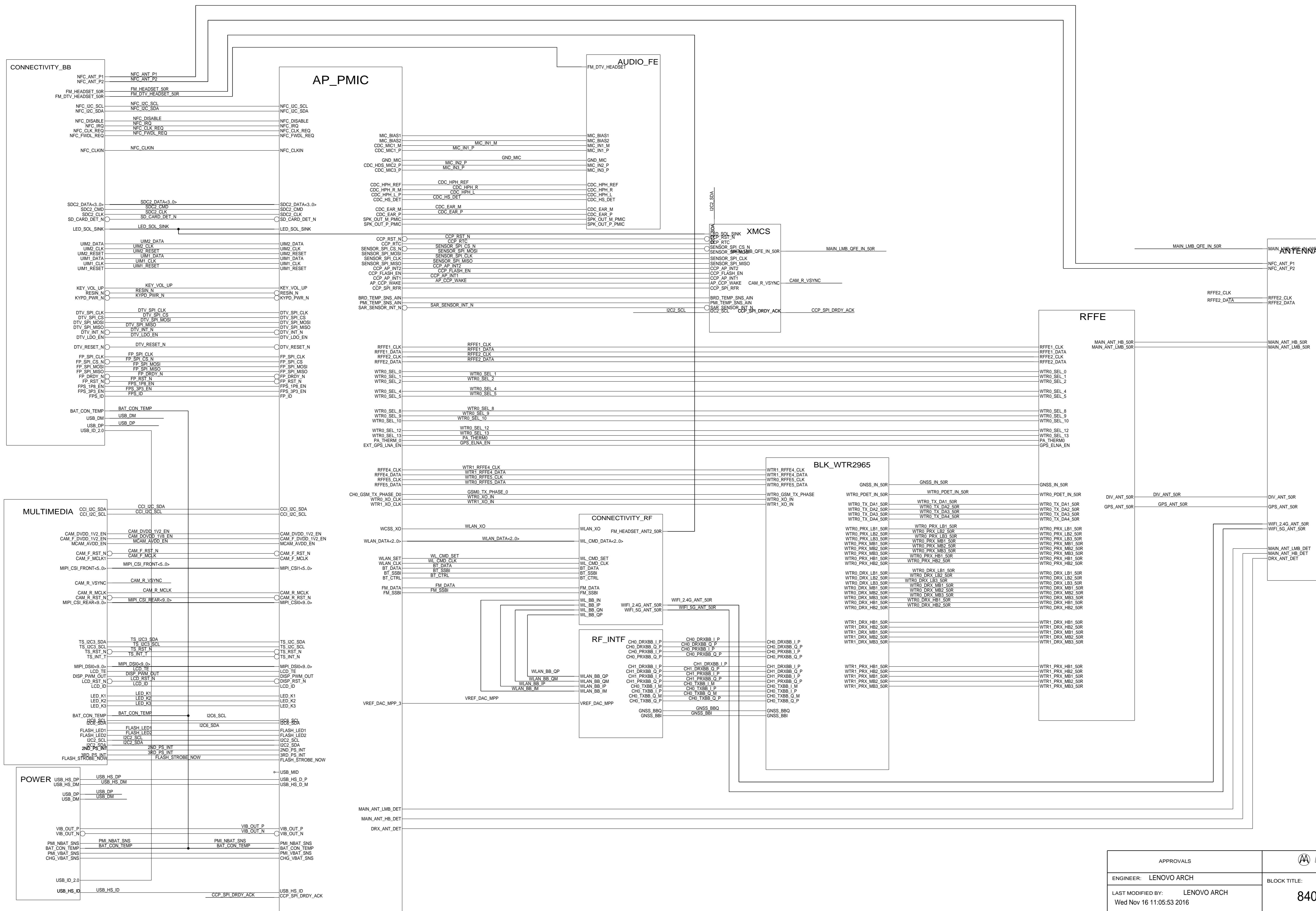


Copperfield



REVISIONS		
ZONE	LTR	DESCRIPTION

APPROVALS	MOTOROLA MOBILE DEVICES	
ENGINEER: LENOVO ARCH		
LAST MODIFIED BY: LENOVO ARCH	BLOCK TITLE: 84016642001_11_1122	
REV 01		
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CAD FILE NAME:	PAGE 1 OF 56	

ME/SIELDS

REF

D D
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

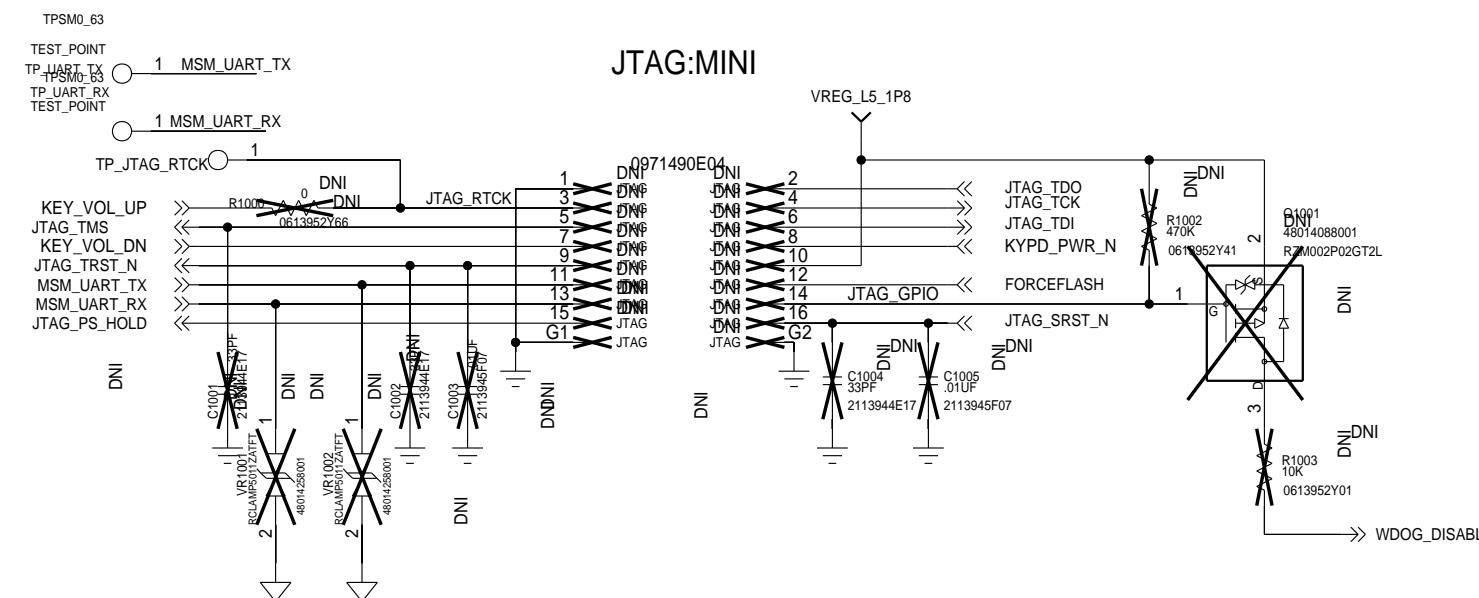
8000-8499:ANTENNAS

8500-8999:CONNECTIVITY_RF

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Fri Mar 25 13:57:25 2016		84016642001_11_1122	
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 84016642001_11_1122.cpm	REV 01
		CAD FILE NAME:	
		PAGE 2 OF 56	

1000:MSM: DEBUG

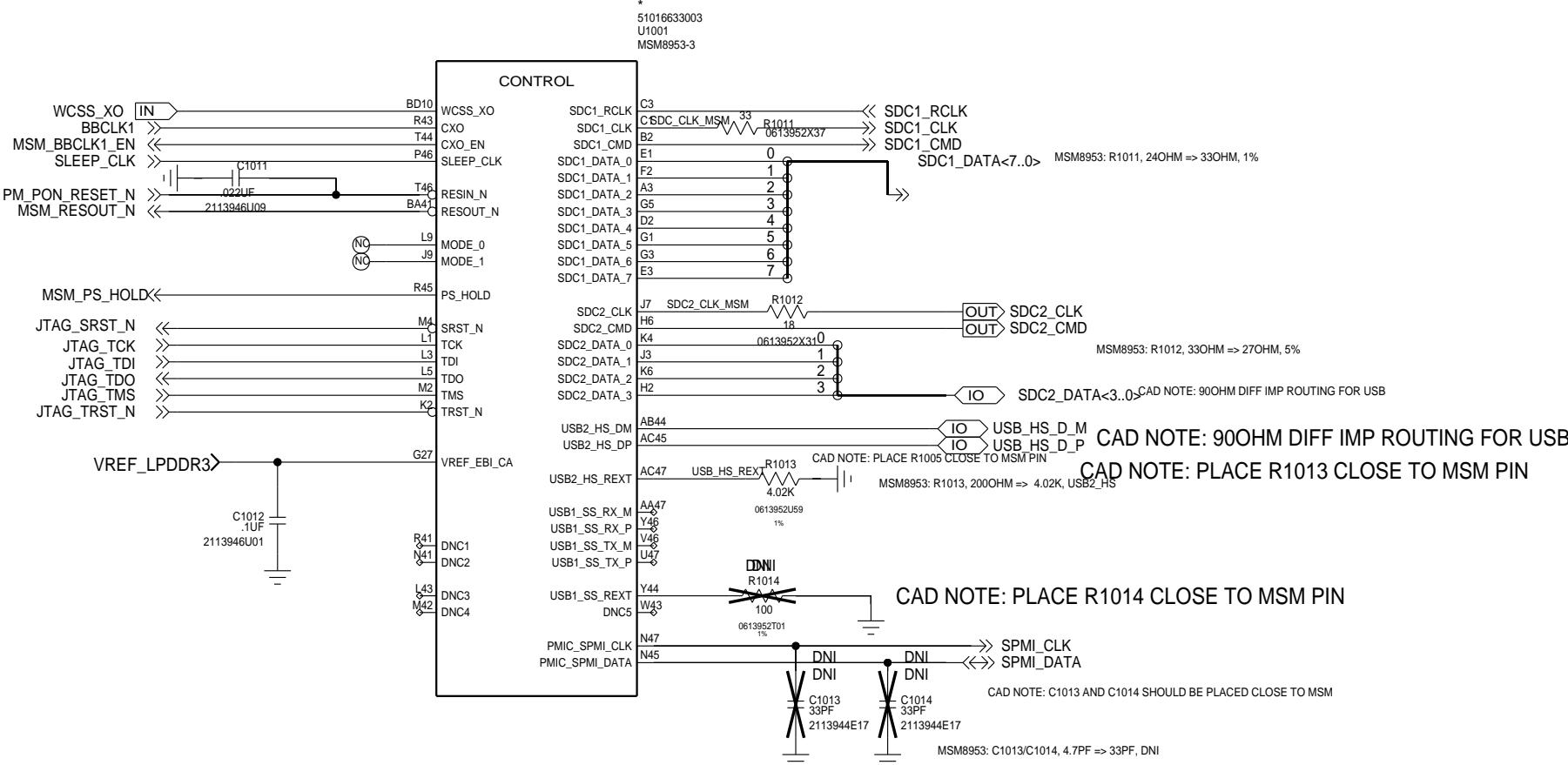
REF 1000-1009



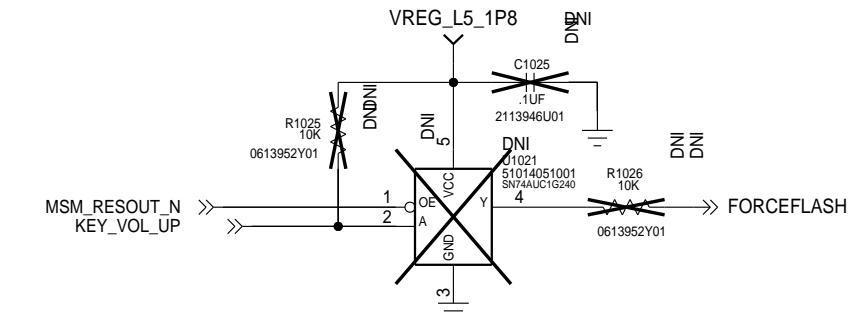
APPROVALS	MOTOROLA MOBILE DEVICES	
ENGINEER:	BLOCK TITLE: ap_pmic	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:44:06 2016		
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>	PROJECT NAME B 84016642001_11_1122.cpm	REV 01
CAD FILE NAME:	PAGE 3 OF 56	

