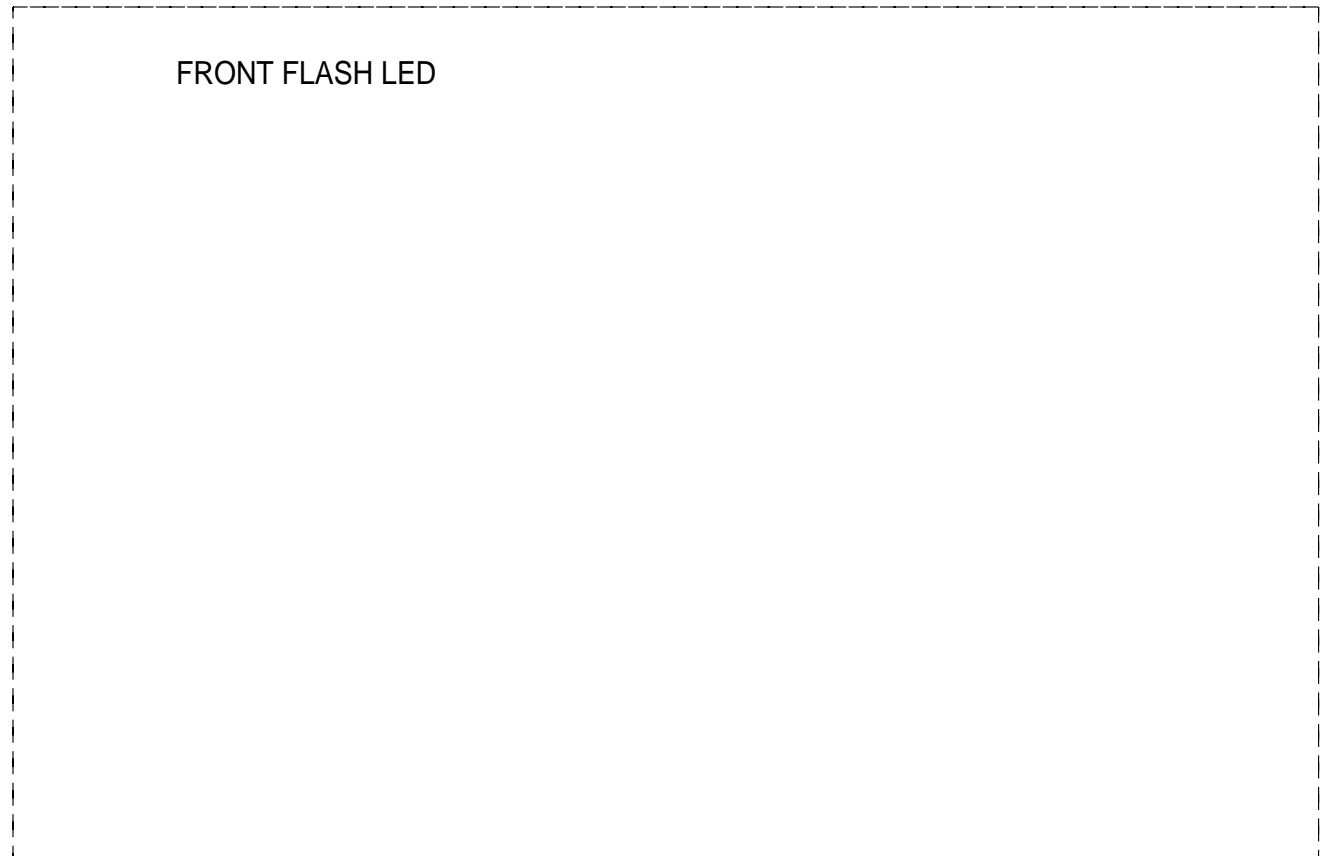
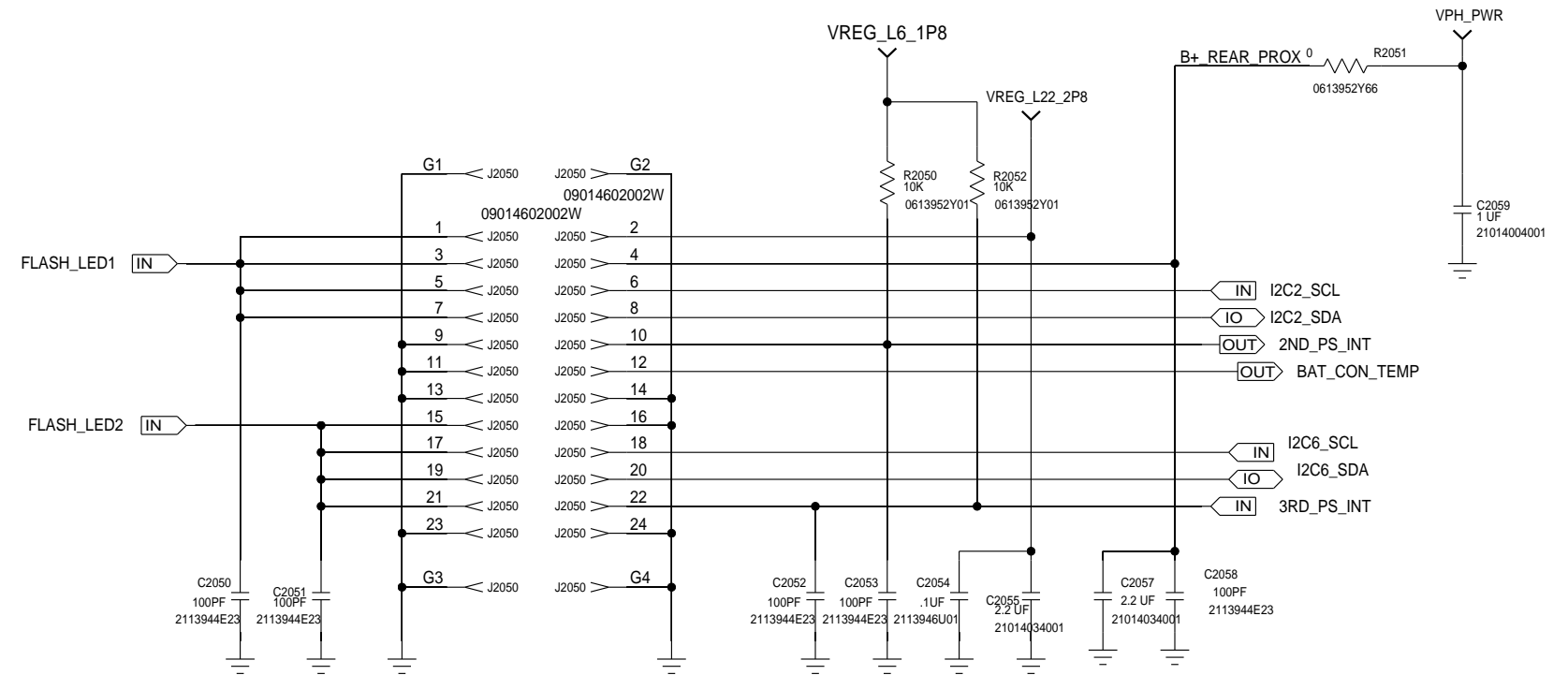
TP: S3203 I2C ADD:0X20; WRITE:0X40; READ: 0X41



APPROVALS			
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:12 2016		multimedia	
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		CAD FILE NAME:	PAGE 31 OF 56

# 2050:LASER FOCUS & FLASH CONN

## REF 2050-2069

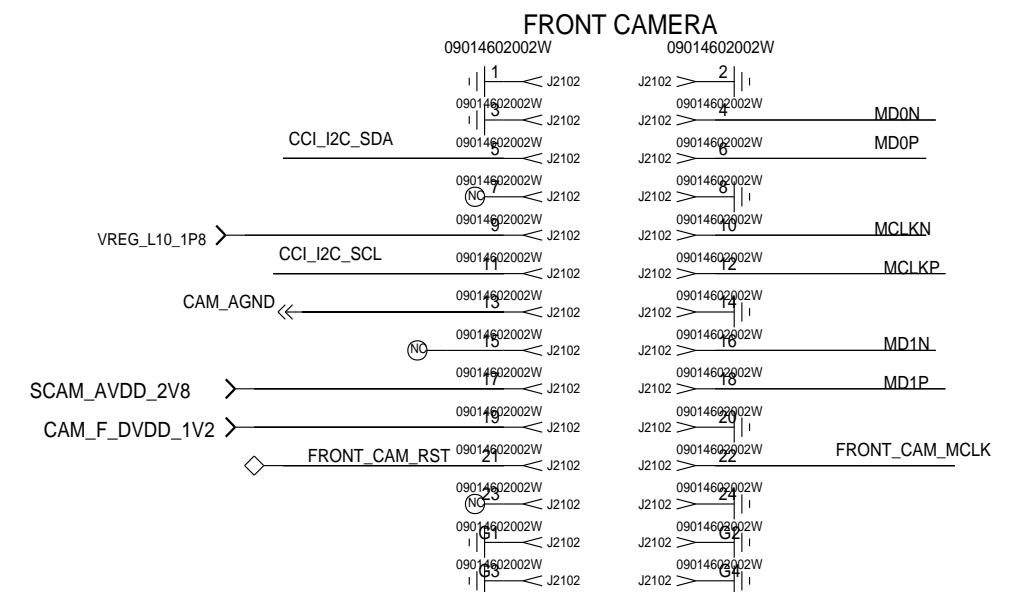
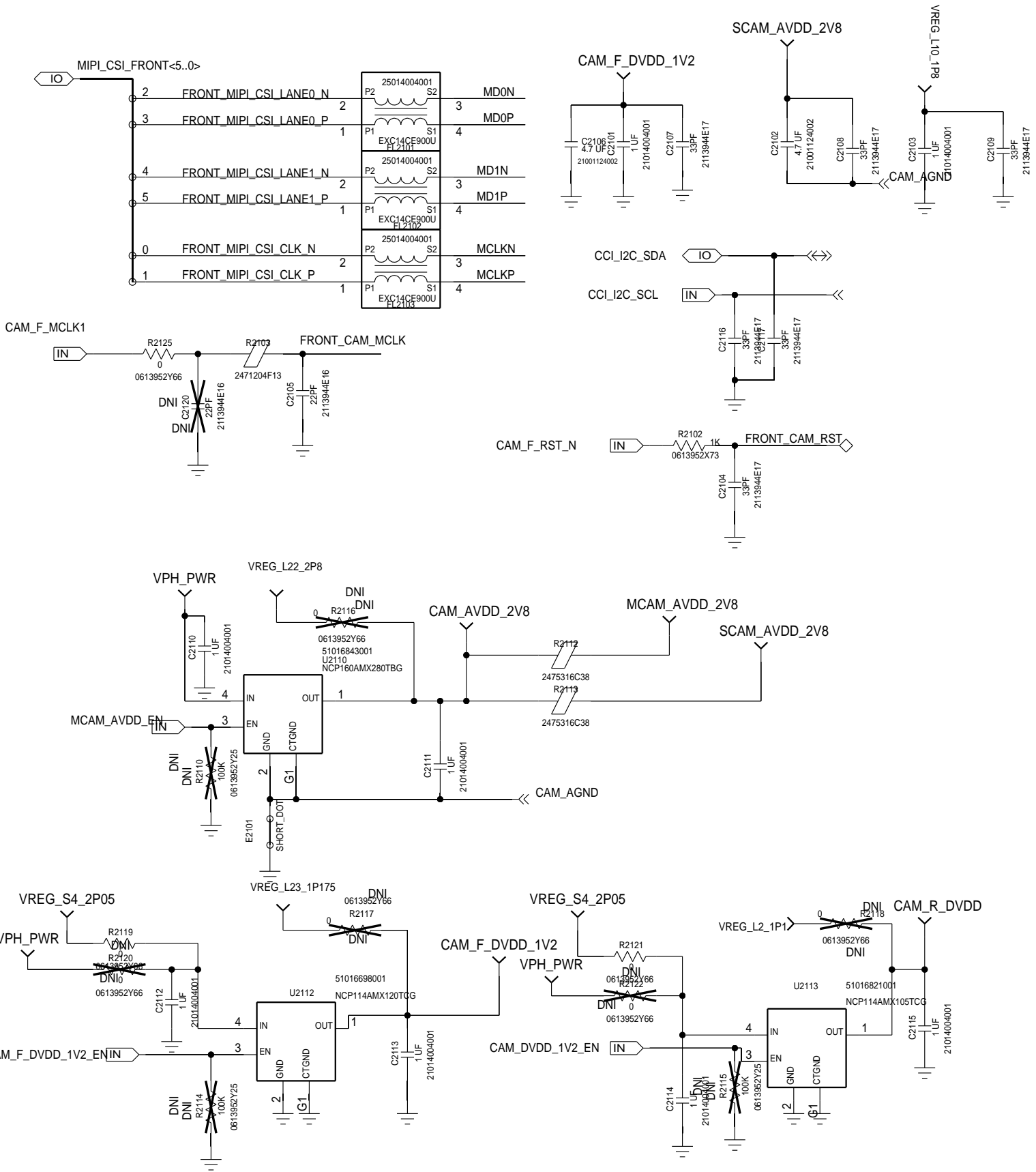


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:22 2016		multimedia	
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		B 84016642001_11_1122.cpm	01
		CAD FILE NAME:	
		PAGE 32 OF 56	



# 2100:FRONT camera

## REF 2100-2149



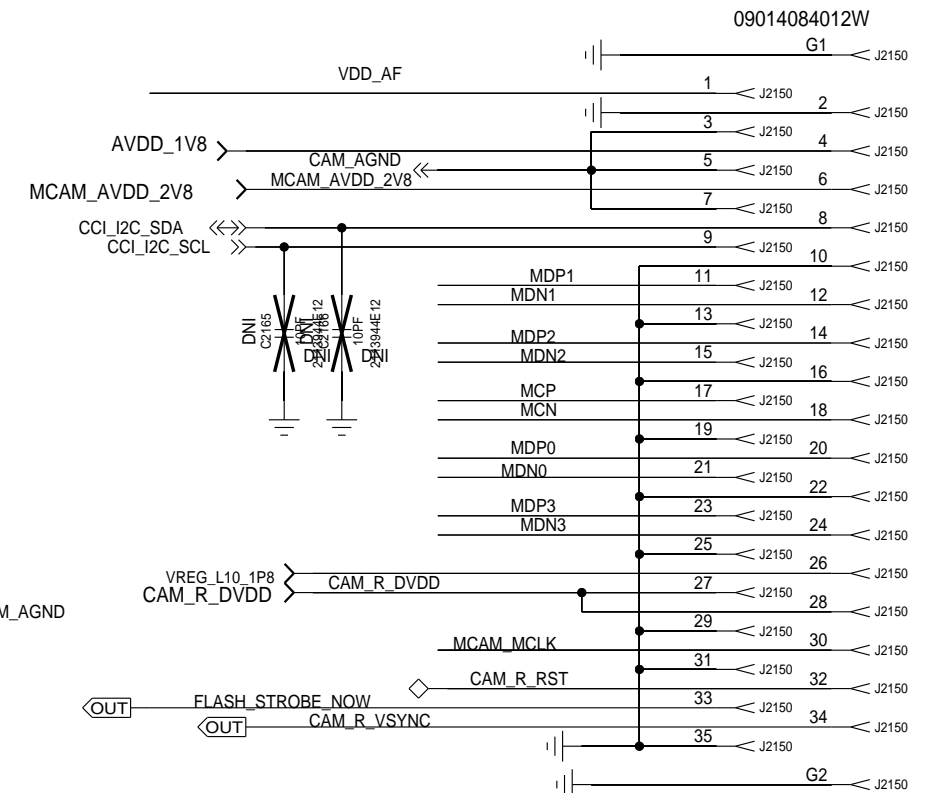
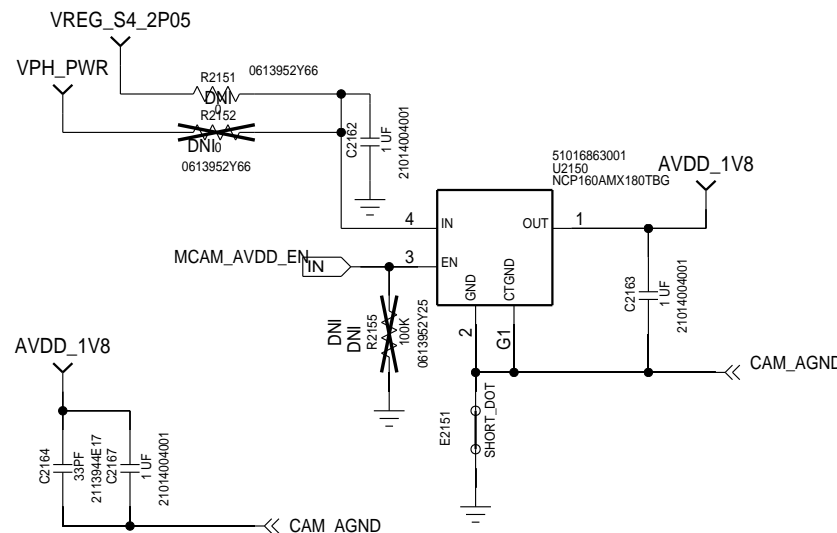
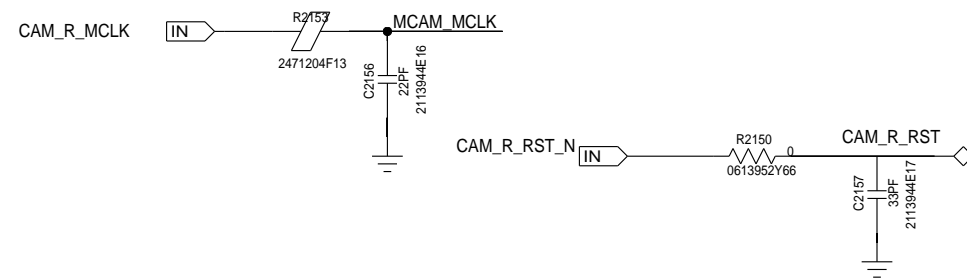
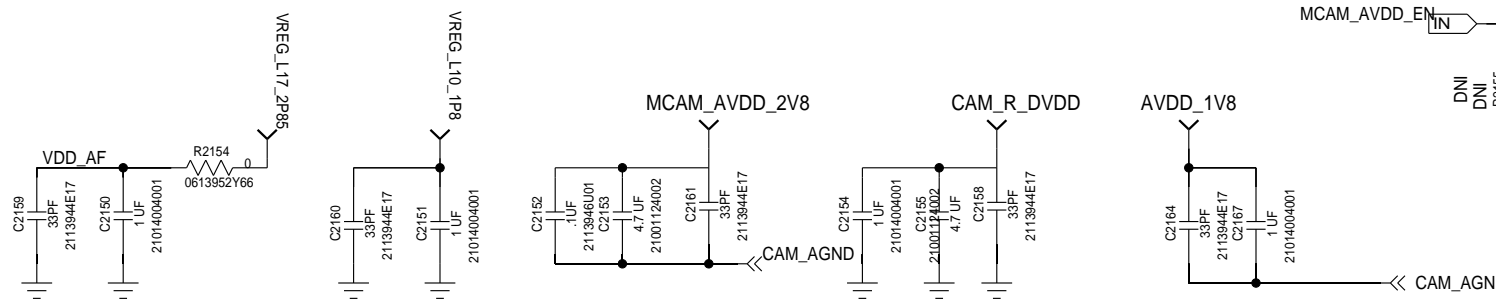
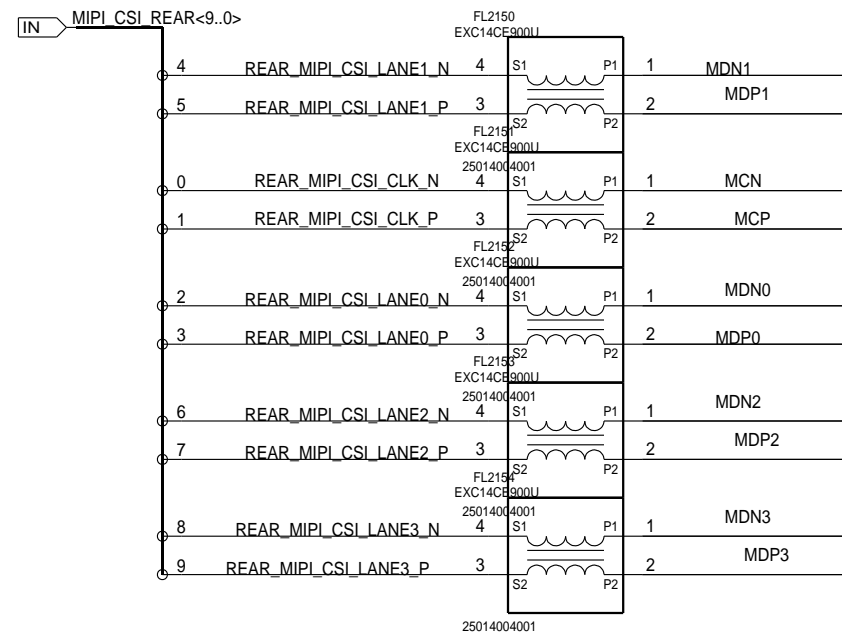
FRONT CAMERA SENSOR:OV5695  
I2C ADDRESS: 0X10 WRITE: 0X20 ; READ: 0X21

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		<b>multimedia</b>	
Wed Nov 23 09:45:16 2016		PROJECT NAME	REV
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# 2150:REAR CAMERA

## REF 2150-2199

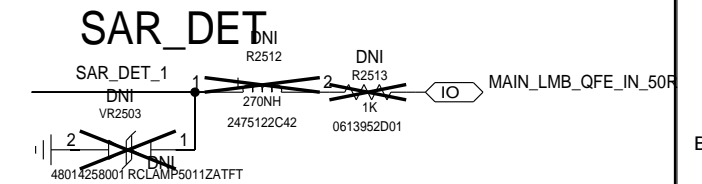
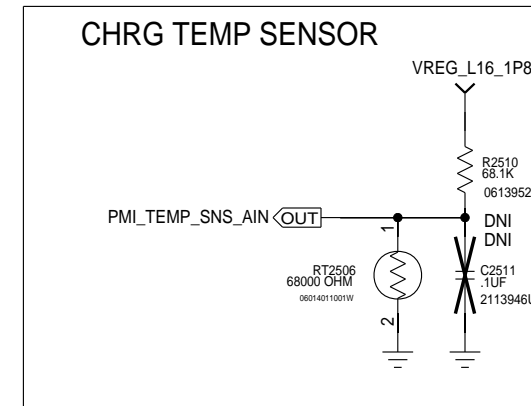
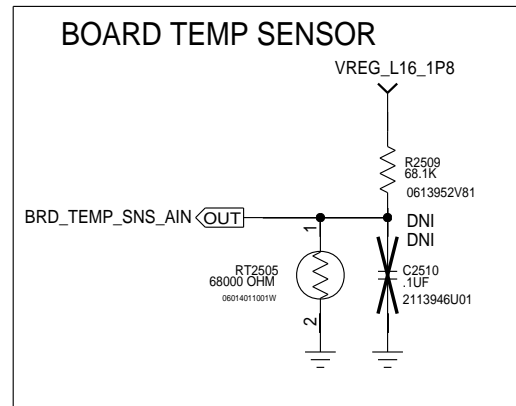
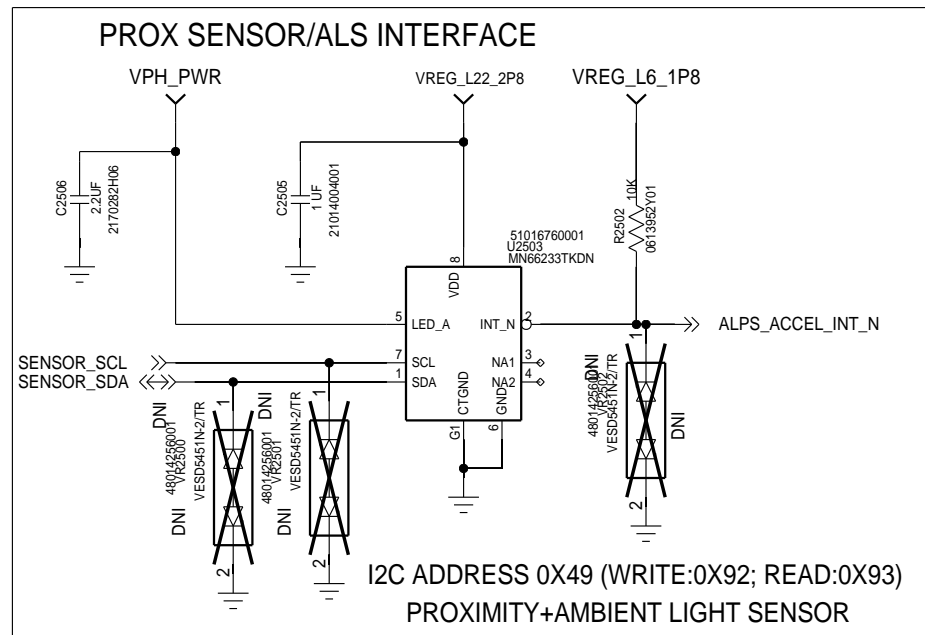
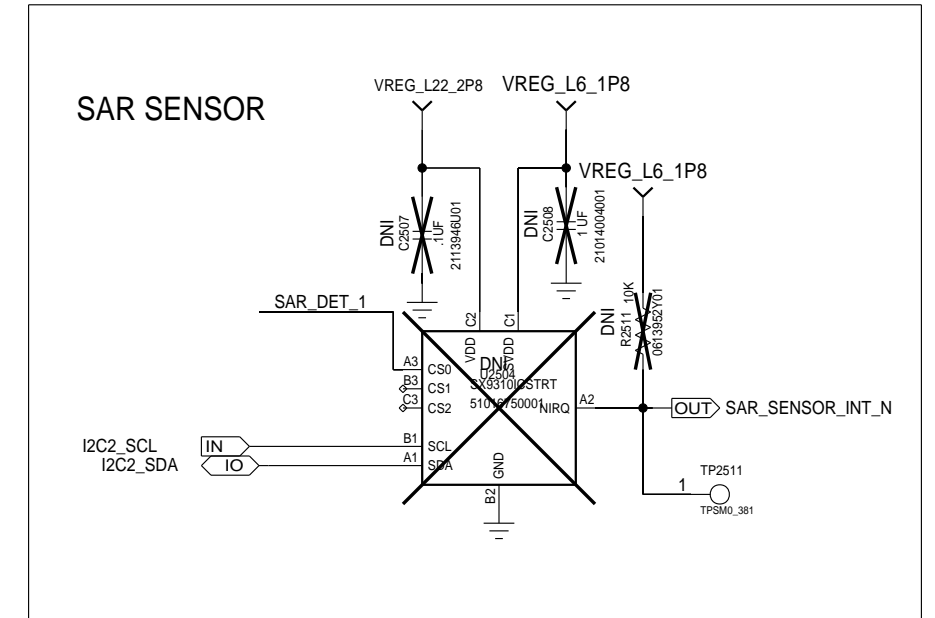
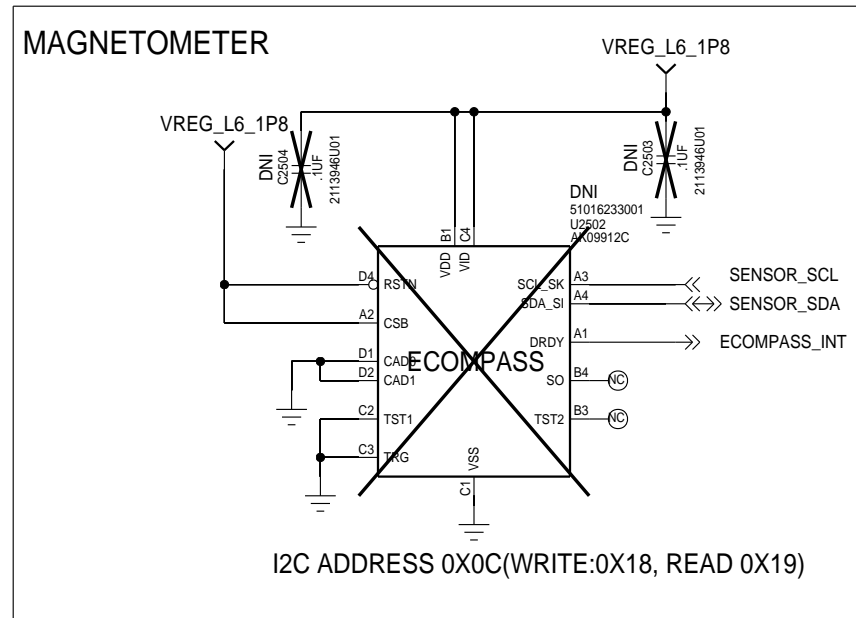
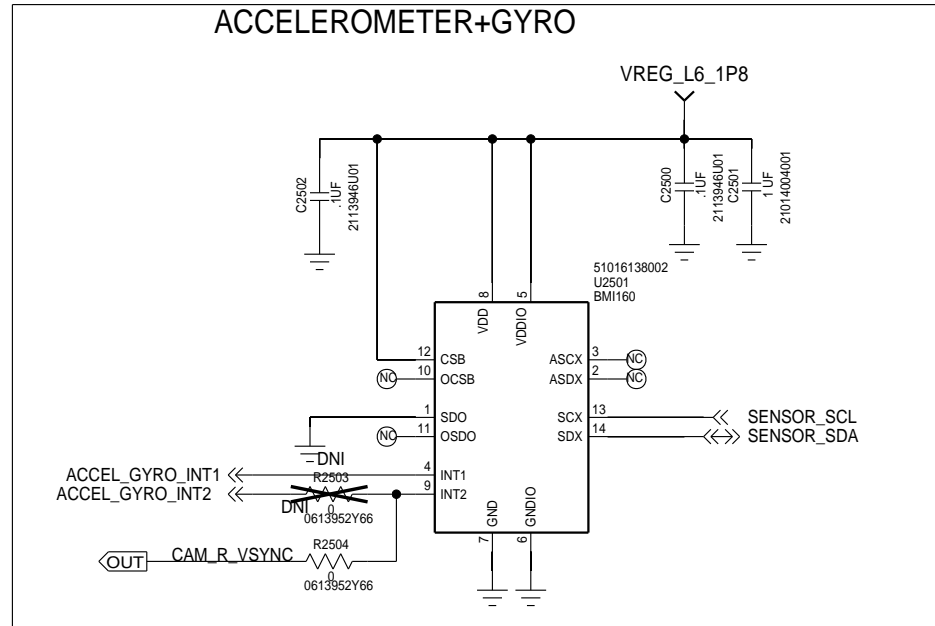
Information Item	Desc	Remark
1	Vendor referenece schematic of sensor	IMX362_COB_DS_1.0_Primax
2	Power voltage	AVDD:2.8 ± 0.1 V DVDD:1.05 ± 0.1 DOVDD:1.8 ± 0.1 AFVCC:2.6~3.6V
3	I2C Address:	Sensor:0X20 (W),0X21 (R) Driver:0XE4 (W),0XE5 (R) EEPROM:0XA0 (W),0XA1 (R)