1010:MSM: CTRL

REF 1010-1019



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

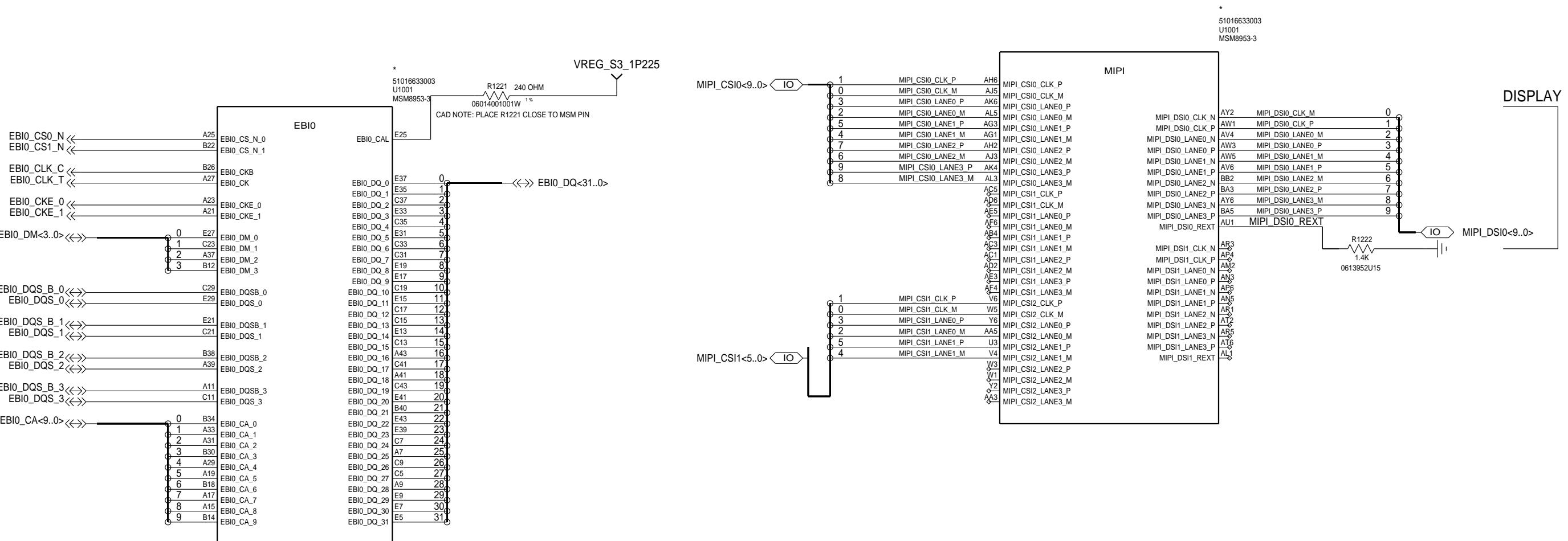


REF:5580-5589

APPROVALS	MOTOROLA MOBILE DEVICES		
ENGINEER:	BLOCK TITLE:		
LAST MODIFIED BY: FAN021	ap_pmic		
Wed Nov 23 09:43:37 2016			
MOTOROLA CONFIDENTIAL RESTRICTED	PROJECT NAME	REV	
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CAD FILE NAME:	PAGE 4 OF 56		

1020:MSM: MIPI/DSI/CSI/EBI0

REF 1020-1029



*MIPI_CSI CAN BE CHANGED FOR MODS
MSM8953: CSI1 => MODS, CSI2=> FFCAM

APPROVALS	MOTOROLA MOBILE DEVICES	
ENGINEER:	BLOCK TITLE:	
LAST MODIFIED BY:	ap_pmic	
REV 01	PROJECT NAME B 84016642001_11_1122.cpm	
CAD FILE NAME:	PAGE 5 OF 56	

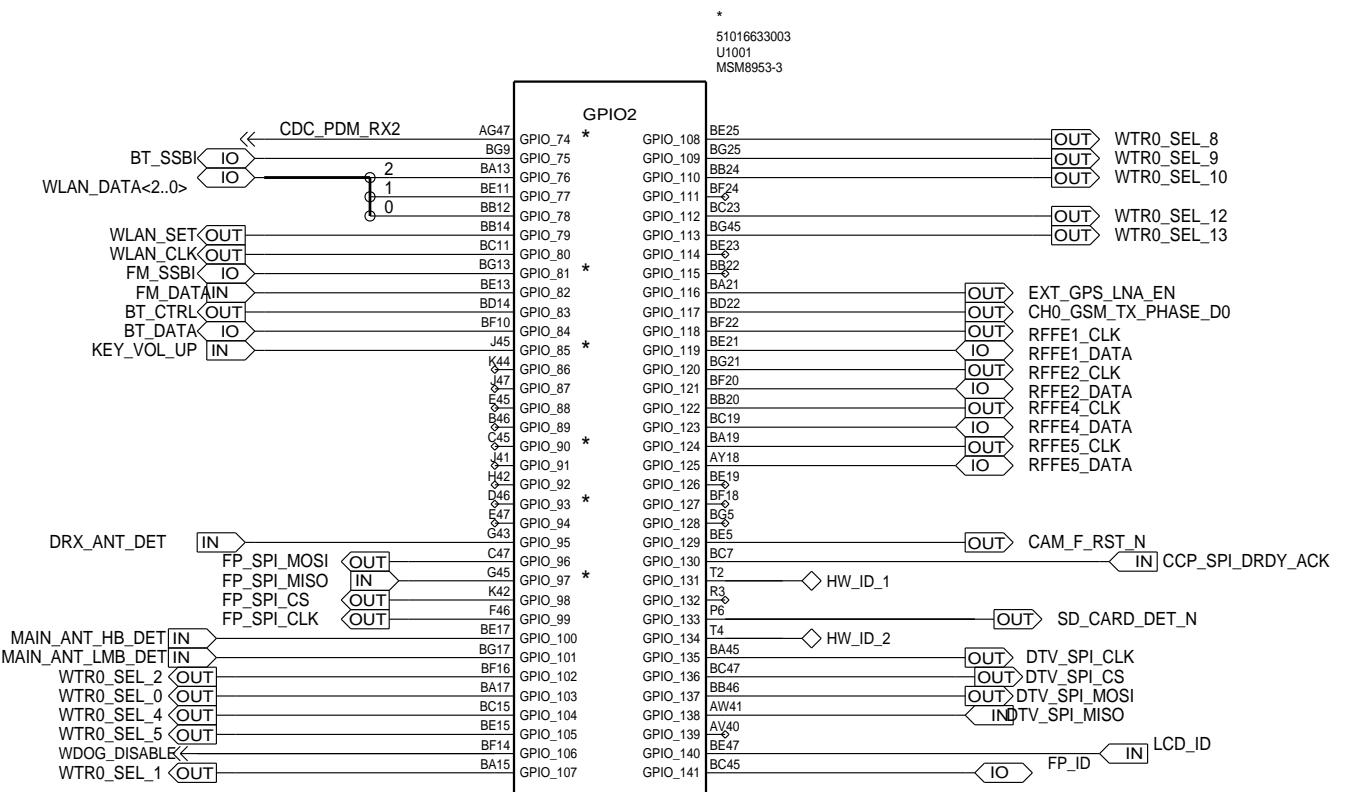
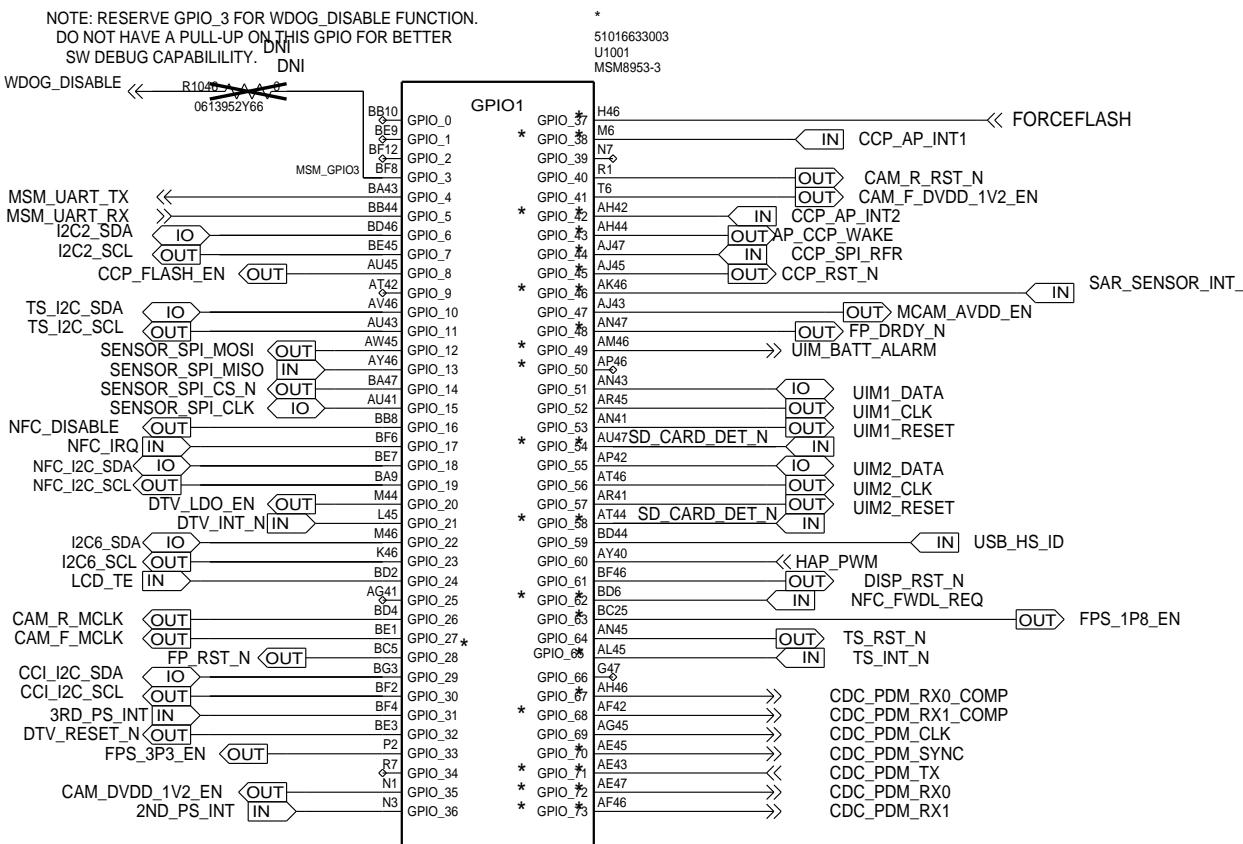
1030:MSM: GPIO (0-133)

REF 1030-1049

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

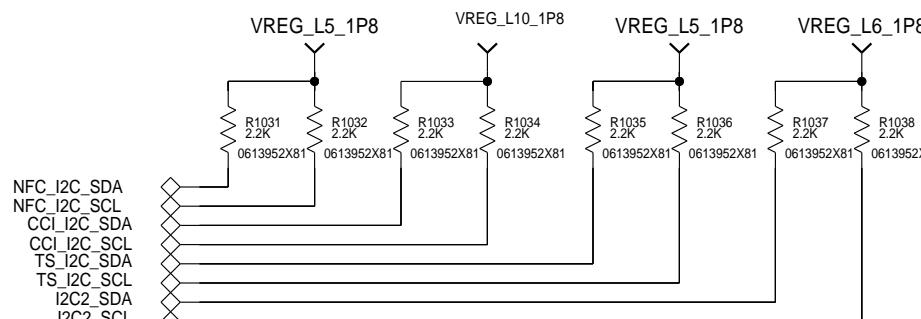
*
510166330
U1001
MSM8953-

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



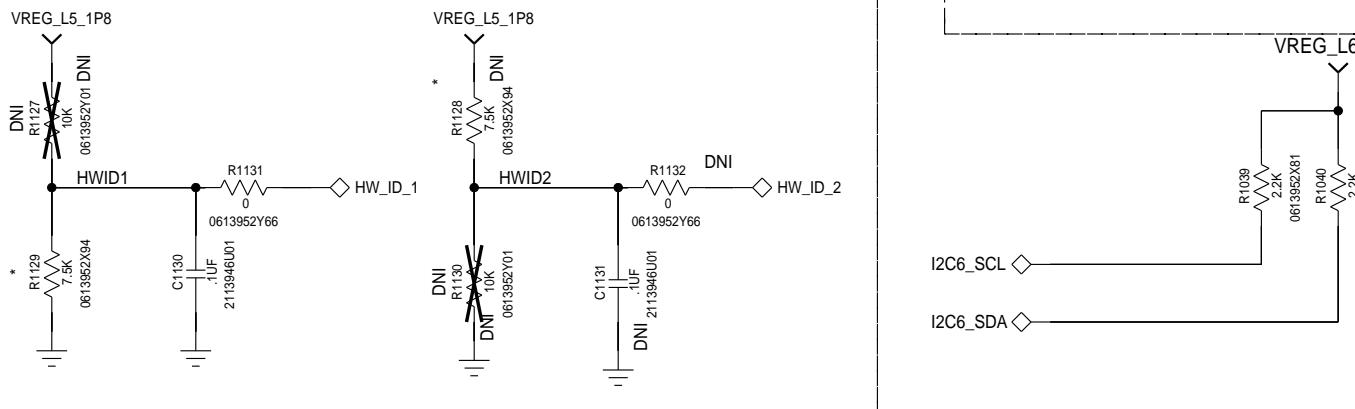
WAITING FOR GPIO ASSIGNMENT NEED WAKABLE