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: <b>multimedia</b>	
LAST MODIFIED BY: Wed Nov 23 09:45:19 2016		PROJECT NAME B 84016642001_11_1122.cpm	REV 01
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# 2500:sensor

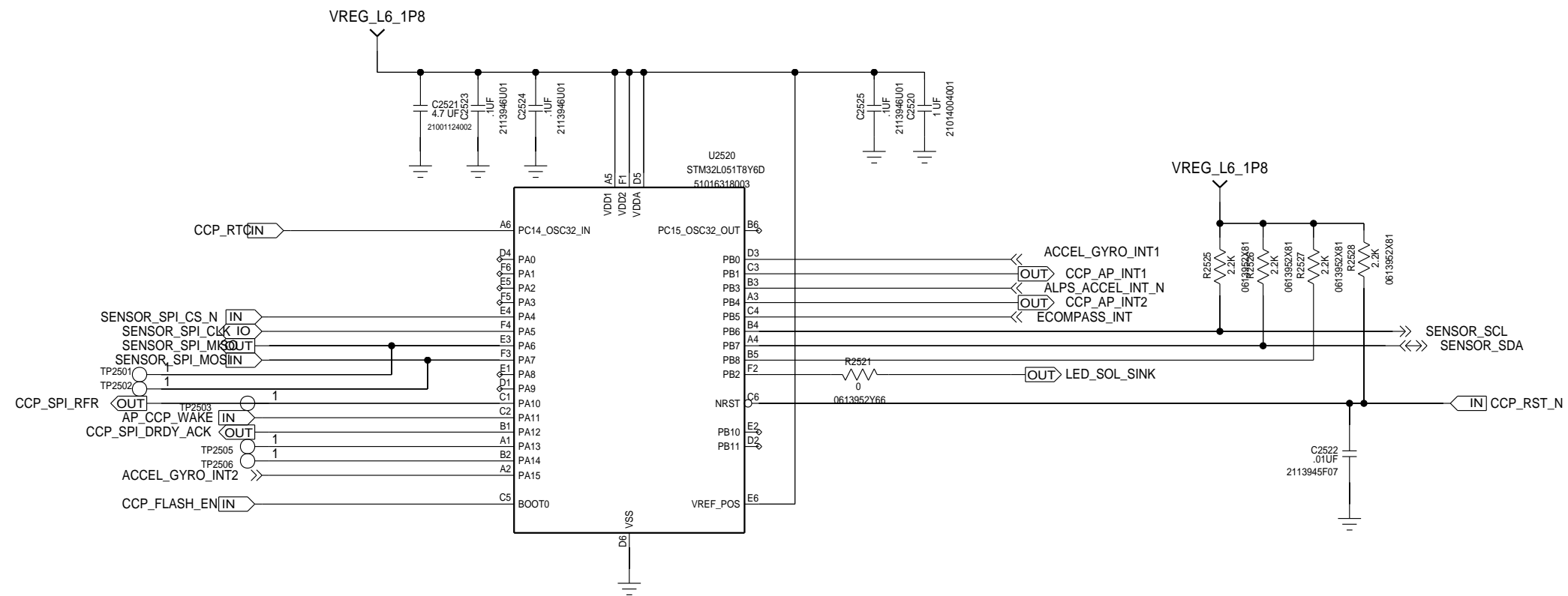
## REF 2500-2519



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		<b>xmcs</b>	
Wed Nov 23 09:45:26 2016		PROJECT NAME	
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		CAD FILE NAME:	
		REV 01	
		PAGE 35 OF 56	

# 2520:CCP

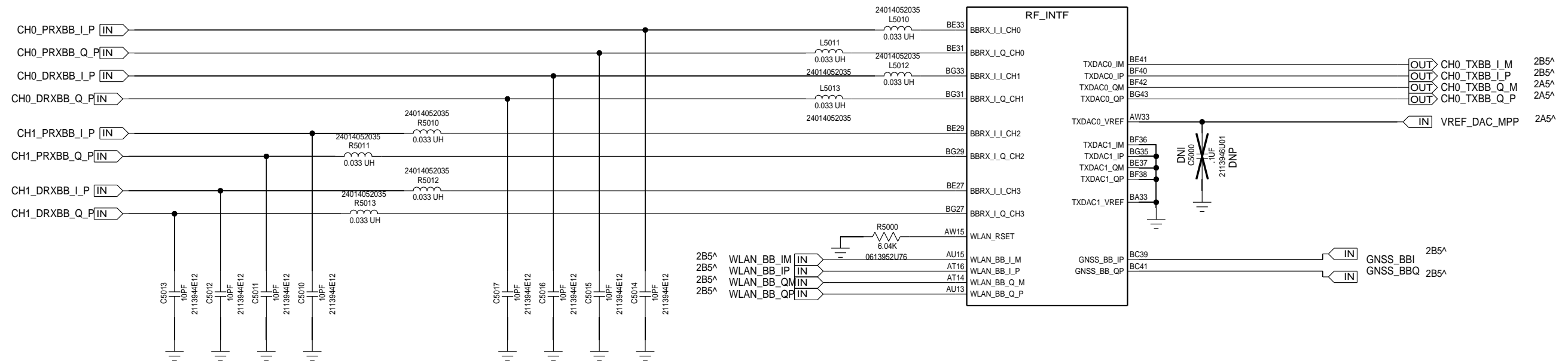
## REF 2520-2539



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:29 2016		<b>xmcs</b>	
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		B 84016642001_11_1122.cpm	
		REV 01	
		CAD FILE NAME:	
		PAGE 36 OF 56	

5000:rf interface  
REF 5000-5499

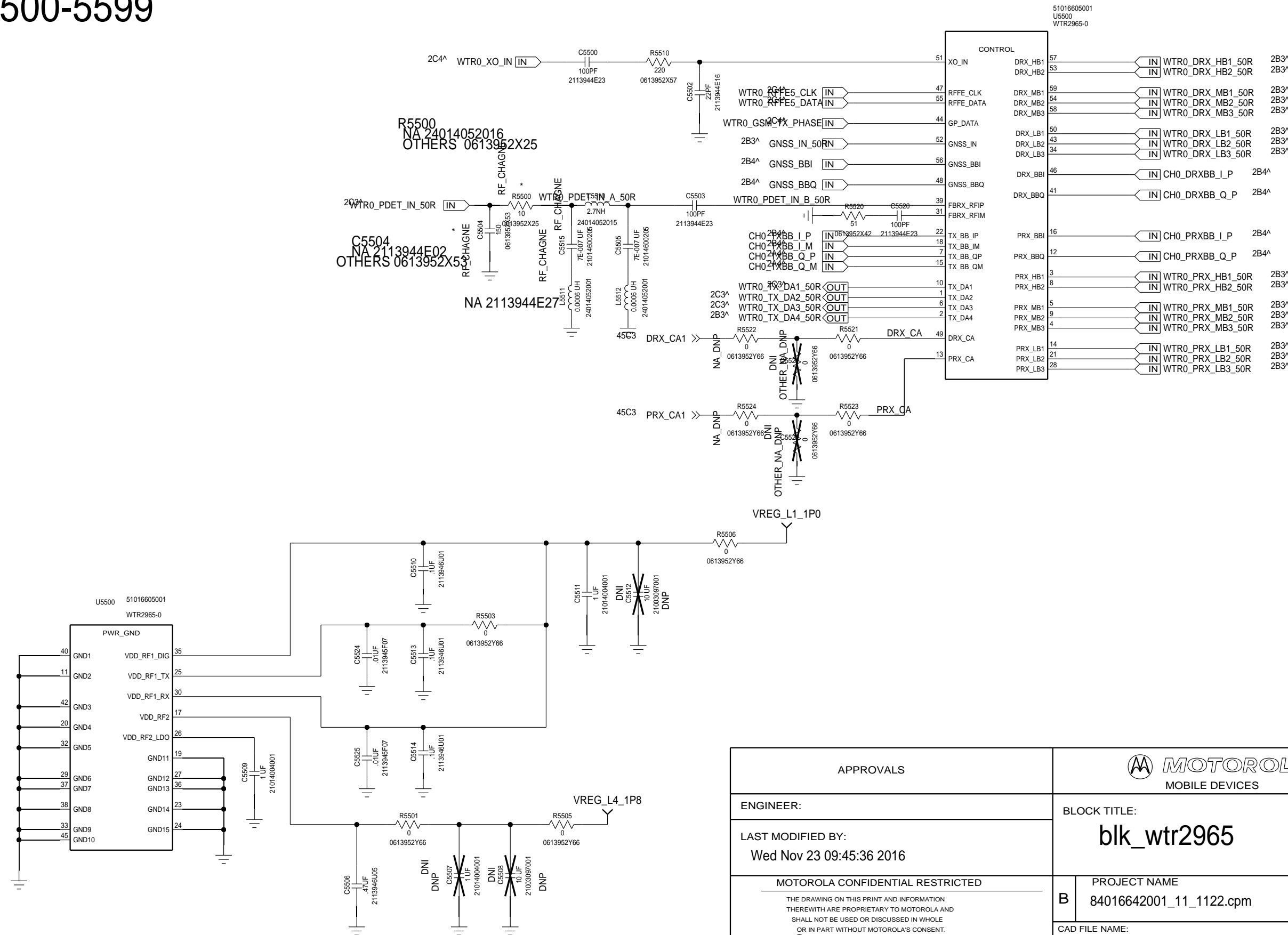
MSM8916 RF INTERFACE



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:32 2016		rf_intf	
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		CAD FILE NAME:	
		PAGE 37 OF 56	

5500:wtr2965-0  
REF 5500-5599

WTR4905 CONTROL,PWR&GND

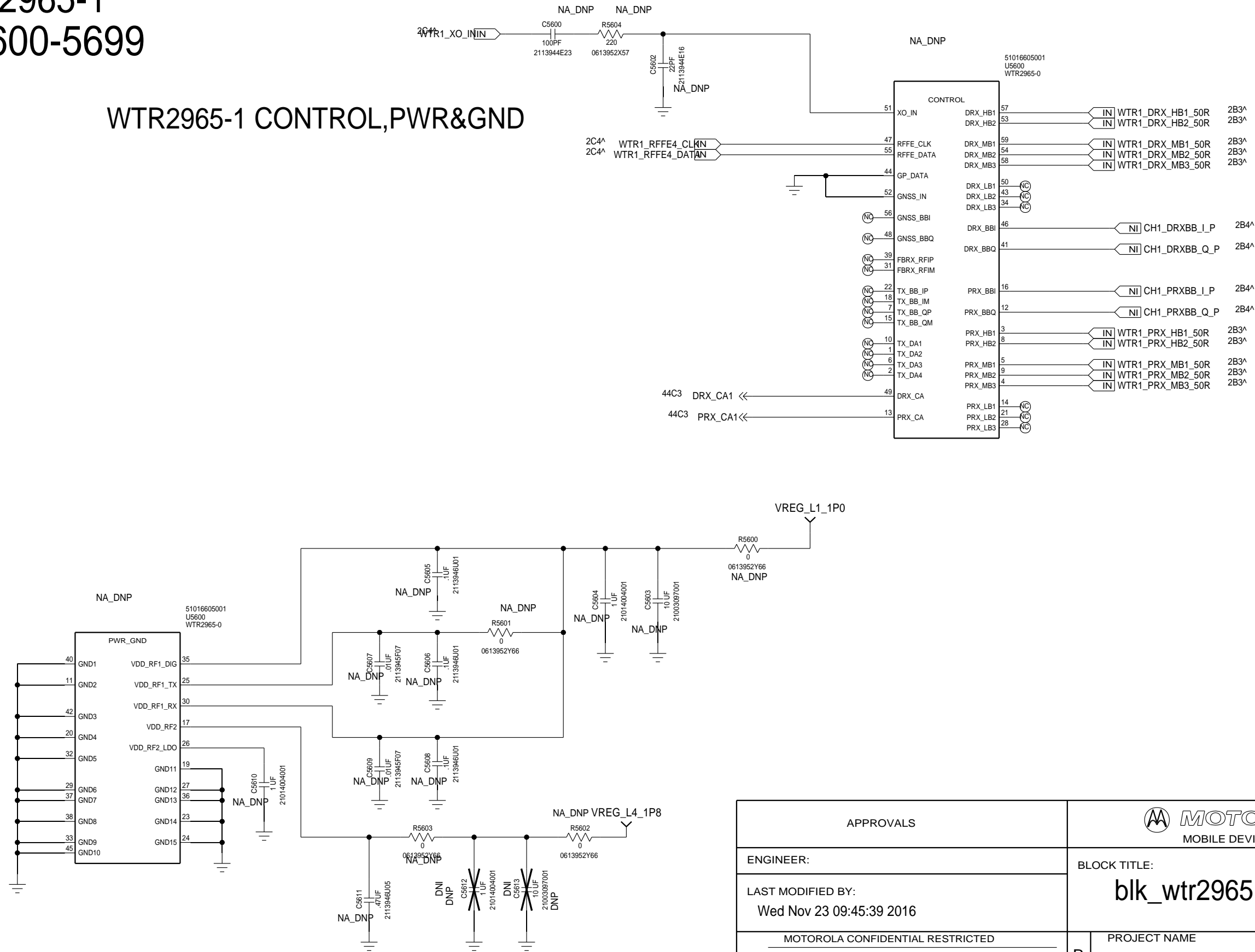


APPROVALS	
ENGINEER:	
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 <b>MOTOROLA</b> MOBILE DEVICES	
BLOCK TITLE: <b>blk_wtr2965</b>	
PROJECT NAME	REV
B 84016642001_11_1122.cpm	01
CAD FILE NAME:	
PAGE 38 OF 56	

5600:wtr2965-1  
REF 5600-5699

WTR2965-1 CONTROL,PWR&GND

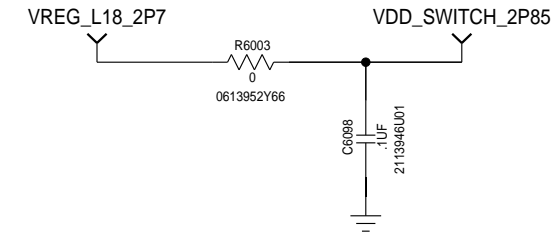
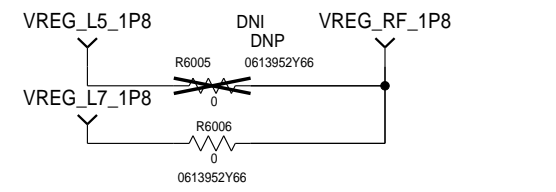
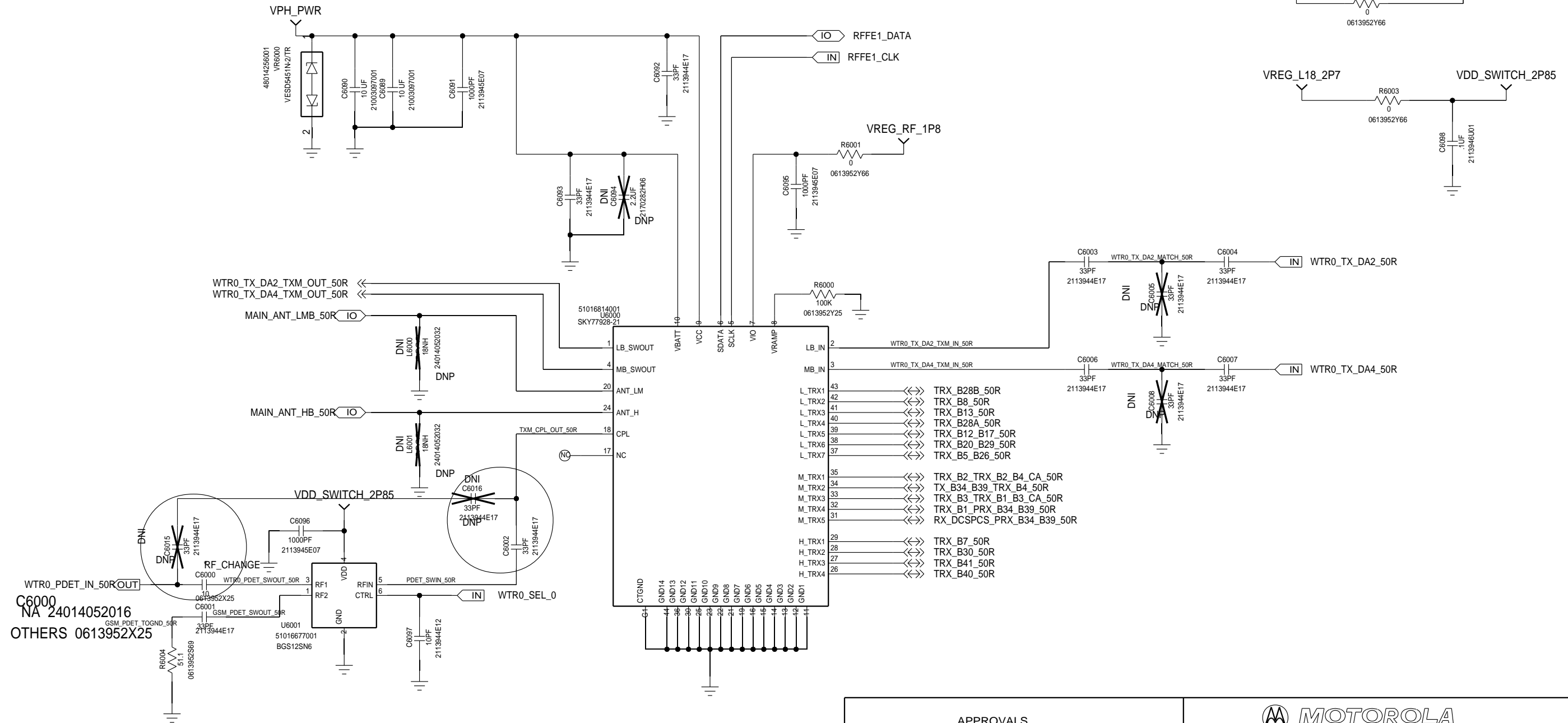


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		blk_wtr2965	
Wed Nov 23 09:45:39 2016		PROJECT NAME	
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		CAD FILE NAME:	
		PAGE 39 OF 56	

# TXM\_SKY77928-21

## REF 6000-6099

# TXM\_SKY77928-21

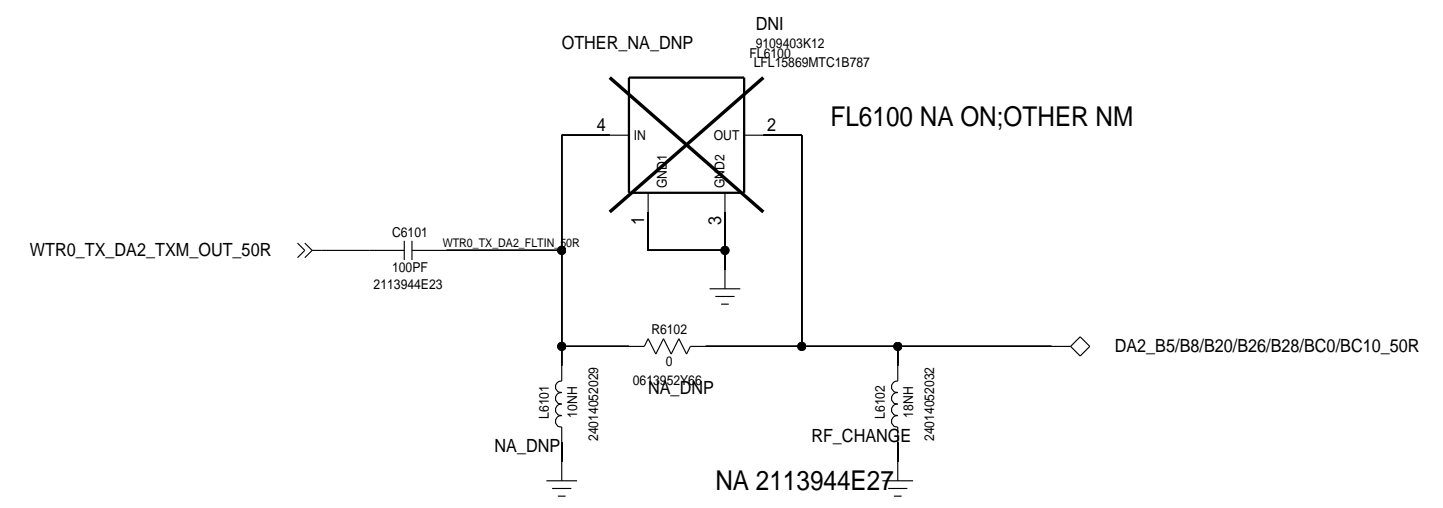
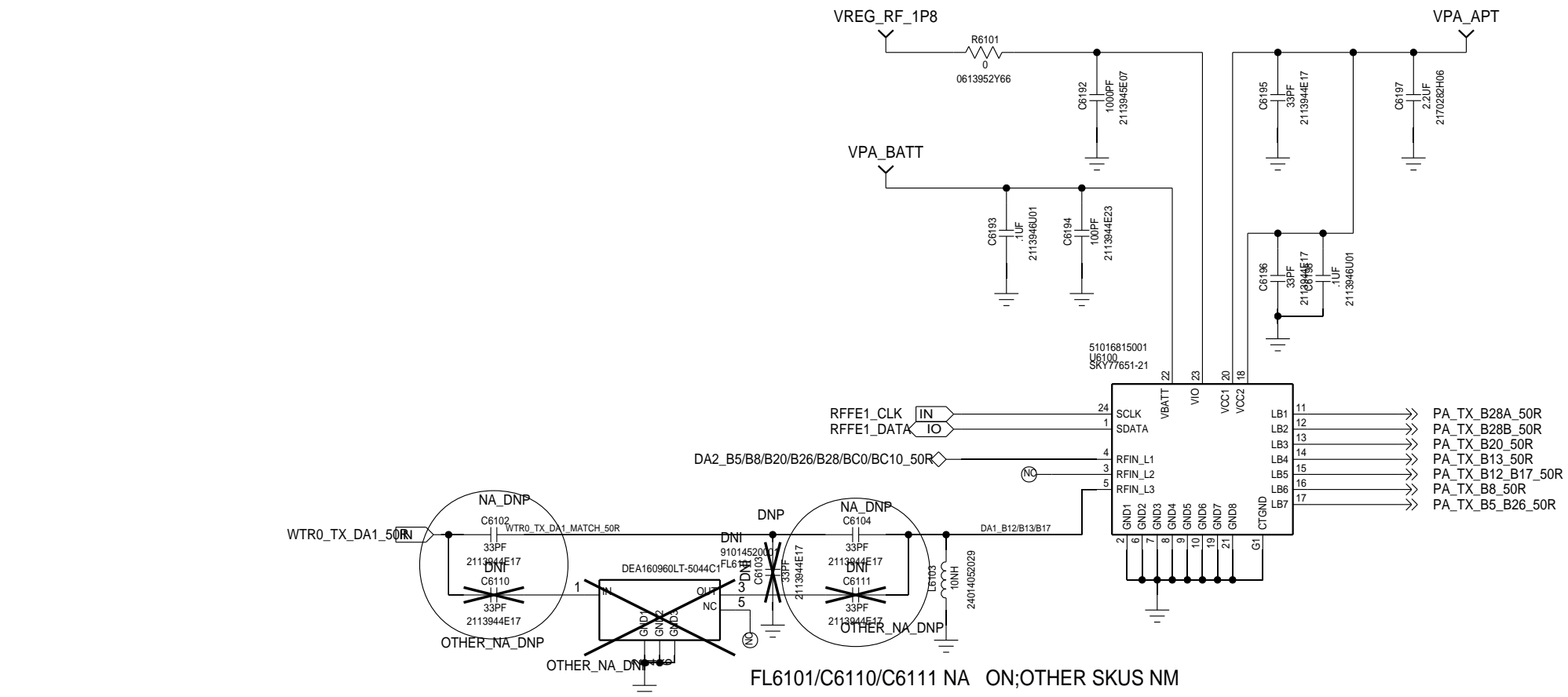


APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:50 2016		<b>rfe</b>	
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		CAD FILE NAME:	PAGE 40 OF 56



PA\_SKY77651-21  
REF 6100-6199

PA\_SKY77651-21

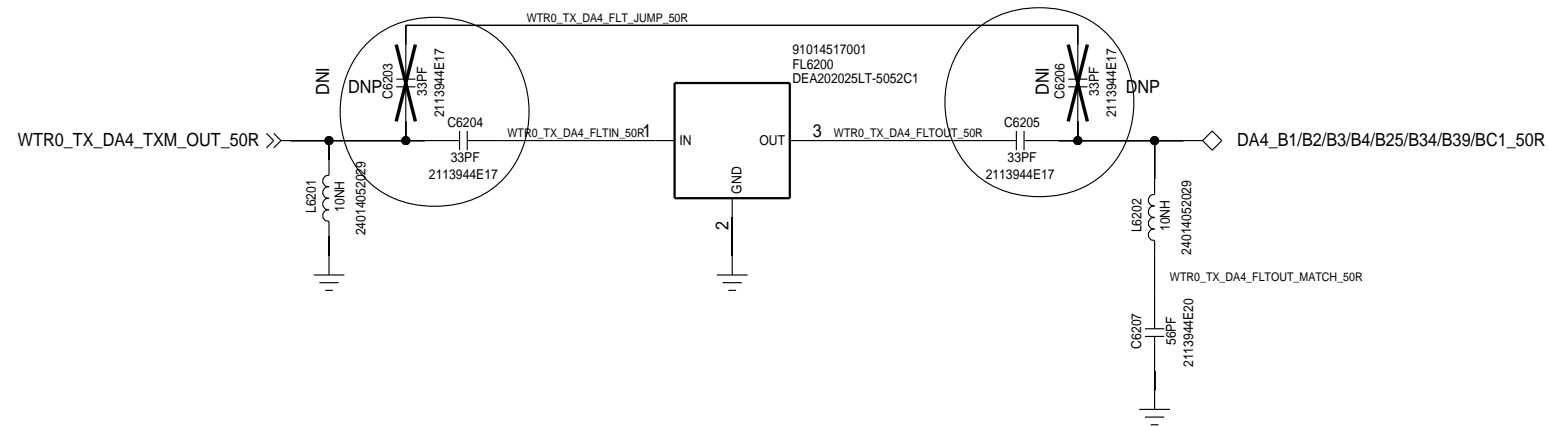
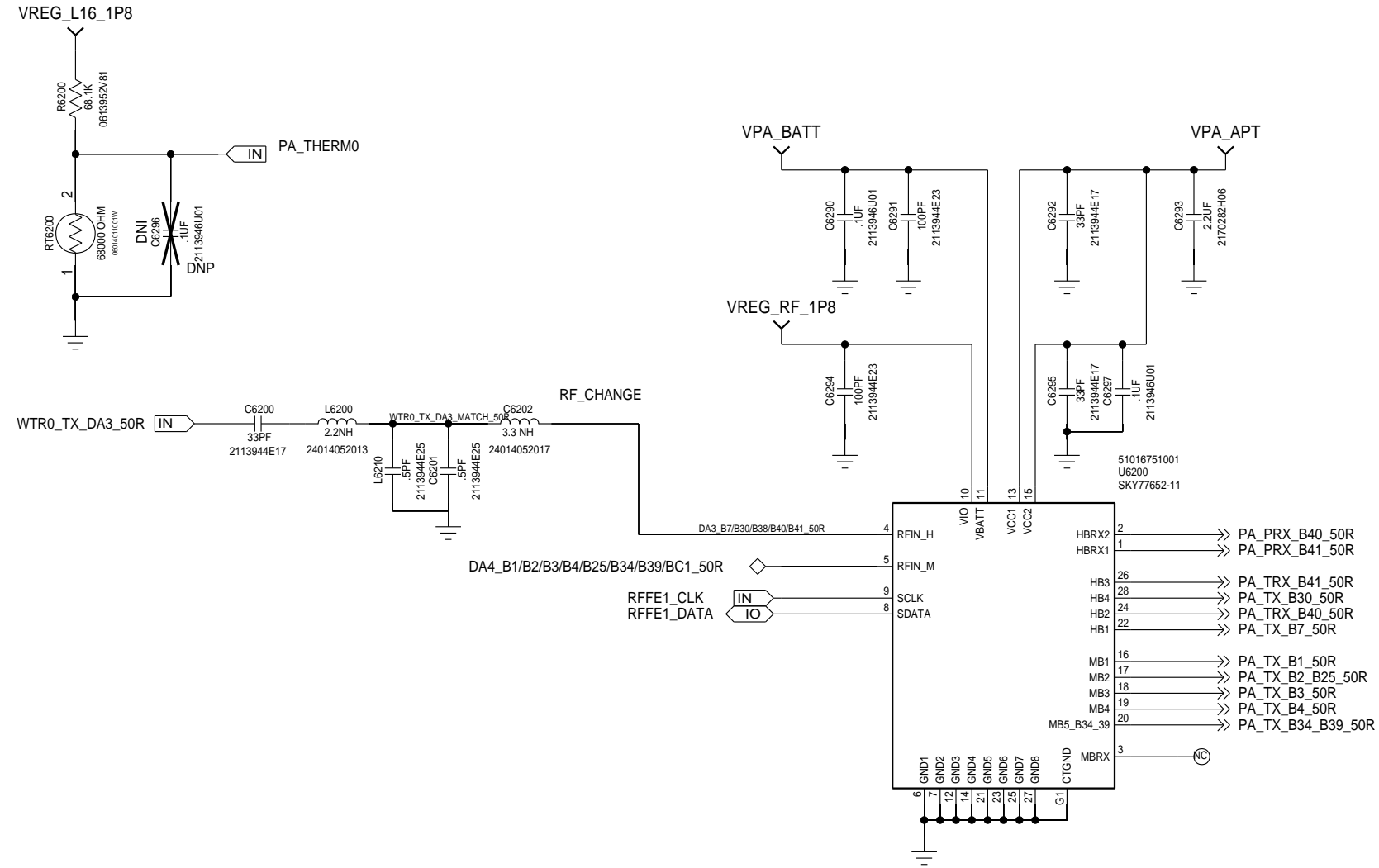


APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:47 2016		rfe	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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CAD FILE NAME:		PAGE 41 OF 56	