I2C PULL-UP RESISTOR



MOT BOARD ID HWID DA

FOR RUNTIME REVISION INFORMATION, REFER TO:
<https://sites.google.com/a/motorola.com/runtime-product-ids>

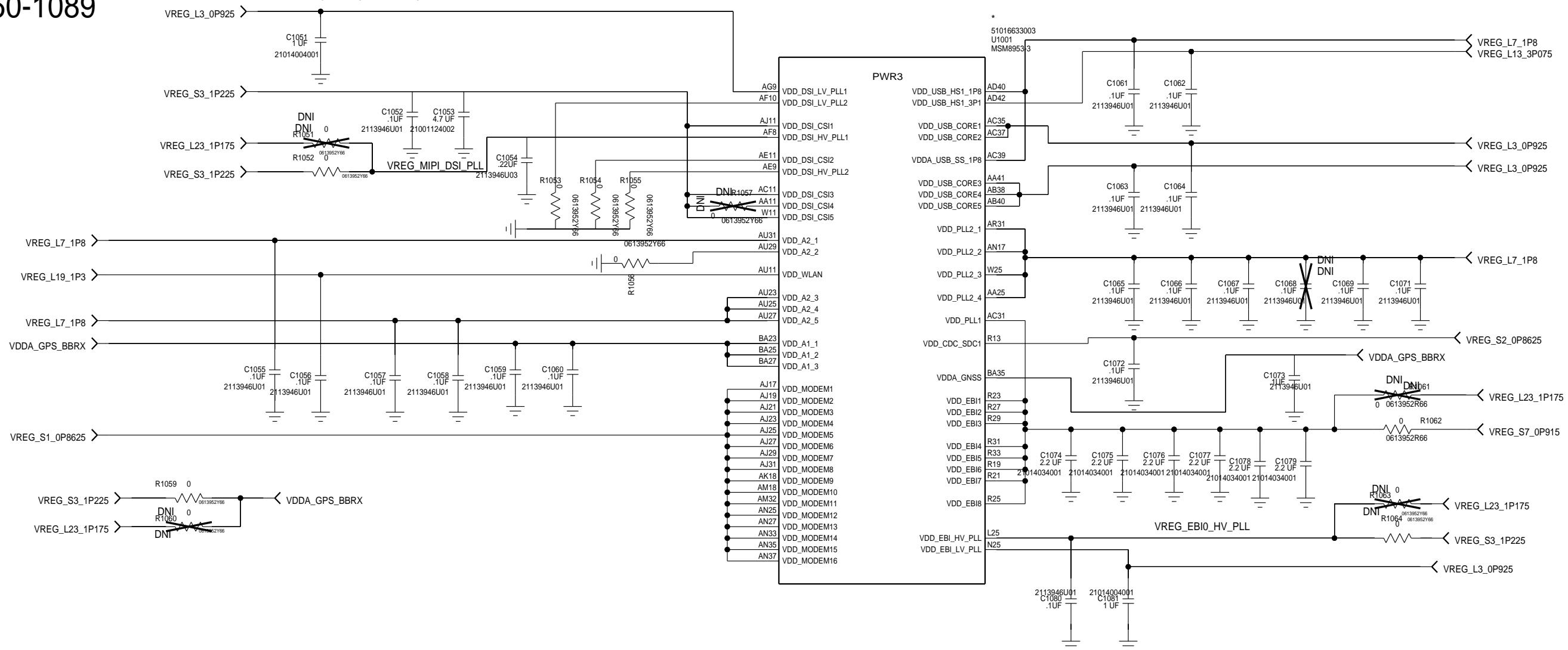


APPROVALS	 MOTOROLA MOBILE DEVICES		
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LAST MODIFIED BY: FAN021 Wed Nov 23 09:44:12 2016	ap_pmic		
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	CAD FILE NAME:		PAGE 6 OF 56

1050:MSM: PWR1

REF 1050-1089

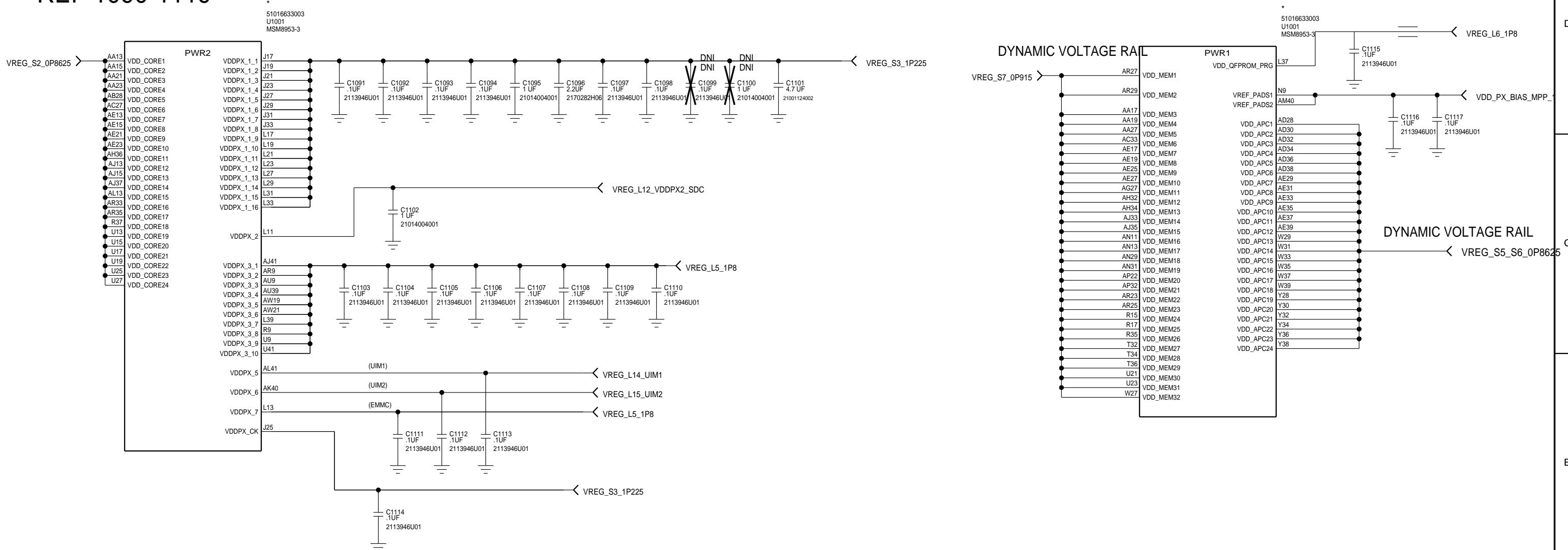
CAD NOTE: PLACE ONE DECAP NEAR PINS V5, V6 AND
THE OTHER DECAP NEAR PIN R5



APPROVALS	 MOTOROLA MOBILE DEVICES		
ENGINEER:	BLOCK TITLE: ap_pmic		
LAST MODIFIED BY: FAN021 Wed Nov 23 09:44:00 2016			
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		CAD FILE NAME: 	PAGE 7 OF 56

1090:MSM: PWR2

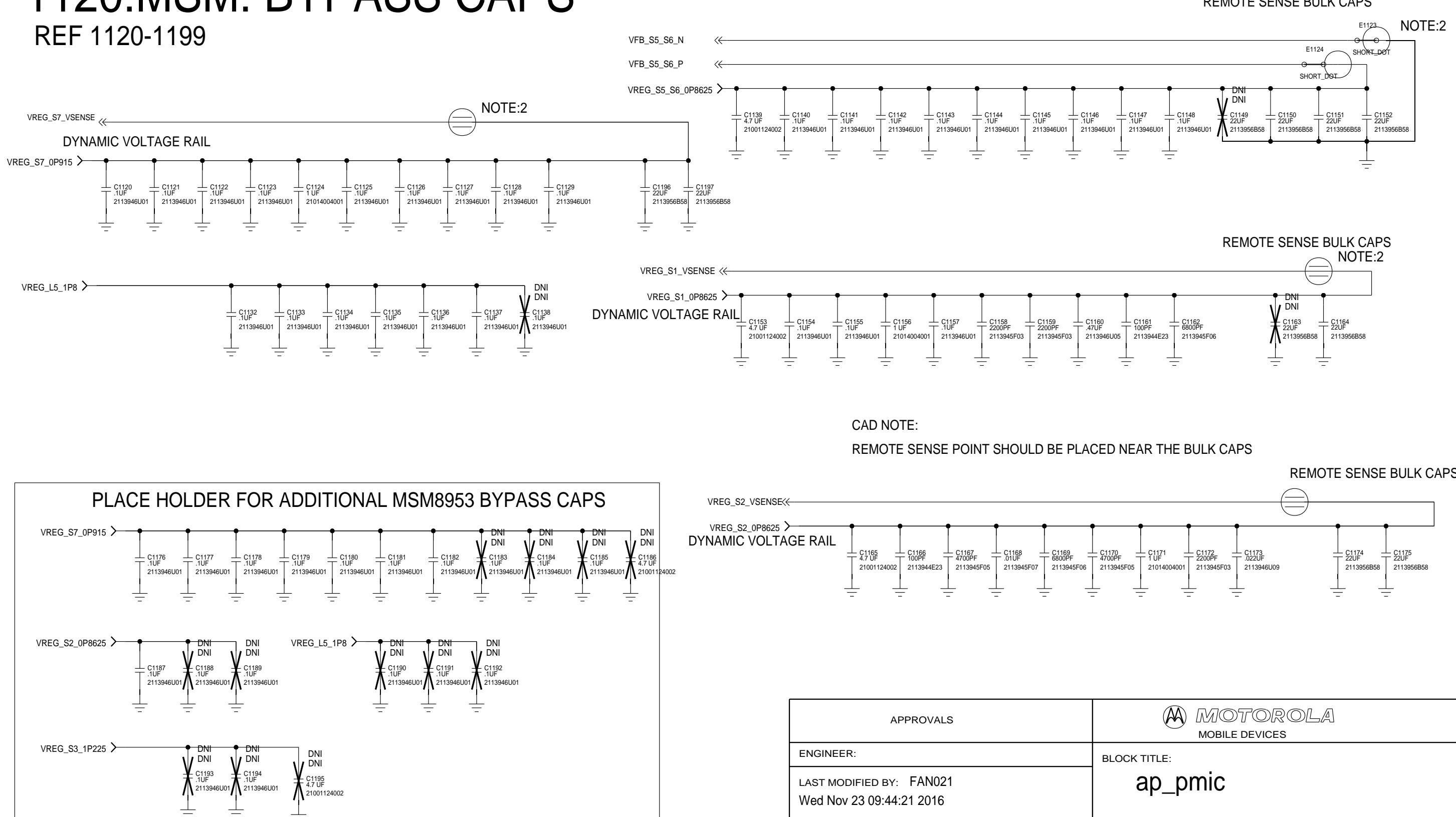
REF 1090-1119



APPROVALS	MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: FAN021	ap_pmic	
Wed Nov 23 09:44:15 2016		
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CAD FILE NAME:	PAGE 8 OF 56	