# PA\_SKY77652-11

## REF 6200-6299

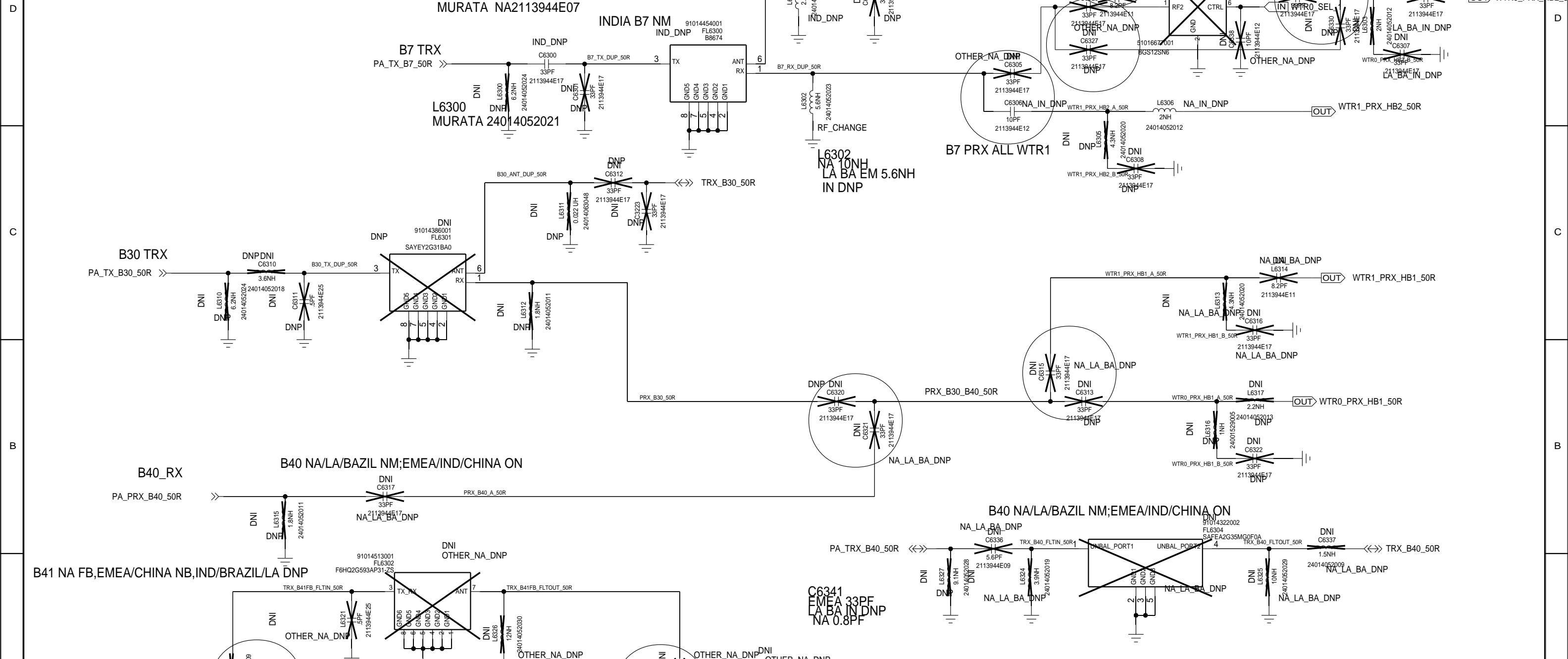
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APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		<b>rfe</b>	
Wed Nov 23 09:46:03 2016			
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		REV	
		01	
		PAGE 42 OF 56	

# HB\_TRX\_B7,38,40,41 REF 6300-6399

## HB\_TRX

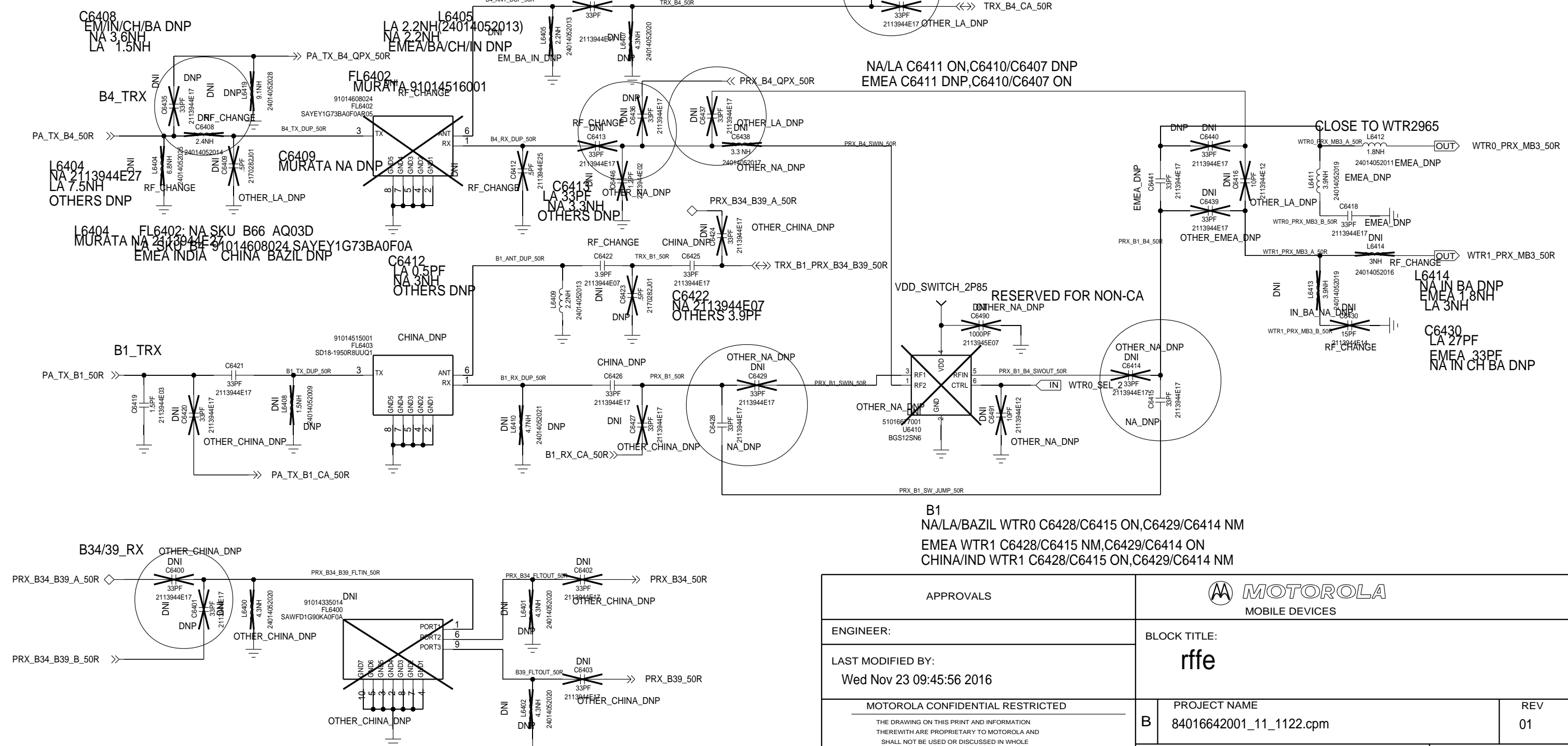


<b>APPROVALS</b>		<b>MOTOROLA</b> MOBILE DEVICES	
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LAST MODIFIED BY: Wed Nov 23 09:46:06 2016		PROJECT NAME: 84016642001_11_1122.cpm	
MOTOROLA CONFIDENTIAL RESTRICTED		REV 01	
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PAGE 43 OF 56			

# MB\_TRX\_B1,4,34,39

## REF 6400-6499

### MB\_TRX



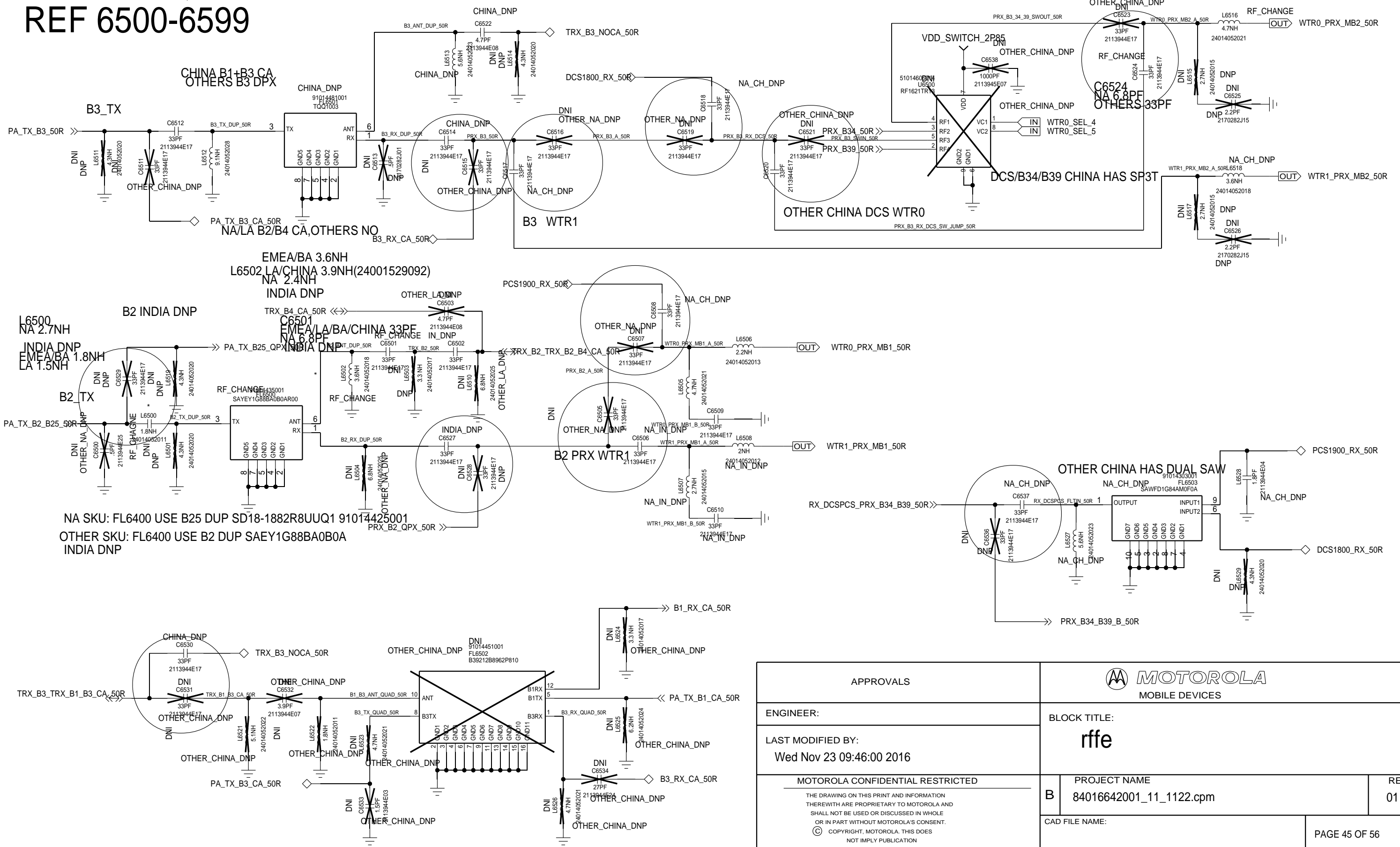
**B1**  
 NA/LA/BAZIL WTR0 C6428/C6415 ON,C6429/C6414 NM  
 EMEA WTR1 C6428/C6415 NM,C6429/C6414 ON  
 CHINA/IND WTR1 C6428/C6415 ON,C6429/C6414 NM

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: <b>rfe</b>	
LAST MODIFIED BY: Wed Nov 23 09:45:56 2016		PROJECT NAME 84016642001_11_1122.cpm	
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		PAGE 44 OF 56	

IT IS NOT CORRECT PART NUMBER,JUST REMAIN FOR PCB AREA AND TRACE.

# MB\_TRX\_B2,3 REF 6500-6599

L6516  
NA 8.2NH  
OTHERS 4.7NH

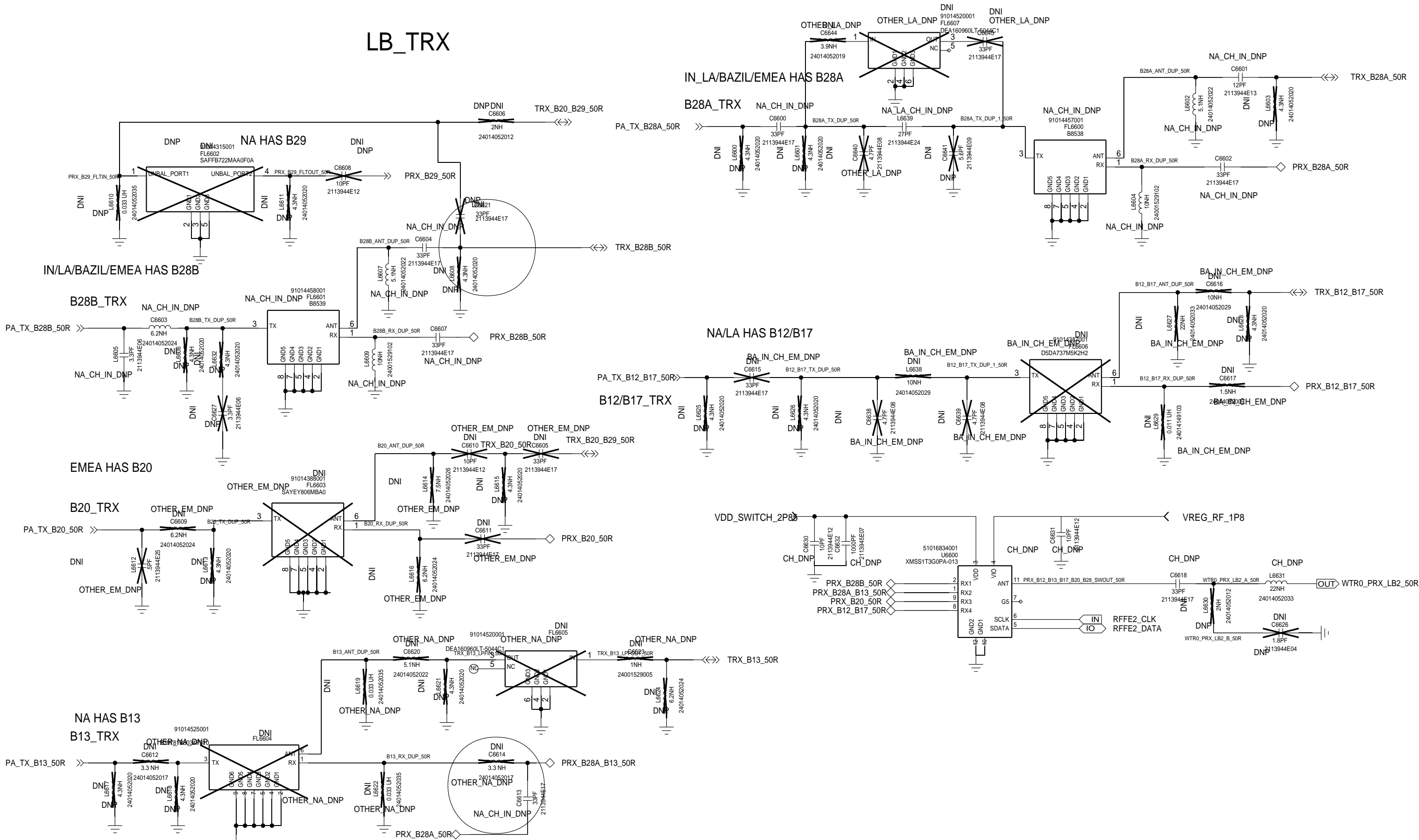


L6500  
INDIA DNP  
EMEA/BA 1.8NH  
LA 1.5NH

NA SKU: FL6400 USE B25 DUP SD18-1882R8UUQ1 91014425001  
OTHER SKU: FL6400 USE B2 DUP SAEY1G88BA0B0A  
INDIA DNP

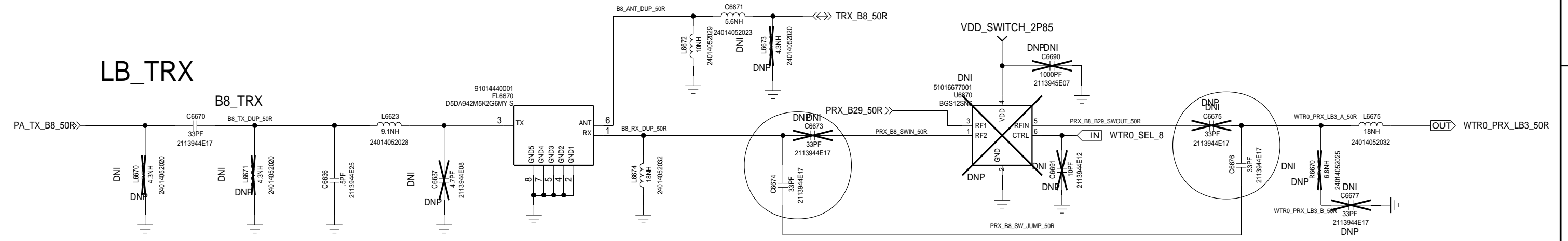
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ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:46:00 2016		rfe	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		PAGE 45 OF 56	

# LB\_TRX



# LB\_TRX\_B5,8

## REF 6670-6699



LB\_TRX

B8\_TRX

FL6671: NA & CHINA SKU B26 91014507001 D5DA876M5K2P6  
 OTHER SKU B5 91014608014 SAYEY836MBA0F0A

B5\_B26\_TRX

NA 2113944E25  
 OTHERS 2.2PF

NA 24014052007

NA 24014052029

L6682  
 NA 10NH  
 OTHERS 7.5NH

C6680  
 NA 33PF  
 OTHERS 56PF

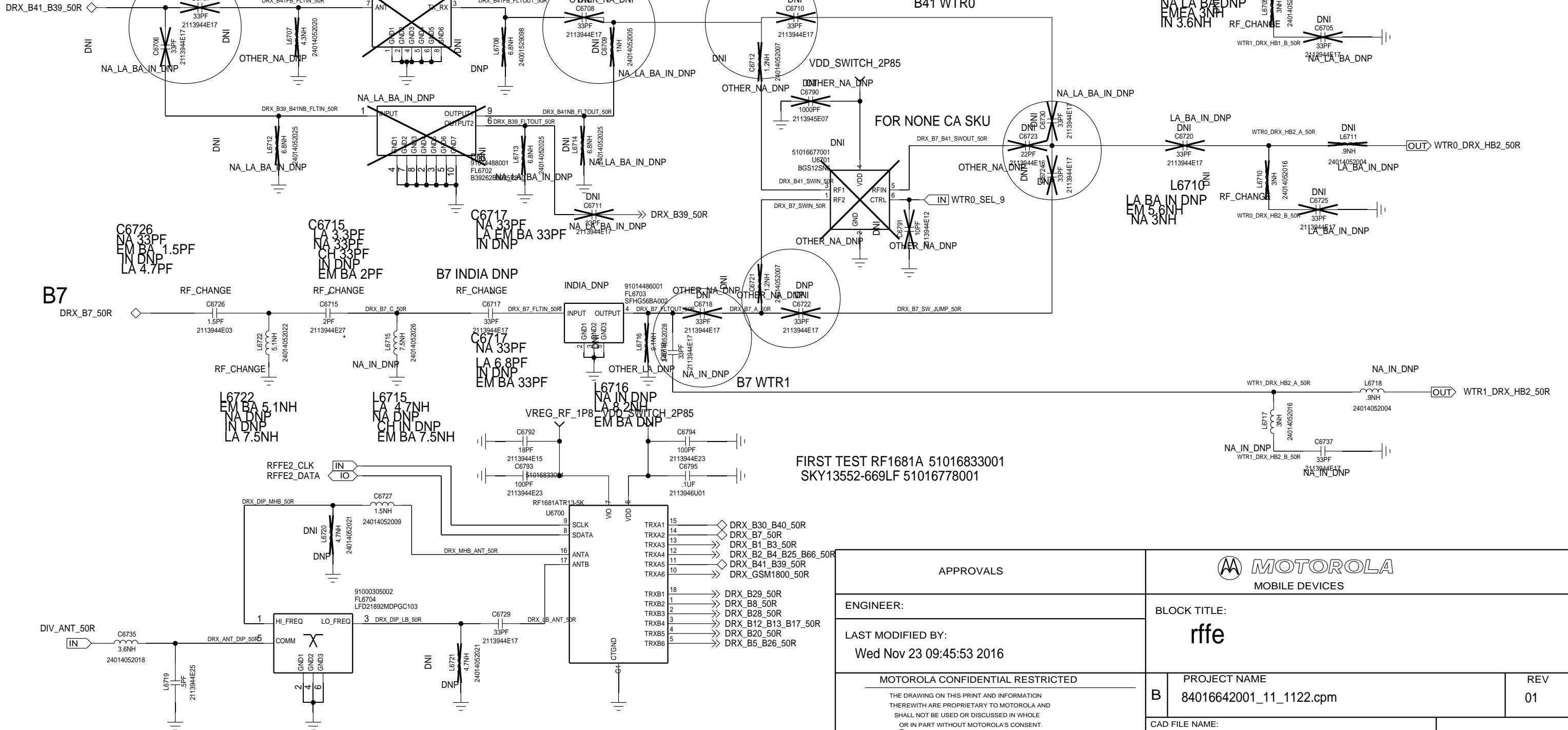
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LAST MODIFIED BY: Wed Nov 23 09:46:15 2016		<b>rfe</b>	
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		B 84016642001_11_1122.cpm	01
CAD FILE NAME:		PAGE 47 OF 56	

# HB\_DRX\_B7,30,38,40,41

## REF 6700-6799

### HB\_DRX

### B41 OR B38



FIRST TEST RF1681A 51016833001  
SKY13552-669LF 51016778001

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: <b>rfe</b>	
LAST MODIFIED BY: Wed Nov 23 09:45:53 2016		PROJECT NAME 84016642001_11_1122.cpm	
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		PAGE 48 OF 56	



# MB\_DRX\_B1,2,3,4,25,34,39

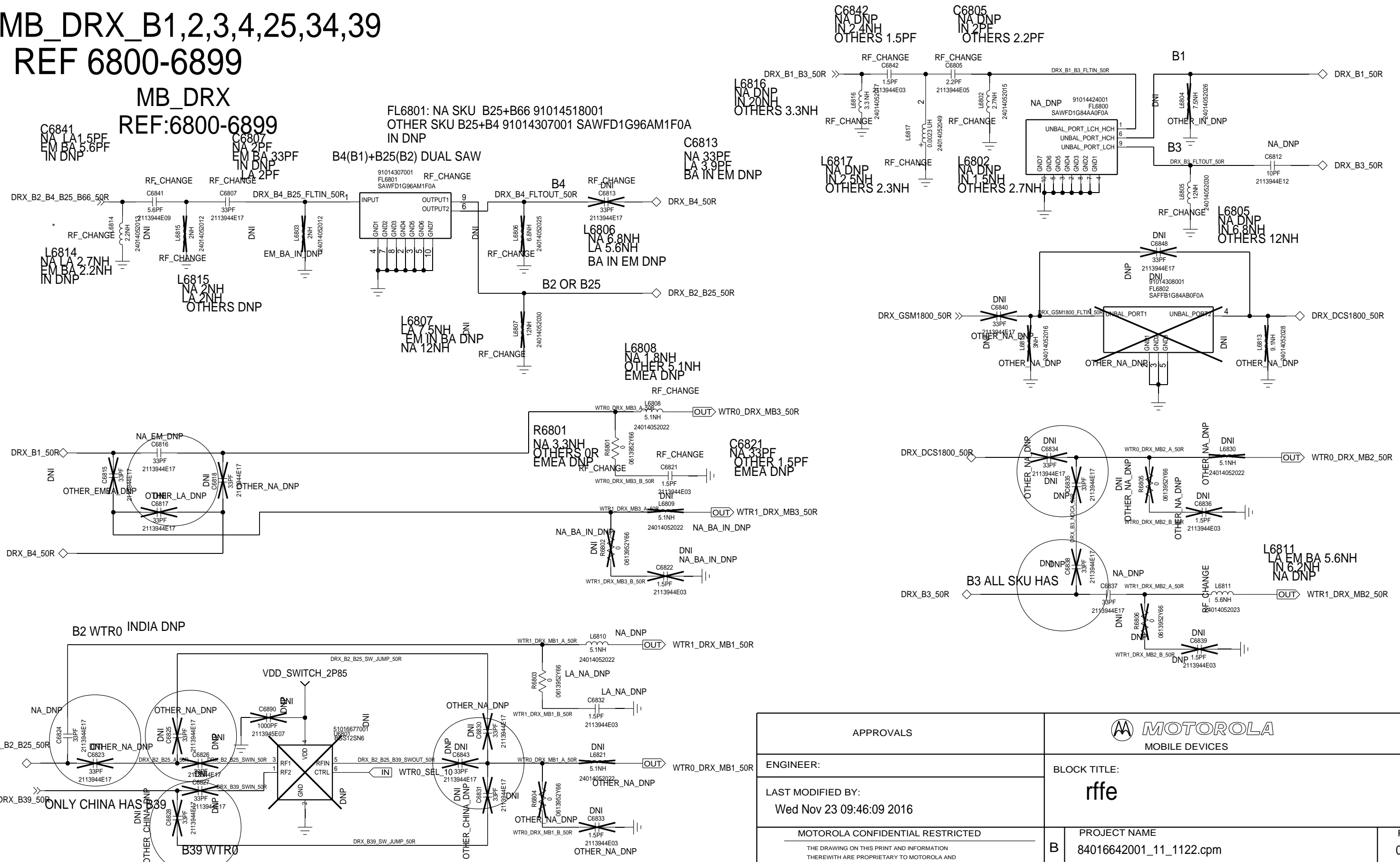
## REF 6800-6899

### MB\_DRX

#### REF:6800-6899

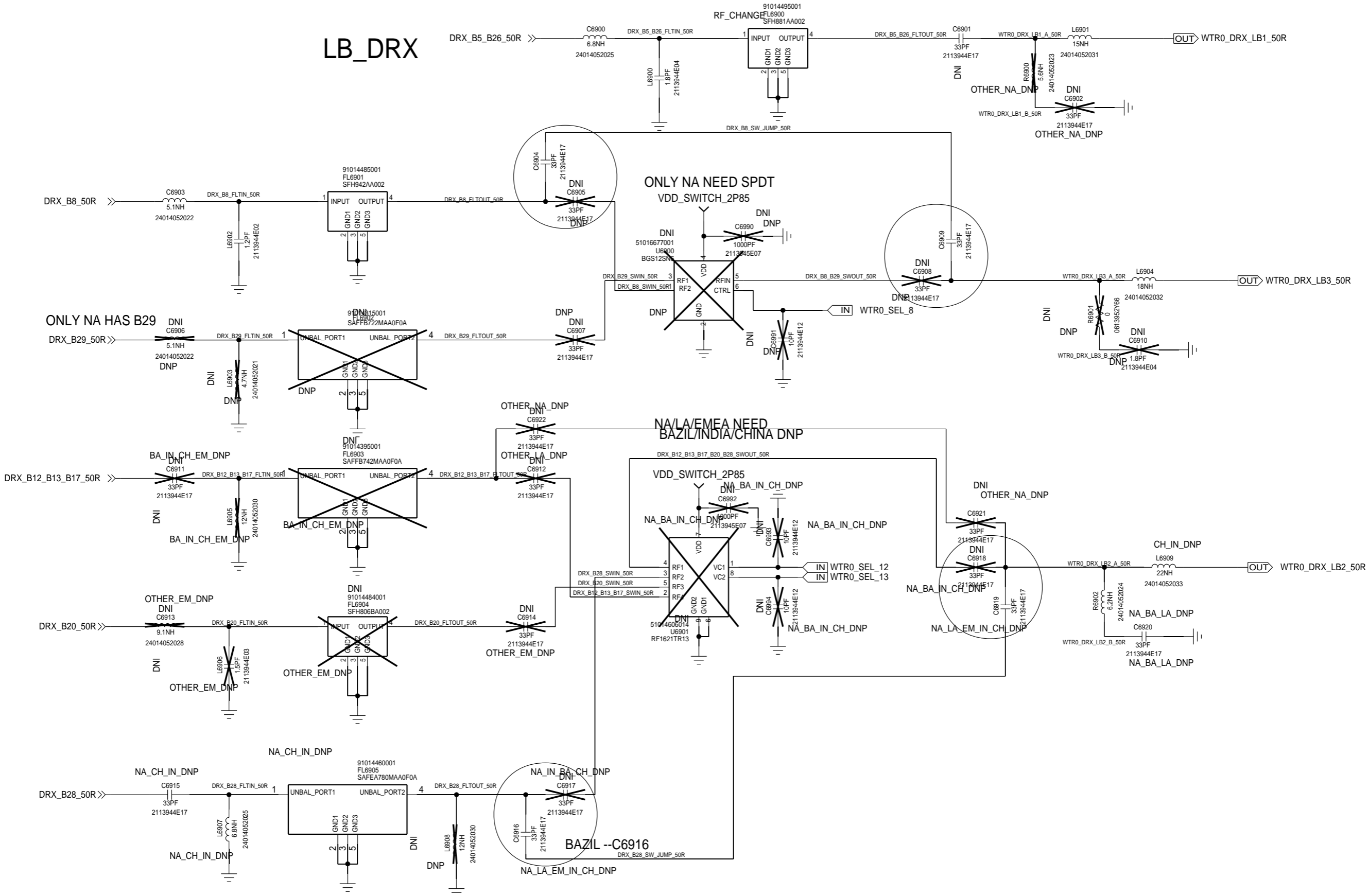
FL6801: NA SKU B25+B66 91014518001  
 OTHER SKU B25+B4 91014307001 SAWFD1G96AM1F0A  
 IN DNP

B4(B1)+B25(B2) DUAL SAW



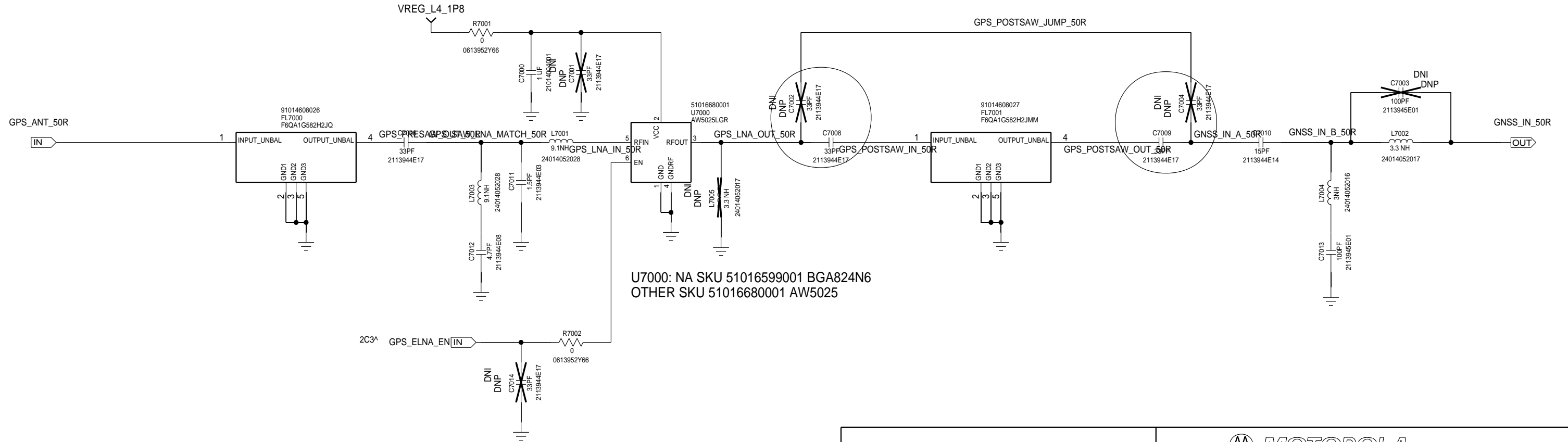
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ENGINEER:		BLOCK TITLE:	
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Wed Nov 23 09:46:09 2016		PROJECT NAME	
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# LB\_DRX