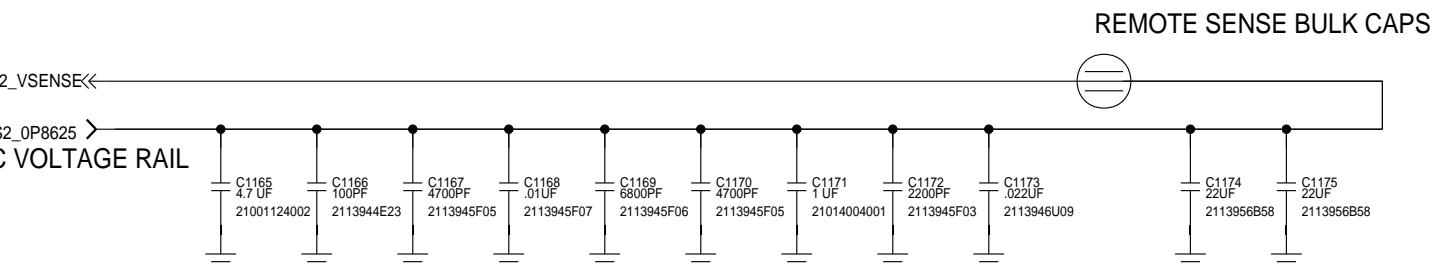
1120:MSM: BYPASS CAPS

REF 1120-1199



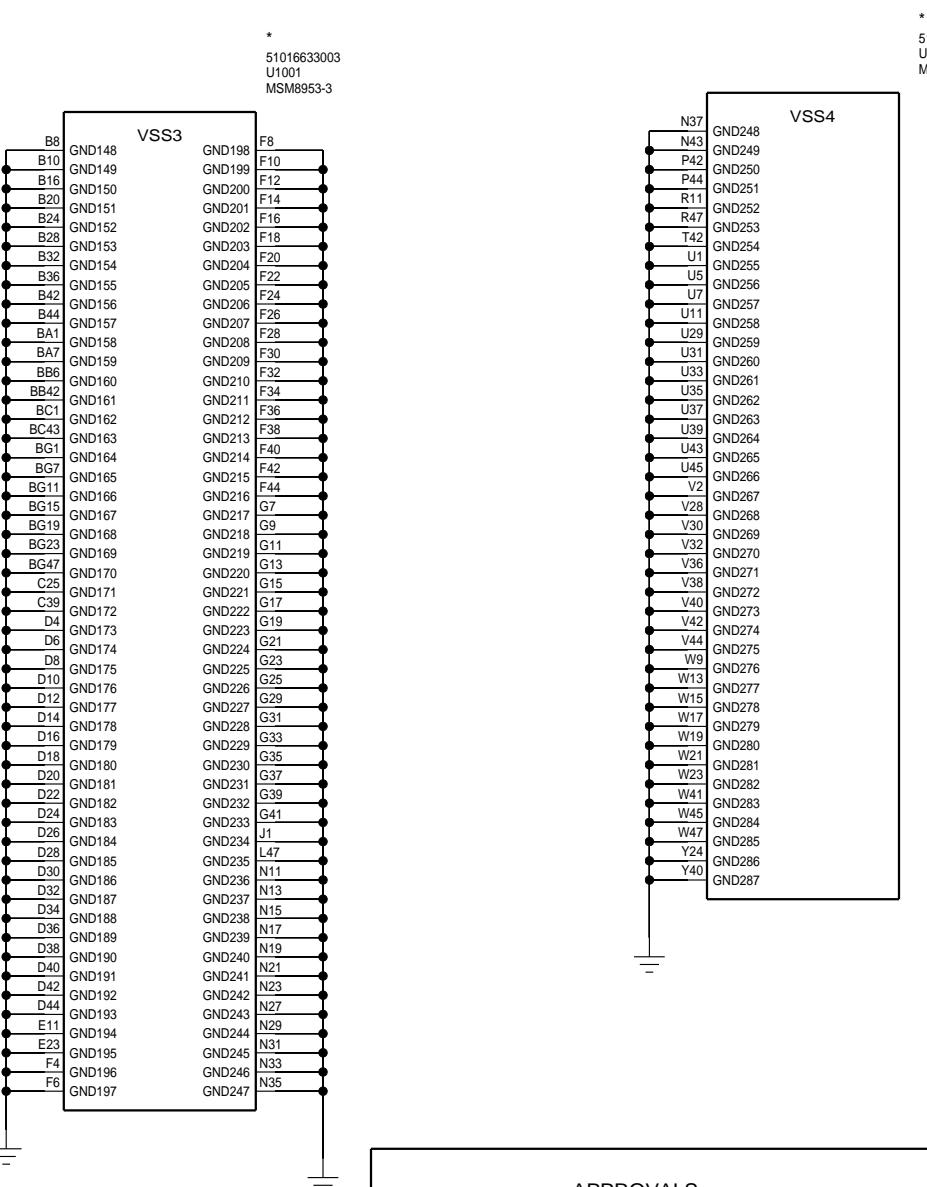
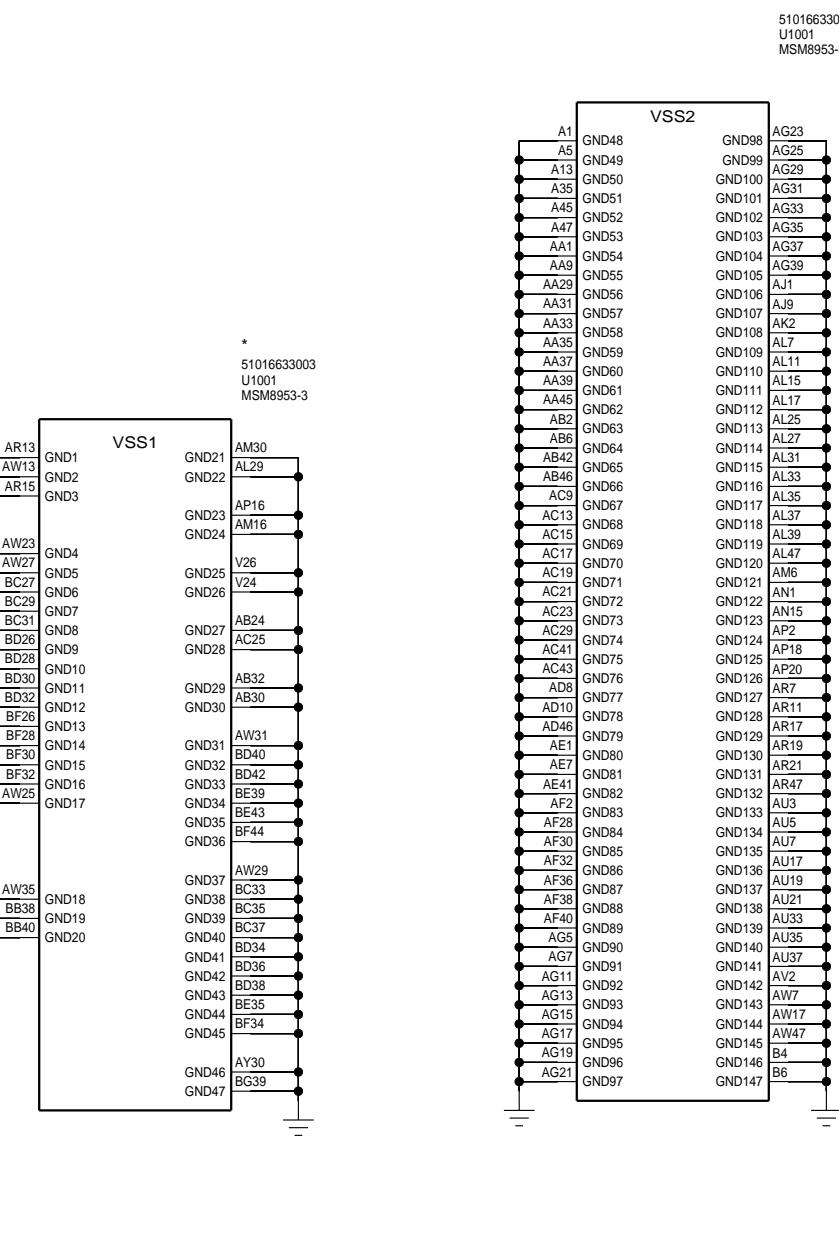
CAD NOTE:

REMOTE SENSE POINT SHOULD BE PLACED NEAR THE BULK CAPS



1200:MSM: GROUND

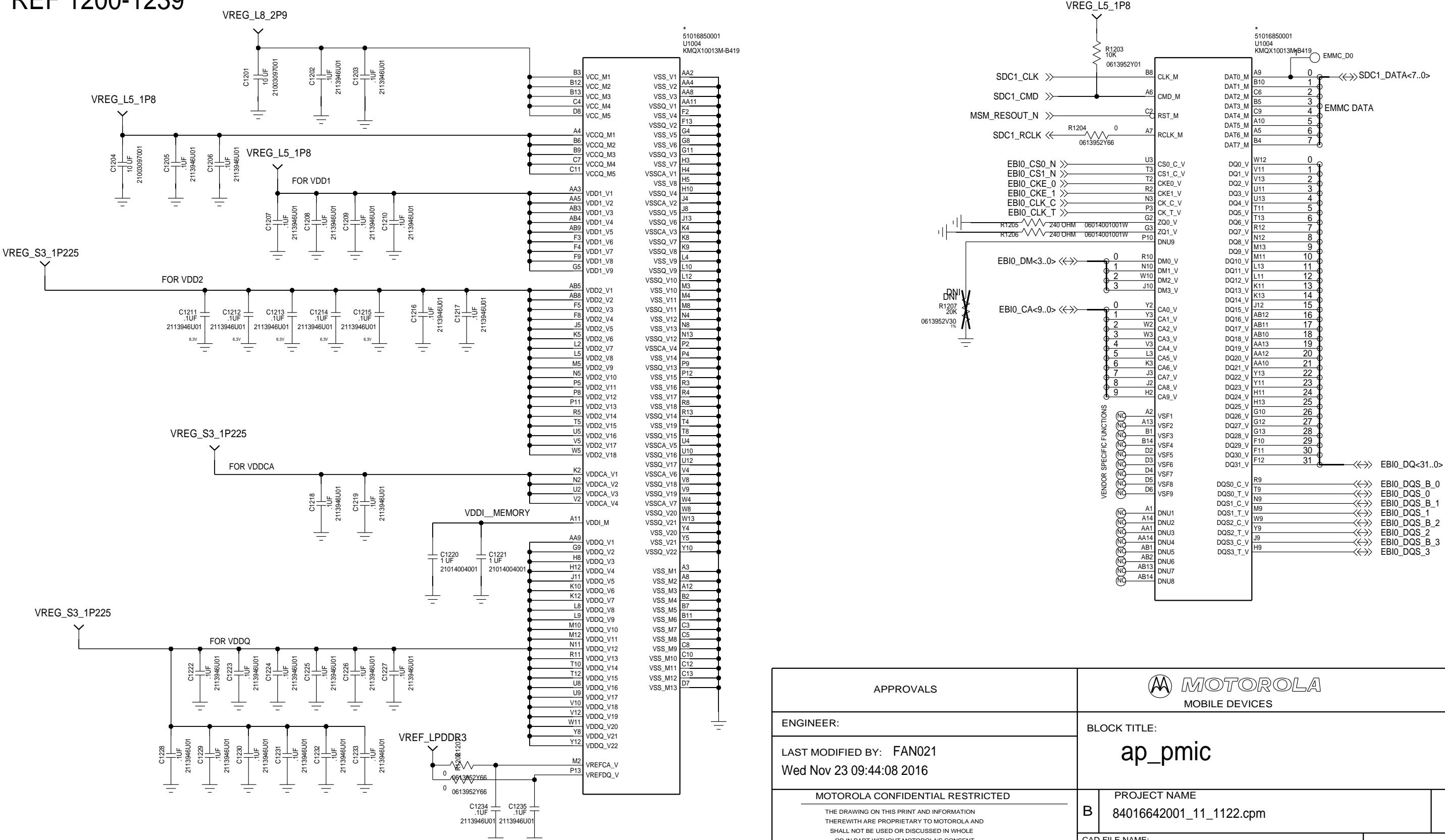
D



1200:MEMORY: EMCP

REF 1200-1239

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



APPROVALS

MOTOROLA
MOBILE DEVICES

ENGINEER:

LAST MODIFIED BY: FAN021
Wed Nov 23 09:44:08 2016

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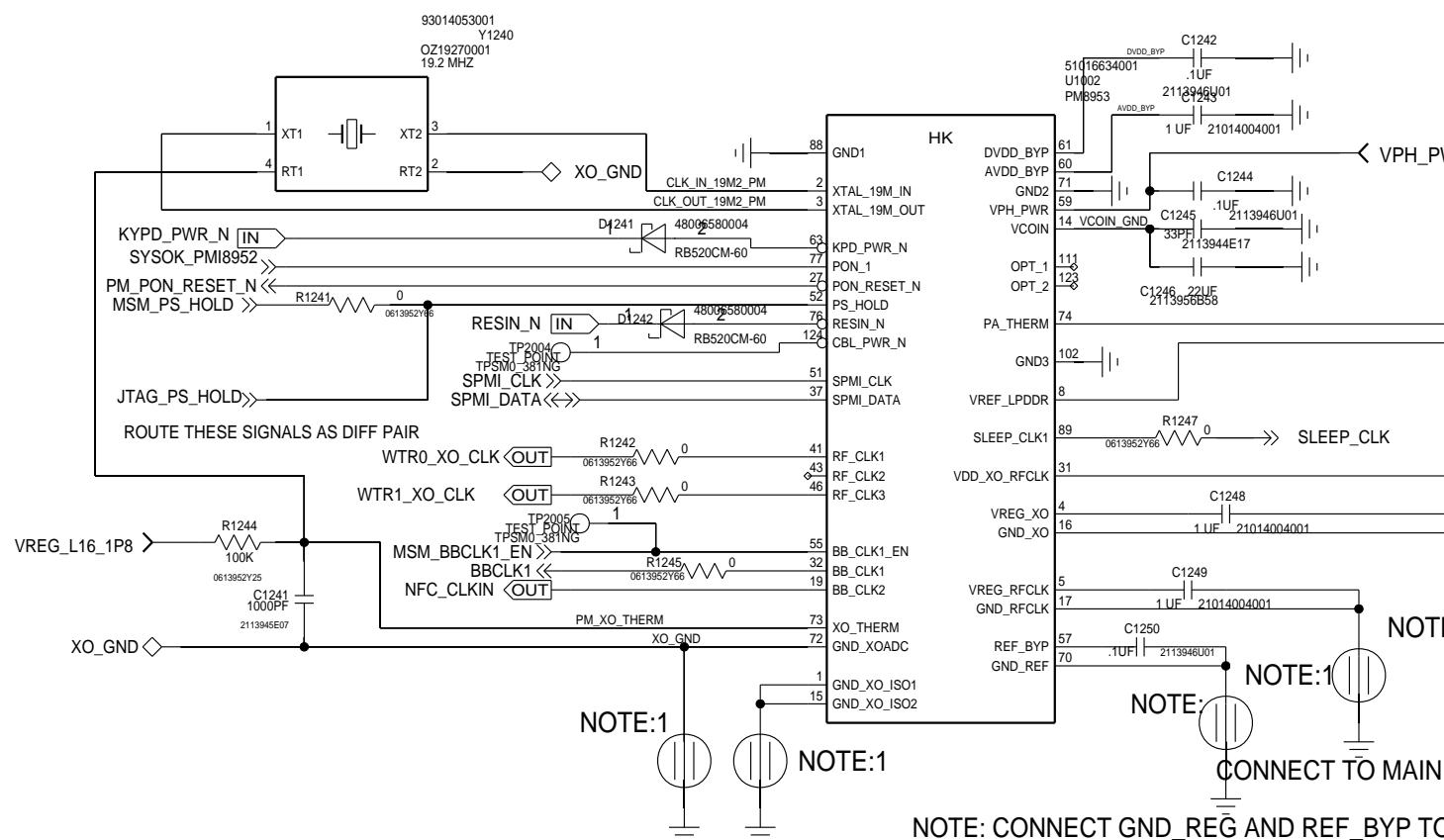
PROJECT NAME
B 84016642001_11_1122.cpm

REV
01

CAD FILE NAME:

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1240:PM8953: HK/GHRG/LED/GPI
REF 1240-1259

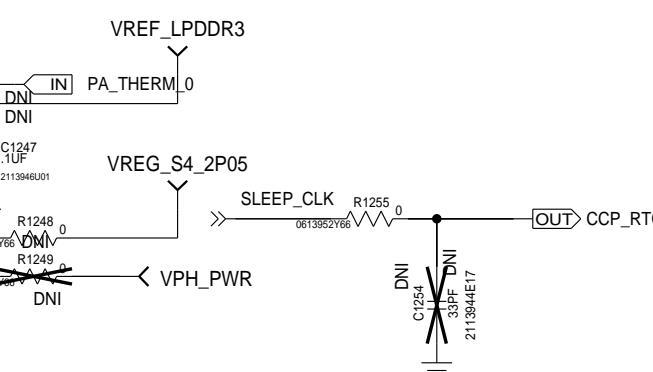


CAD NOTE 1: PLACE C2000 CLOSE TO Y5 AND CONNECT CAP GND THROUGH DEDICATED VIA TO MAIN GND PLANE

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

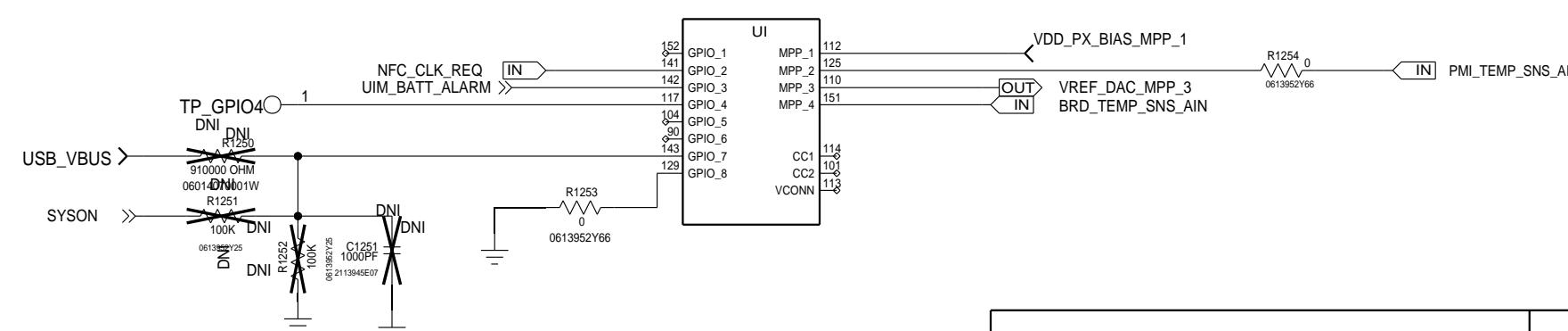
CAD NOTE 4: H3 MUST BE CONNECTED TO MAIN GND USING DEDICATED VIA



NOTE 1:CONNECT TO MAIN GND

NOTE: CONNECT GND_REG AND REF_BYP TO C1250 ON TOP LAYER WITHOUT VIA

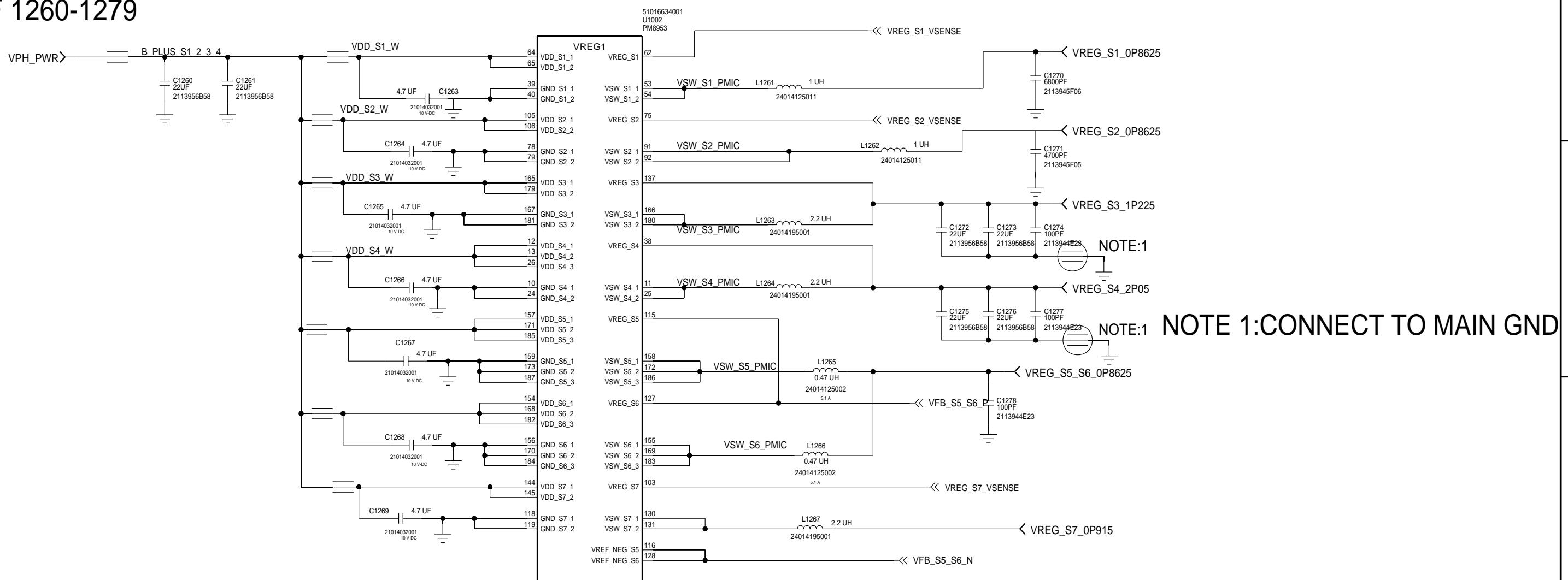
NOTE 1:CONNECT TO MAIN GND



APPROVALS	 MOTOROLA MOBILE DEVICES	
ENGINEER:	BLOCK TITLE: ap_pmic	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:57 2016		
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B	PROJECT NAME 84016642001_11_1122.cpm	REV 01
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1260:PM8953: SMPS