# GNSS REF7000-7009

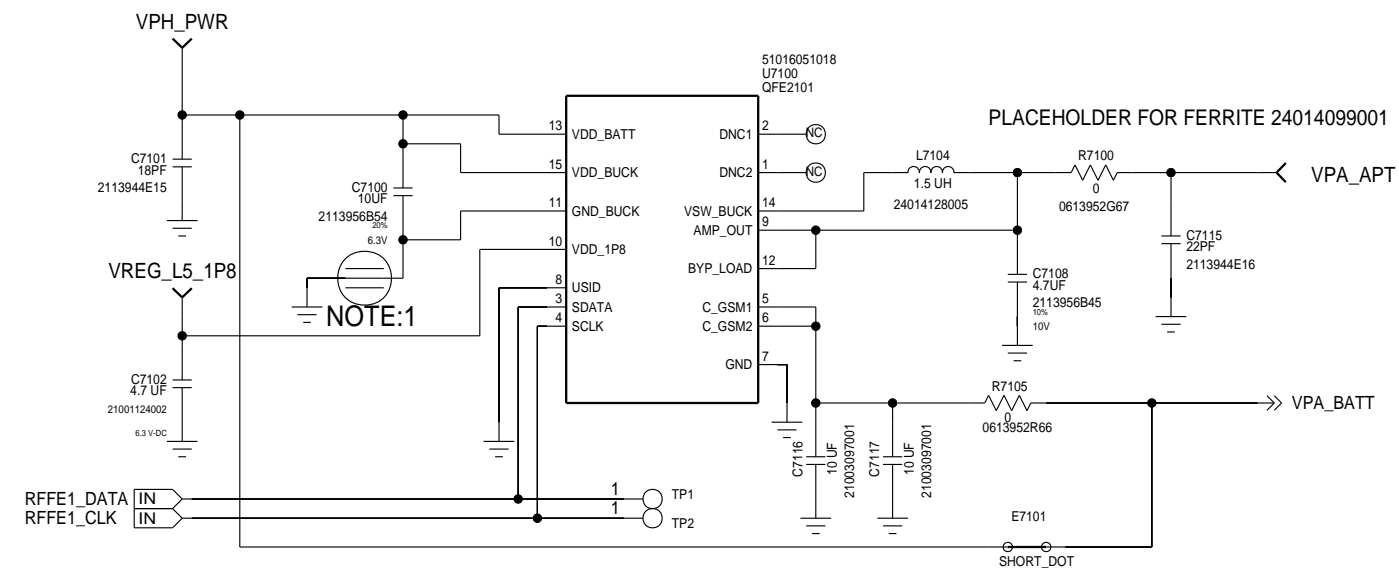
## GNSS



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		rfe	
Wed Nov 23 09:45:42 2016		PROJECT NAME	
MOTOROLA CONFIDENTIAL RESTRICTED		B 84016642001_11_1122.cpm	REV 01
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# DCDC REF7100-7109

DCDC

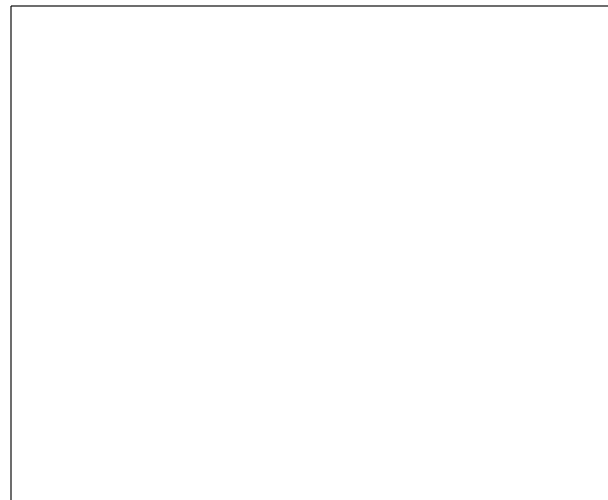
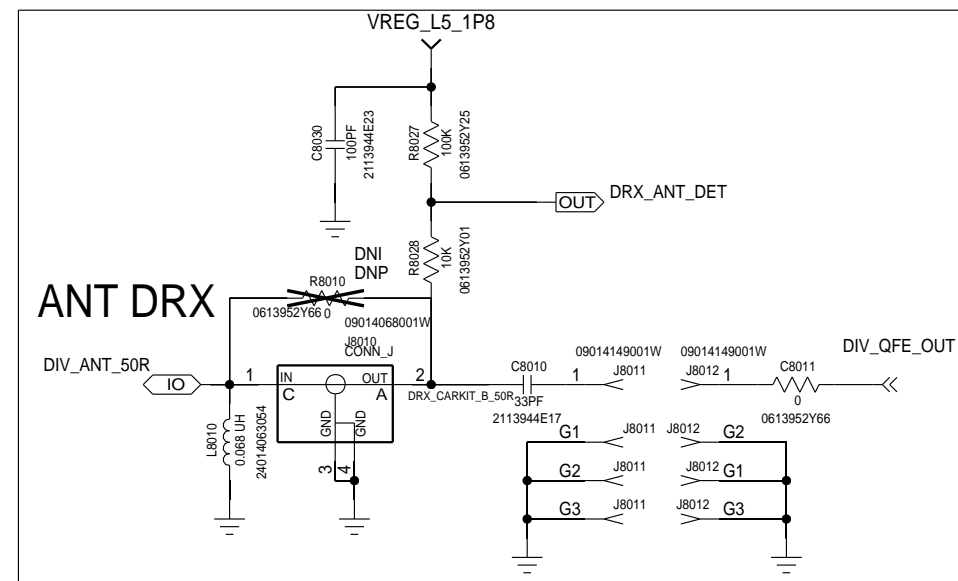
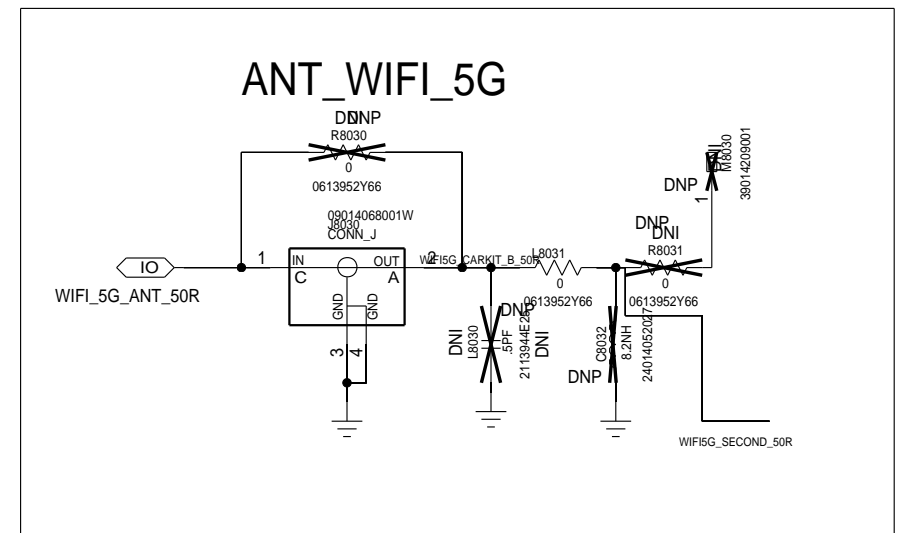
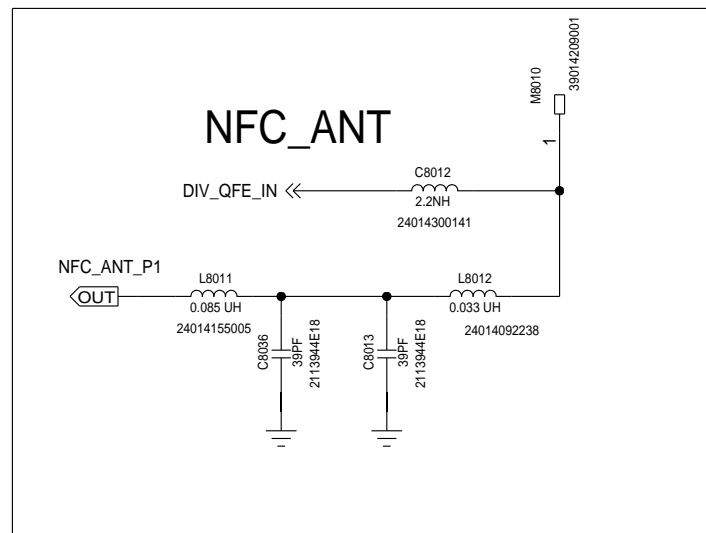
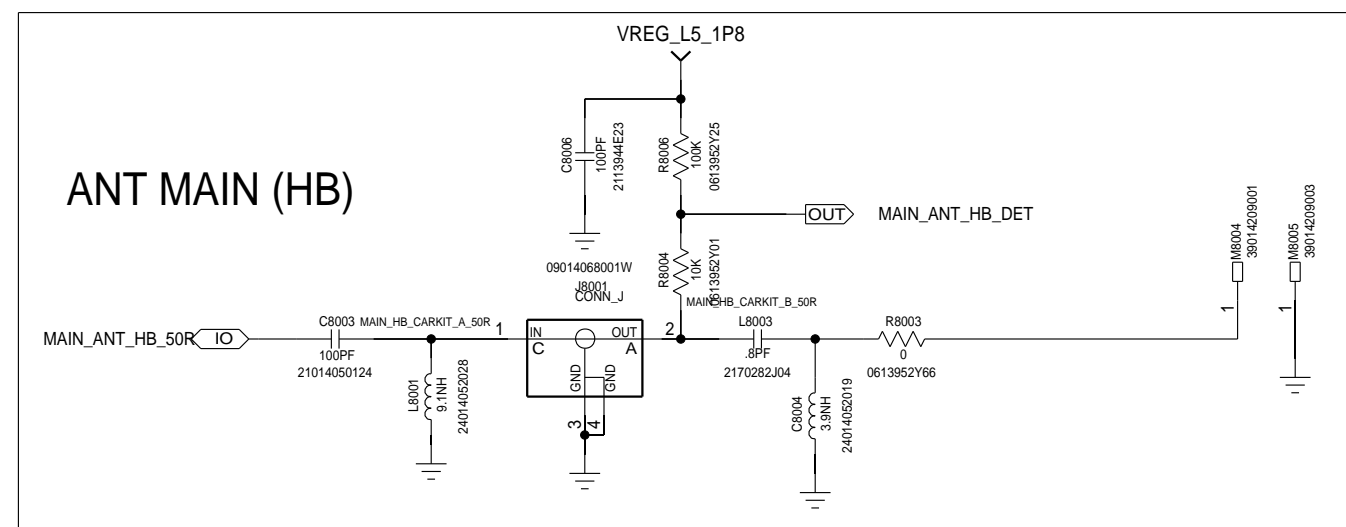
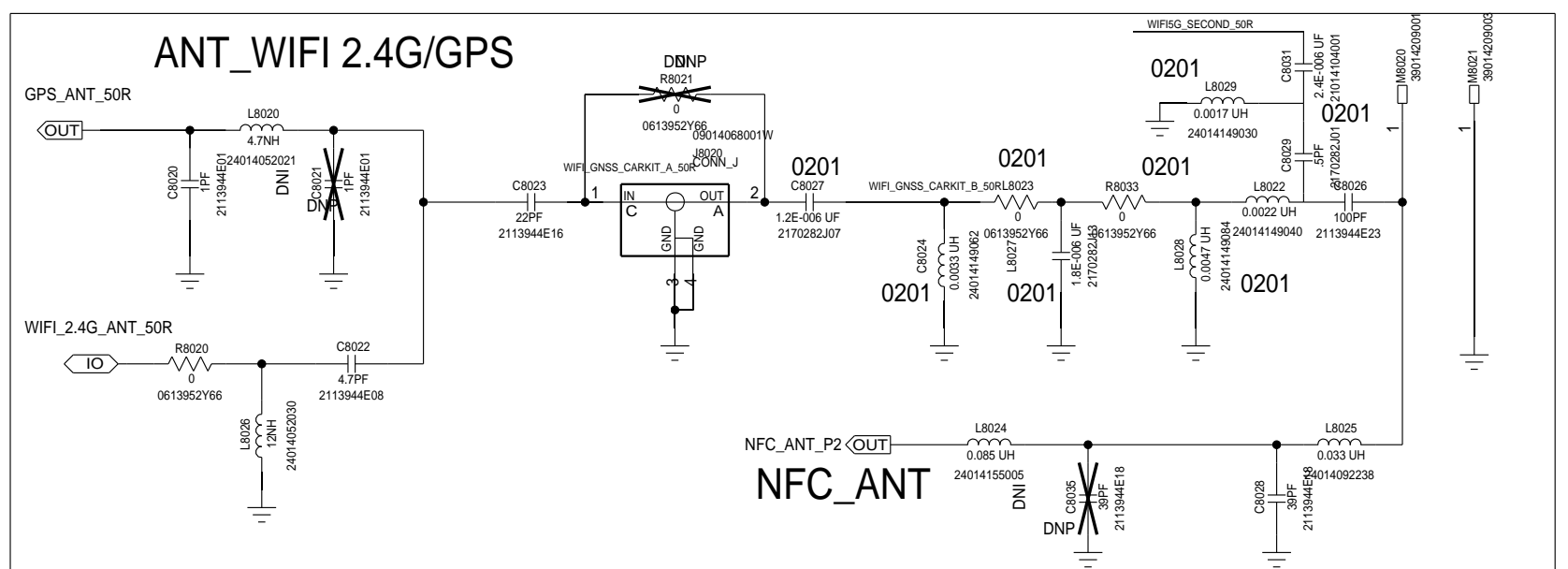
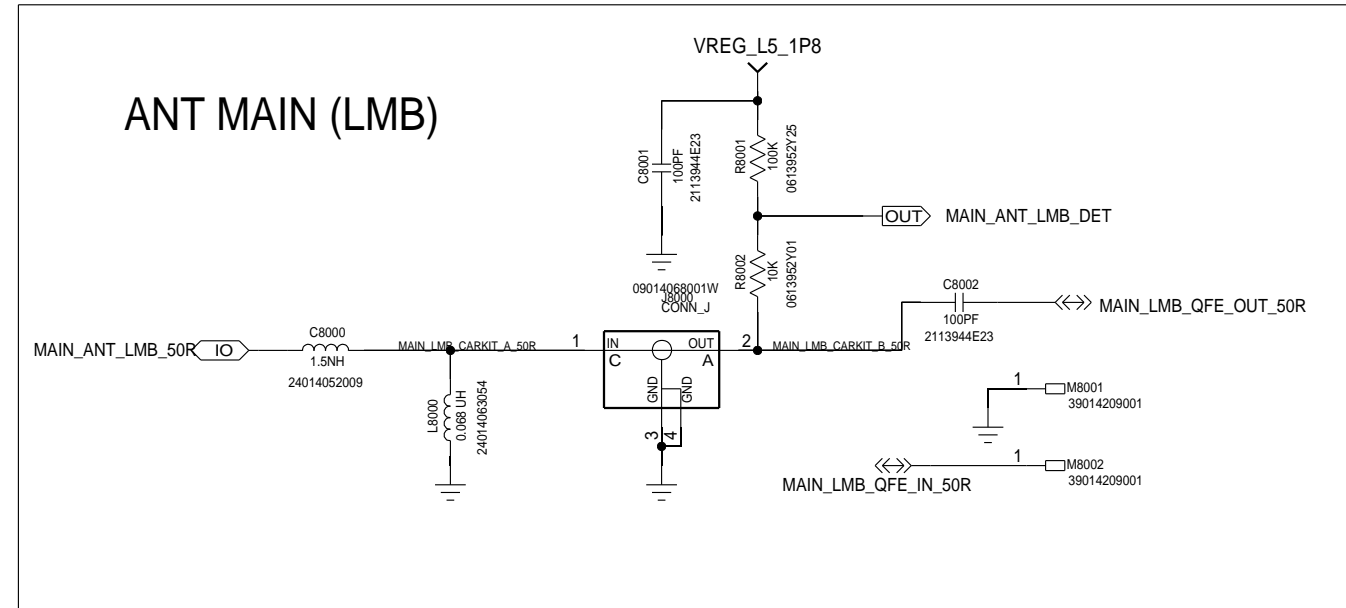