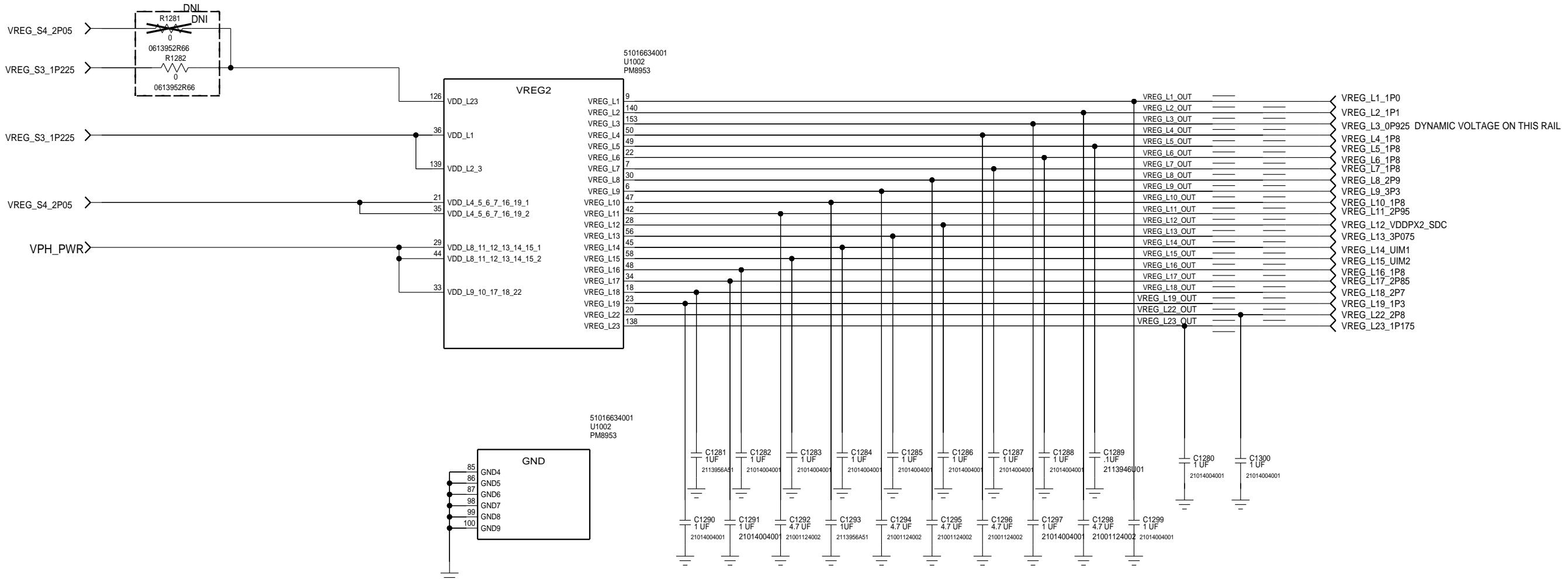
REF 1260-1279



APPROVALS	MOTOROLA 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

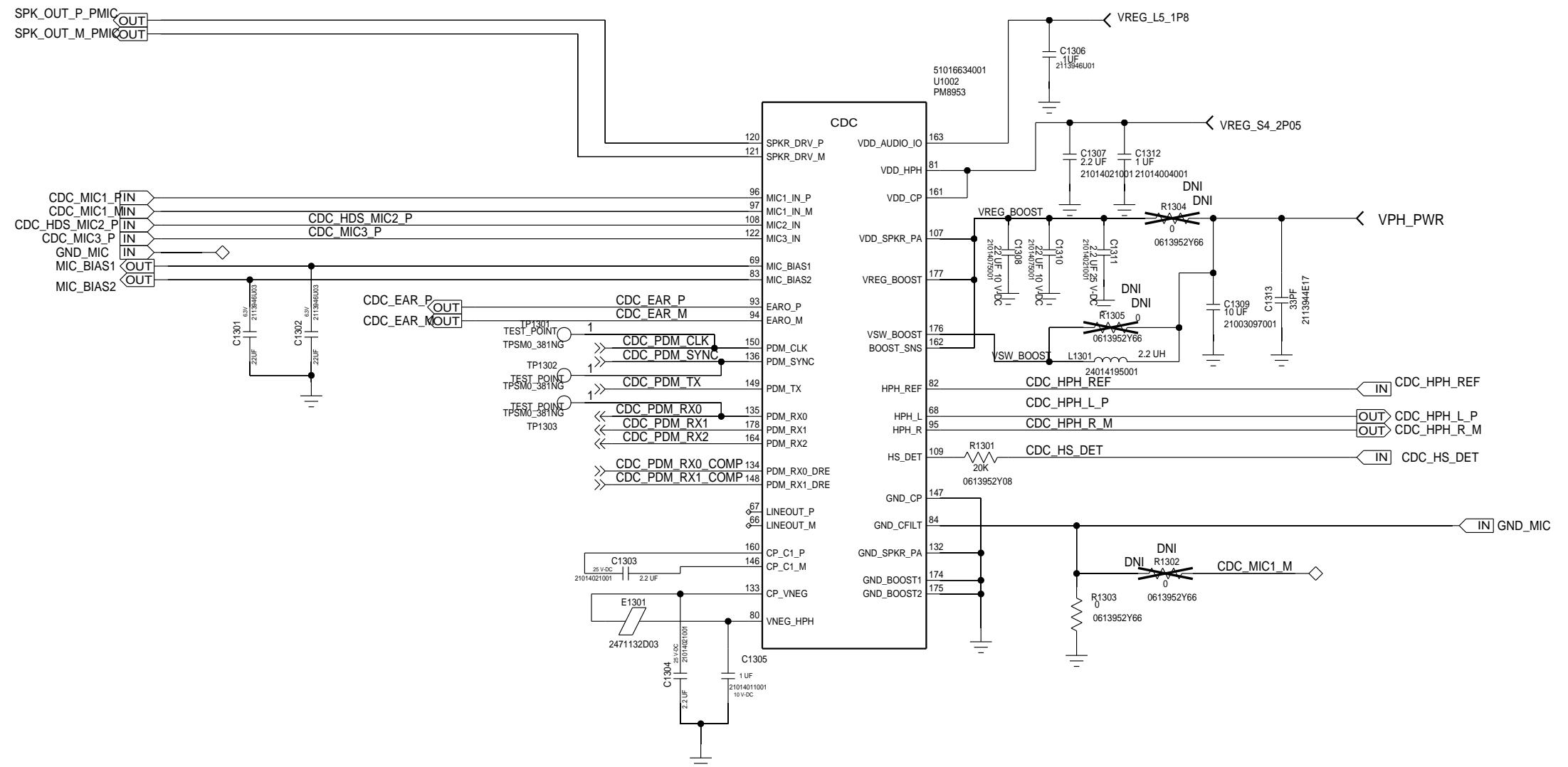
REF 1280-1299



APPROVALS	MOTOROLA MOBILE DEVICES	
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Wed Nov 23 09:43:51 2016	PROJECT NAME	REV
MOTOROLA CONFIDENTIAL RESTRICTED	B 84016642001_11_1122.cpm	01
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		PAGE 14 OF 56

1300:PM8953:CODEC

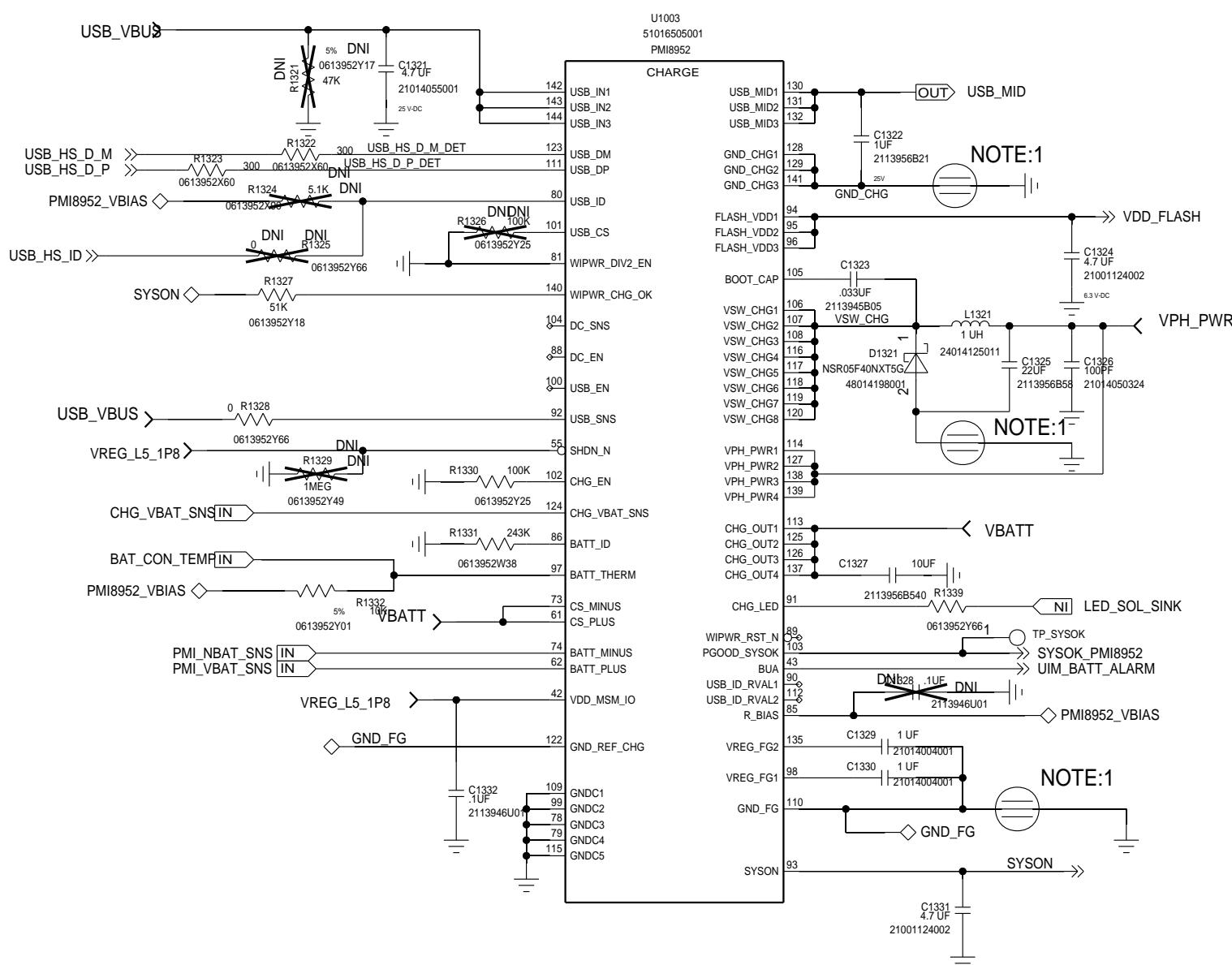
REF 1300-1319



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:48 2016		ap_pmic	
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1320:PMI8952: CHARGING

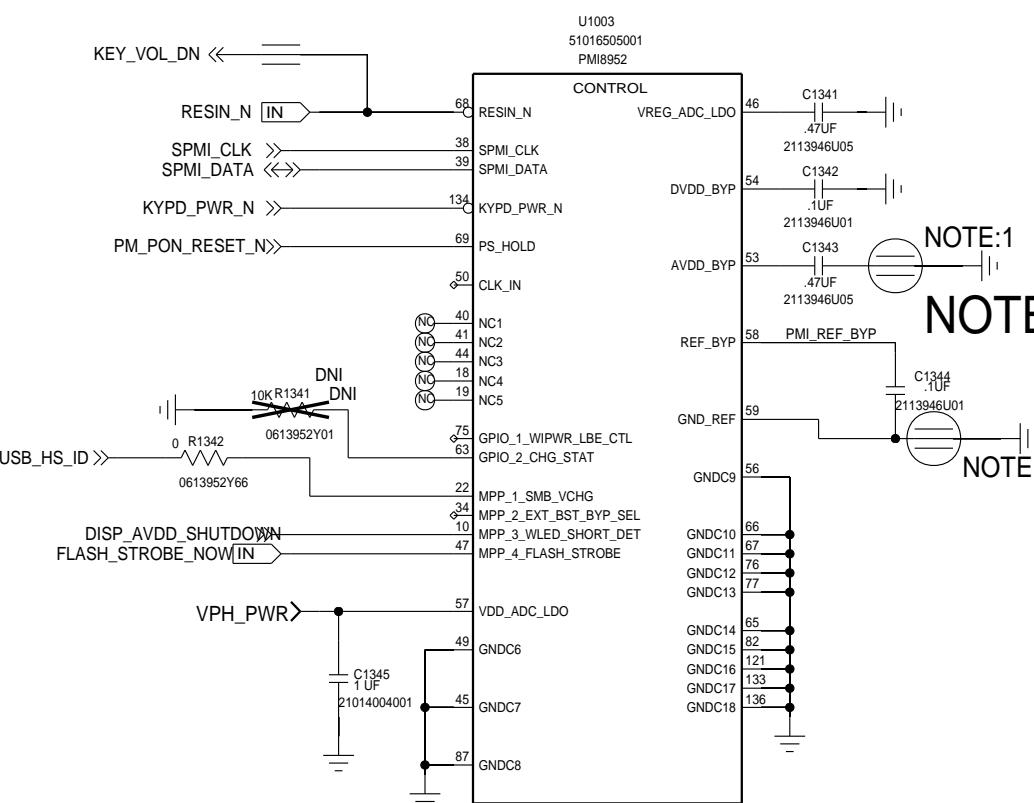
REF 1320-1339



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ENGINEER:	BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:40 2016	ap_pmic	
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CAD FILE NAME:		PAGE 16 OF 56

1340:PMI8952: IO_REF

REF 1340-1349

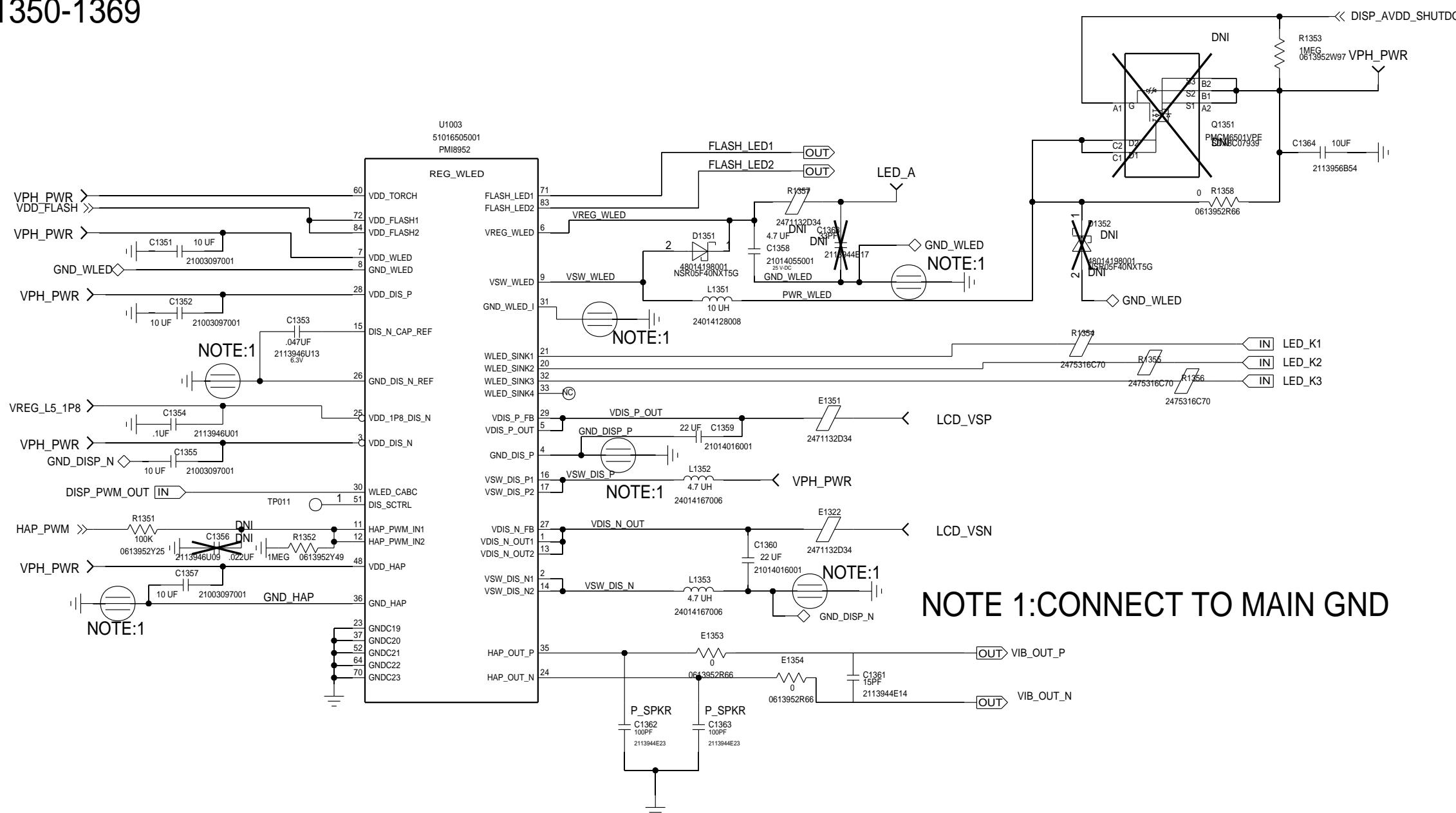


NOTE 1:CONNECT TO MAIN GND

APPROVALS	MOTOROLA MOBILE DEVICES	
ENGINEER:	BLOCK TITLE:	
LAST MODIFIED BY: FAN021 Wed Nov 23 09:43:46 2016	ap_pmic	
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CAD FILE NAME:		PAGE 17 OF 56

1350:PMI8952: REG_WLED

REF 1350-1369

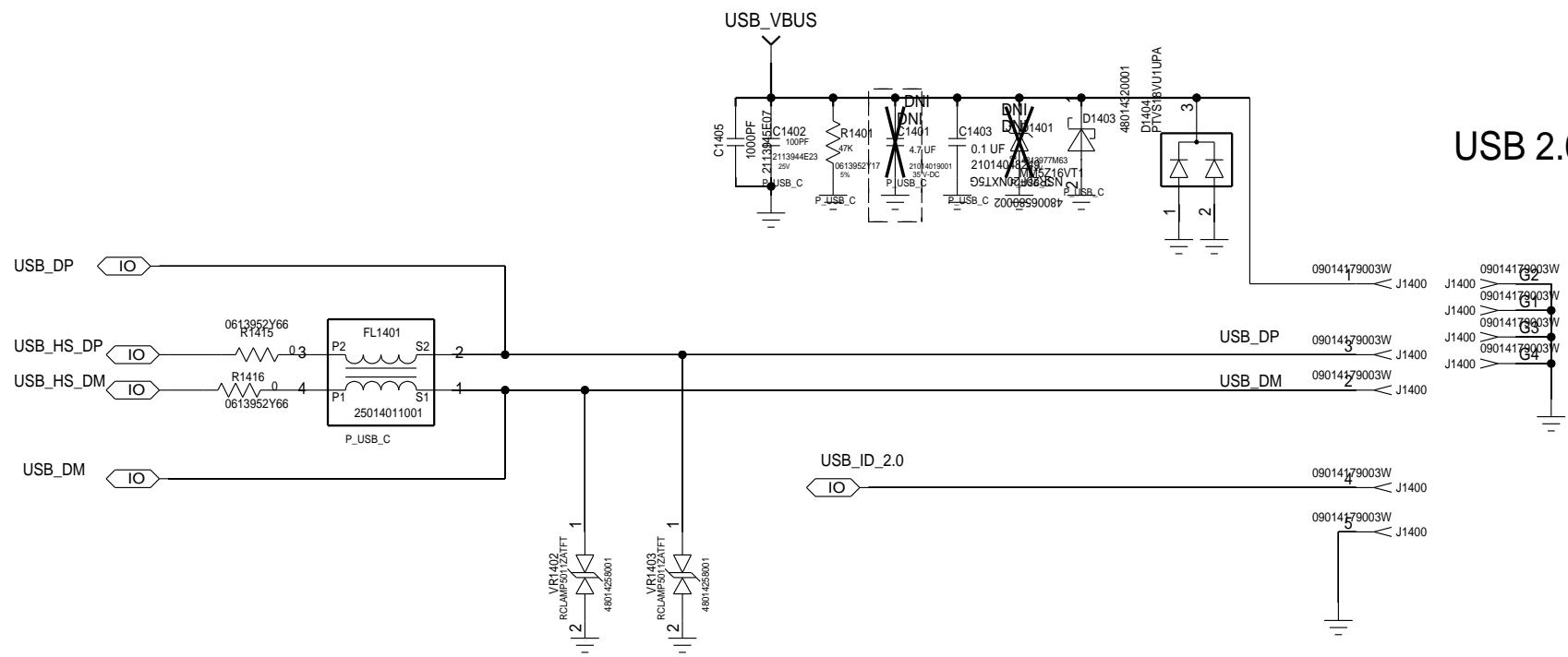


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CAD FILE NAME:	PAGE 18 OF 56	

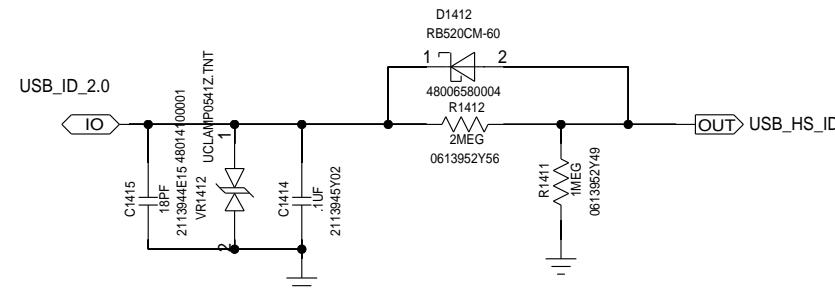
1400:TYPE_C_USB_CONN

REF 1400-1419

MTYPE C USB



USB 2.0



APPROVALS

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MOBILE DEVICES

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BLOCK TITLE:

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Wed Nov 23 09:44:38 2016

power

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B 84016642001_11_1122.cpm
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1420:BATT_CONN

REF 1420-1439

D

D

C

C

B

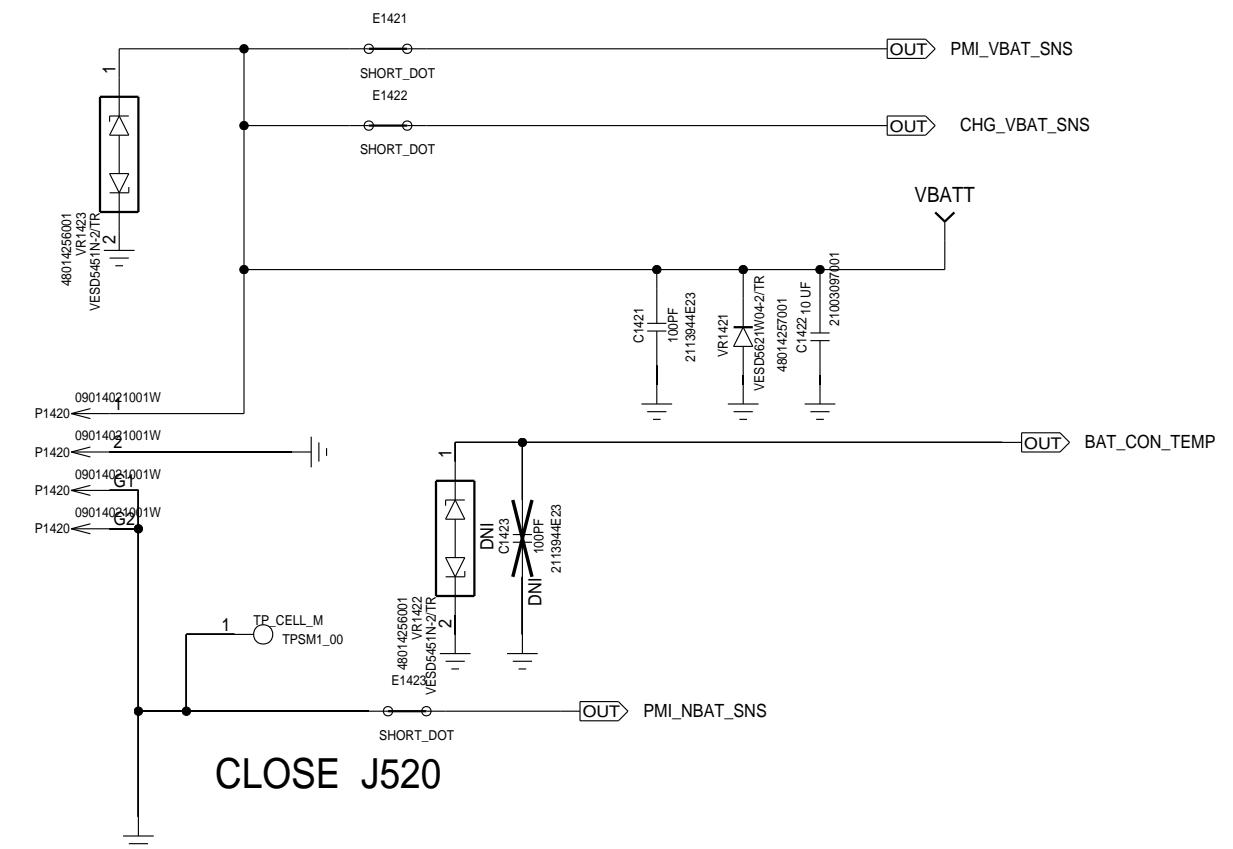
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A