DO NOT VIA DIRECTLY TO GROUND PLANE. KEEP ISOLATED ON SURFACE LAYER;  
BYPASS OPTION FOR VPA\_VBATT  
DNP APPROPRIATELY

APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:45:45 2016		rfe	
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		CAD FILE NAME:	
		PAGE 52 OF 56	

# 8000:antennas

# REF 8000-8049

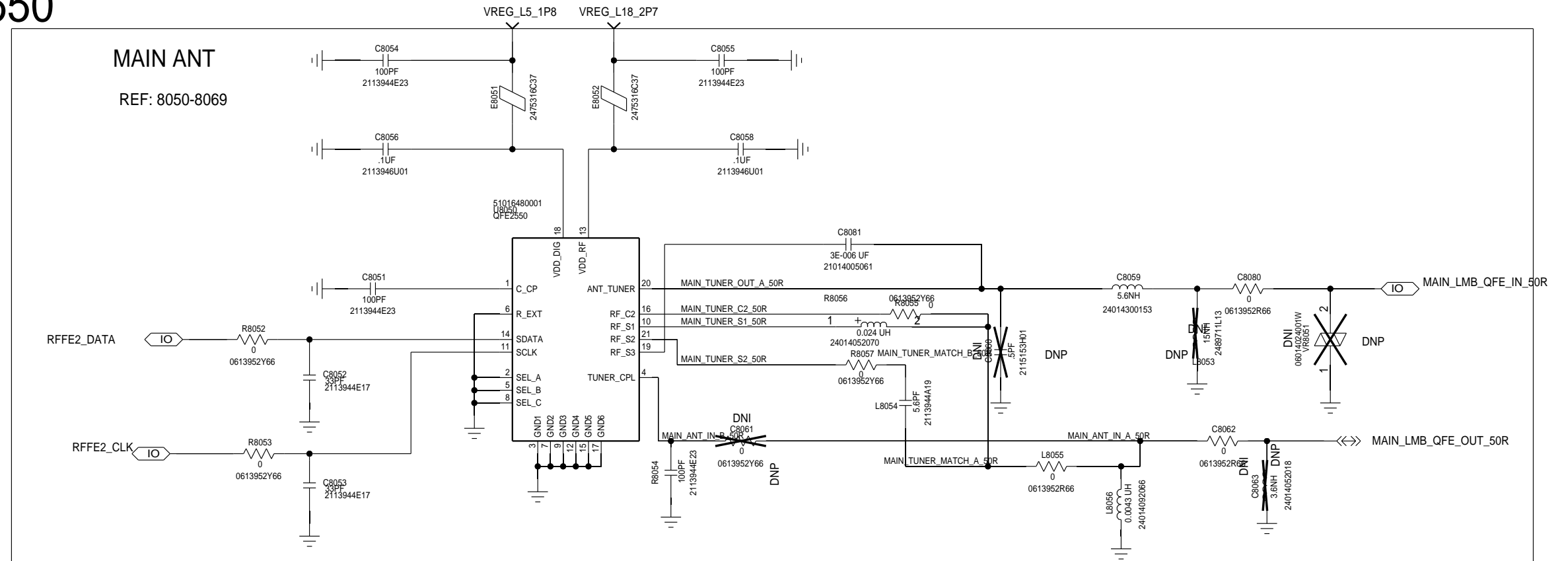


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LAST MODIFIED BY: Wed Nov 23 09:46:22 2016	
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<b>MOTOROLA</b> MOBILE DEVICES	
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PROJECT NAME B 84016642001_11_1122.cpm	REV 01
CAD FILE NAME:	
PAGE 53 OF 56	

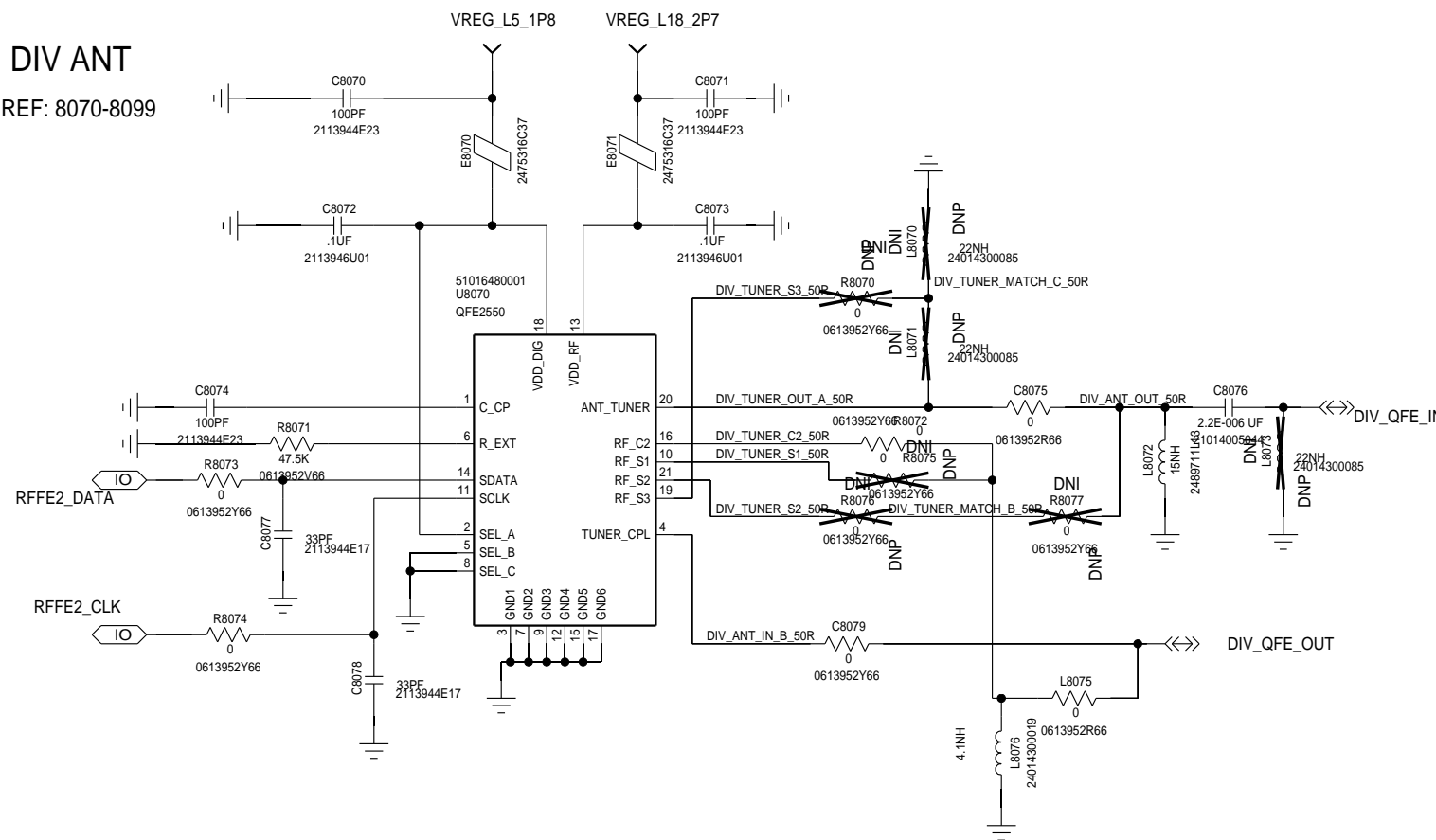
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## REF 8050-8099



# DIV ANT

## REF: 8070-8099



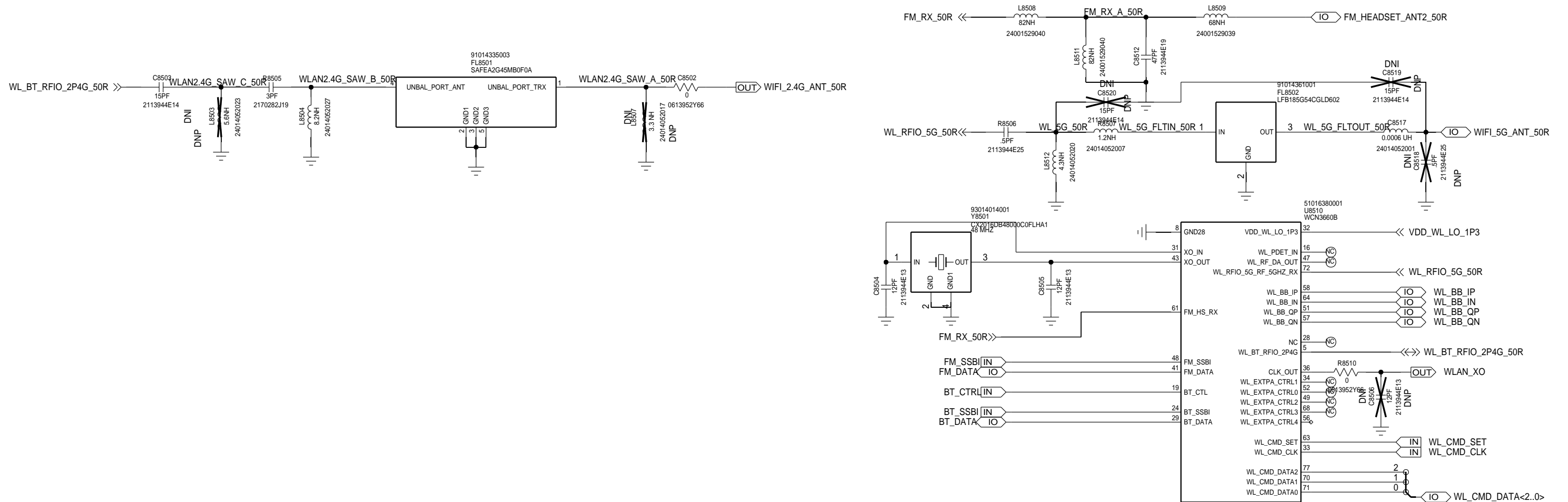
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LAST MODIFIED BY:		<b>antennas</b>	
Wed Nov 23 09:46:25 2016		PROJECT NAME	
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		CAD FILE NAME:	
		REV 01	
PAGE 54 OF 56			

# 8500:WCN3660B RF

## REF 8500-8519

WCN3620 OTHER SKUS: FL8501 USE SAFEA2G45MC0F0A

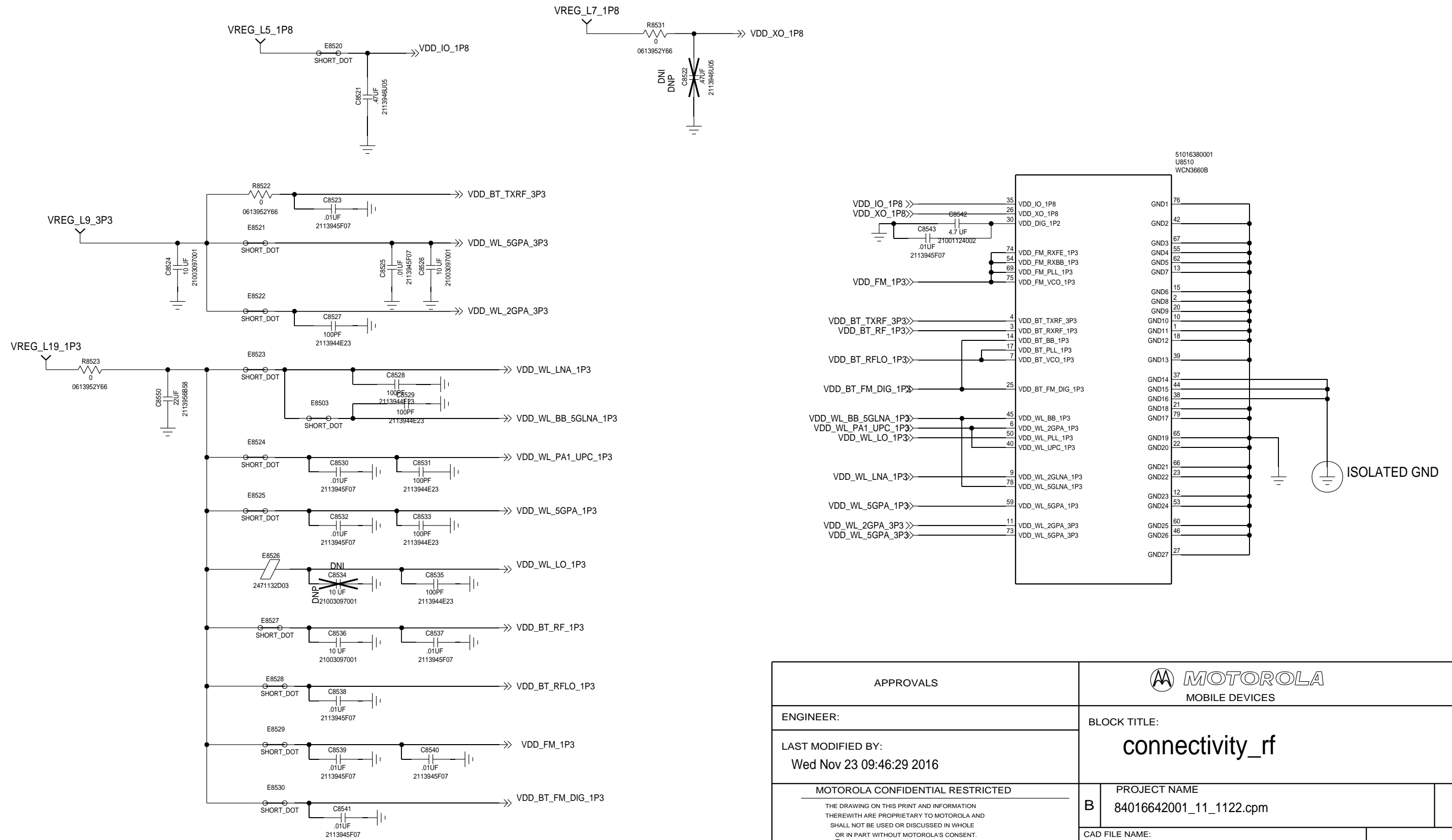
NA SKU: FL8501 USE F6HF2G441AF46M



APPROVALS		<b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		connectivity_rf	
Wed Nov 23 09:46:32 2016			
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		B 84016642001_11_1122.cpm	01
		CAD FILE NAME:	PAGE 55 OF 56

# 8520:WCN3660B Power WCN3620 OTHER SKUS: FL8501 USE SAFEA2G45MC0F0A

## REF 8520-8549 NA SKU: FL8501 USE F6HF2G441AF46M



APPROVALS		 <b>MOTOROLA</b> MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY:		connectivity_rf	
Wed Nov 23 09:46:29 2016		PROJECT NAME	
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