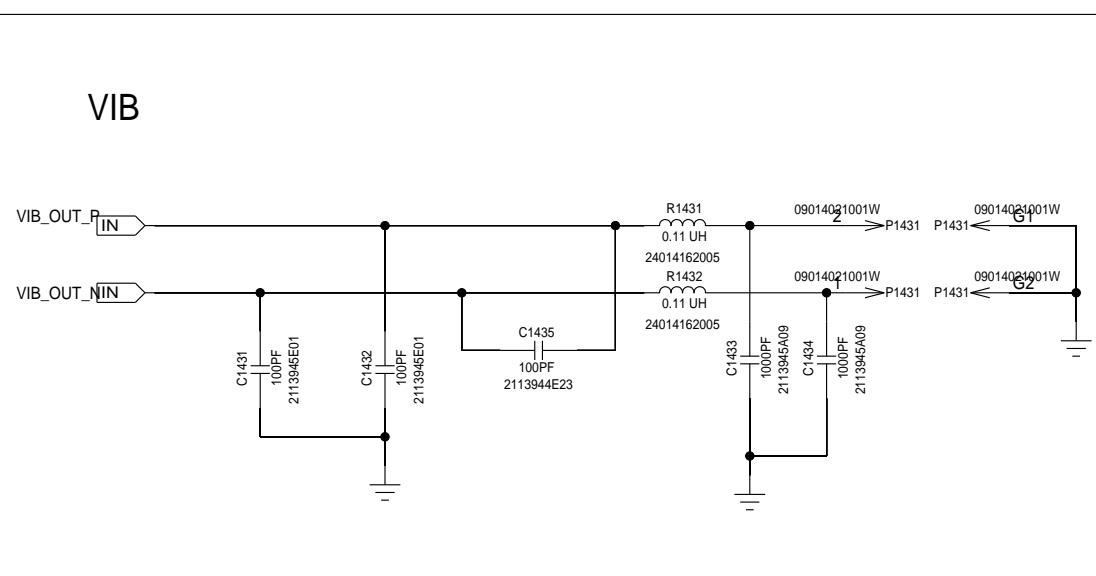
A

BATTERY CONNECTOR

CLOSE J520



VIB

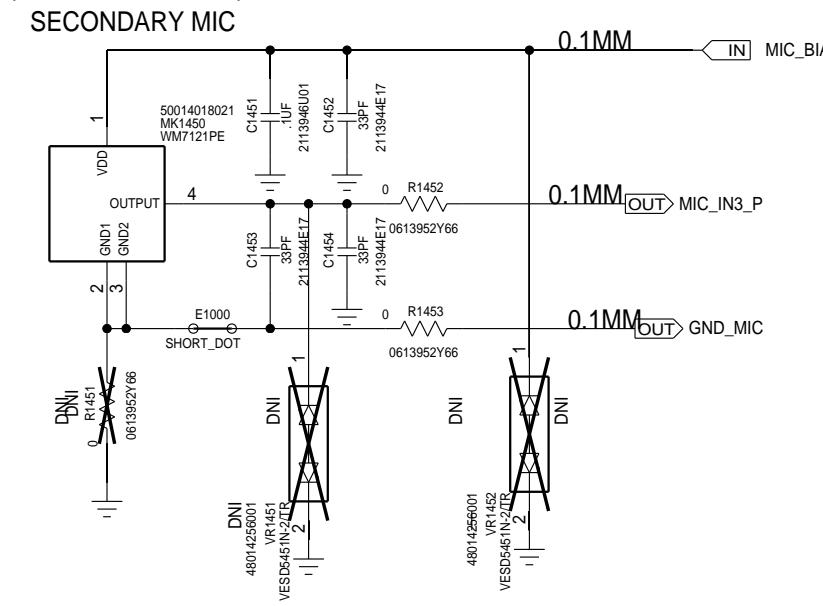


APPROVALS	MOTOROLA MOBILE DEVICES	
ENGINEER:	BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:44:41 2016	power	
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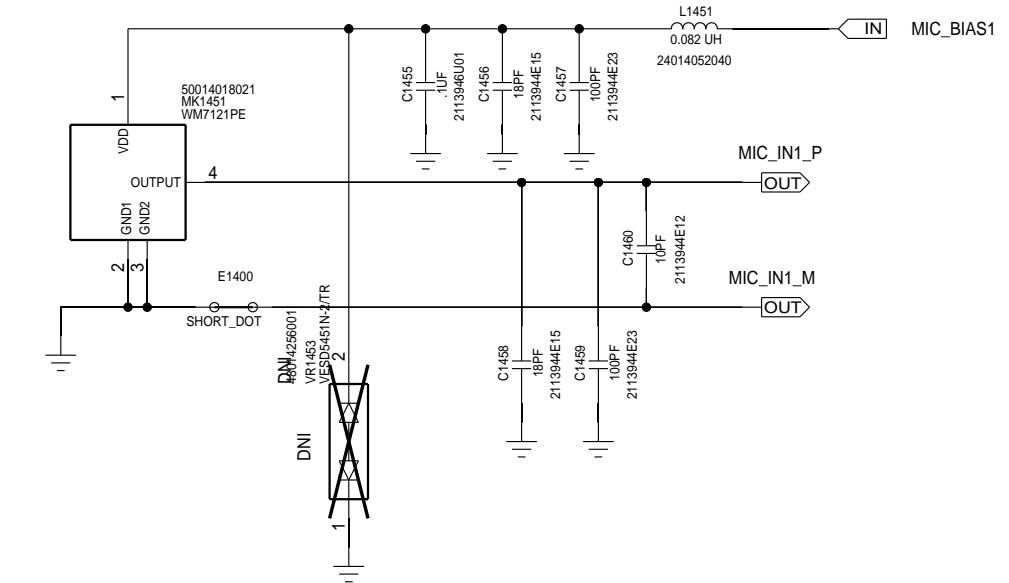
1450:MIC/SPK

REF 1450-1469

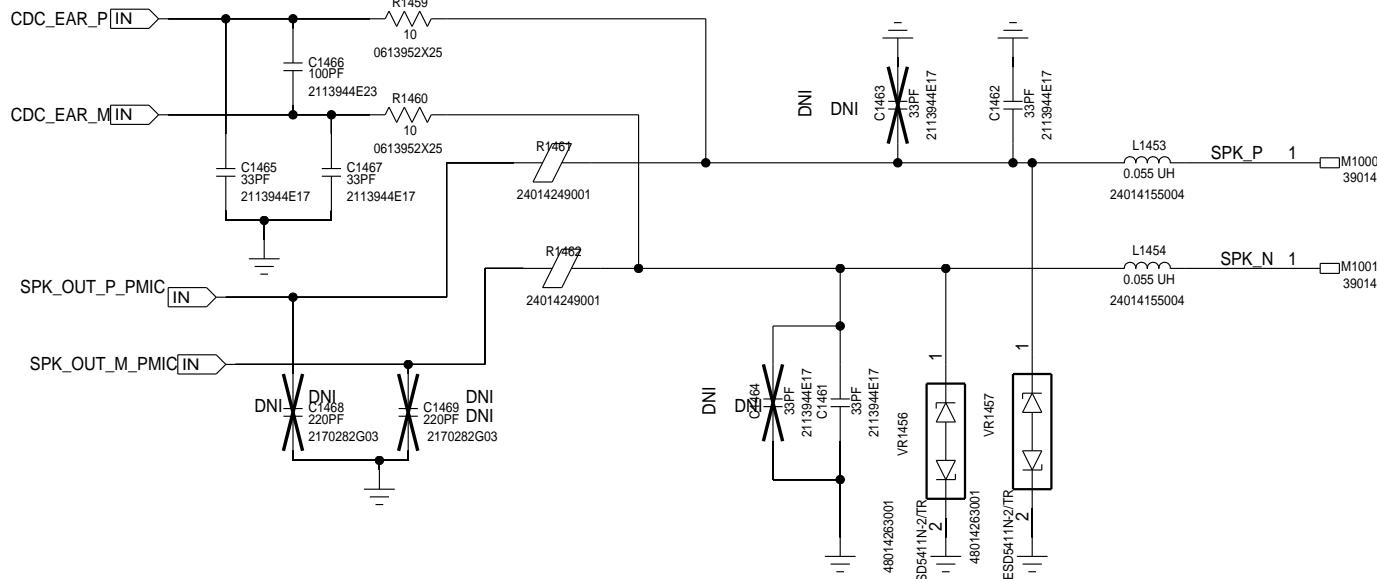
SECONDARY MIC (FLUENCE MIC)



PRIMARY MIC



RECEIVER+SPK



APPROVALS

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MOBILE DEVICES

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Wed Nov 23 09:44:44 2016

audio_fe

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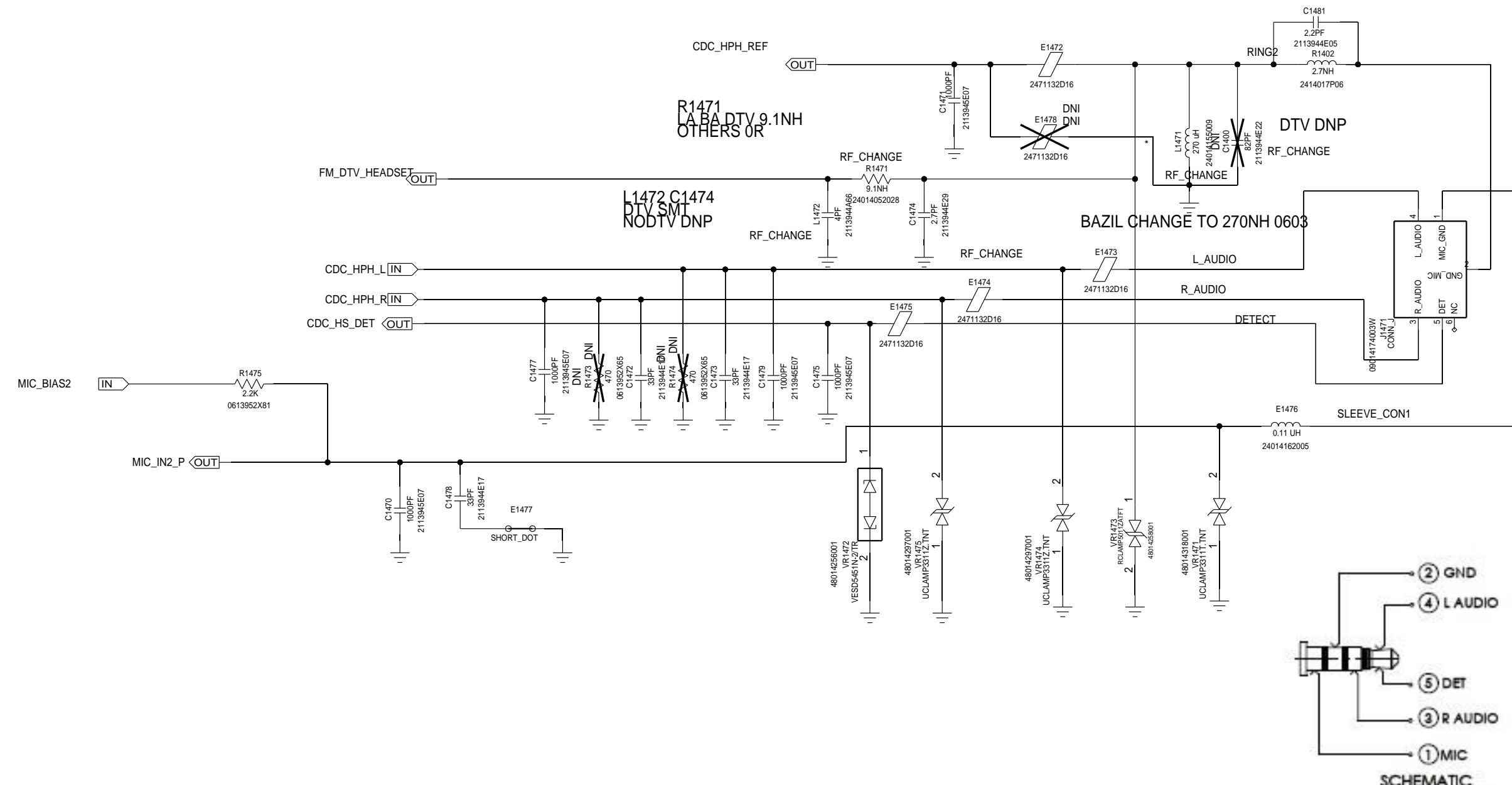
PROJECT NAME
B 84016642001_11_1122.cpm

REV
01

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1470:earphone jack
REF 1470-1479



APPROVALS	 MOTOROLA MOBILE DEVICES		
ENGINEER:	BLOCK TITLE:		
LAST MODIFIED BY: Wed Nov 23 09:44:47 2016	audio_fe		
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	CAD FILE NAME:		PAGE 22 OF 56

1480:SMART BOOST PA

REF 1480-1499

*** BOOST IC I2C ADD. 0X80

I2C ADDR:0X98/99

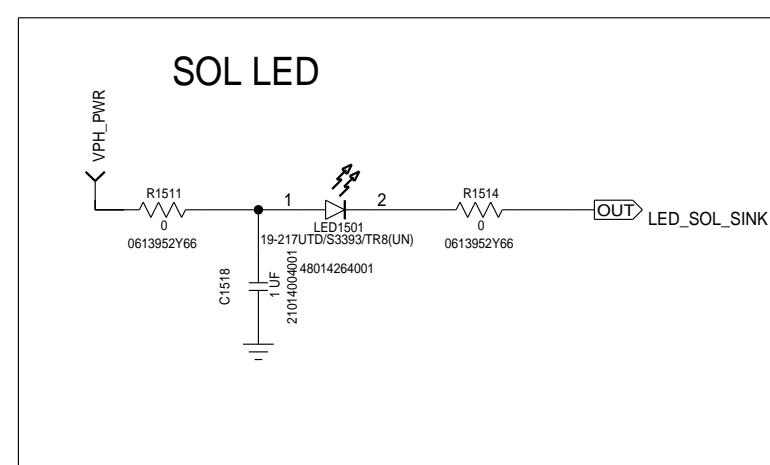
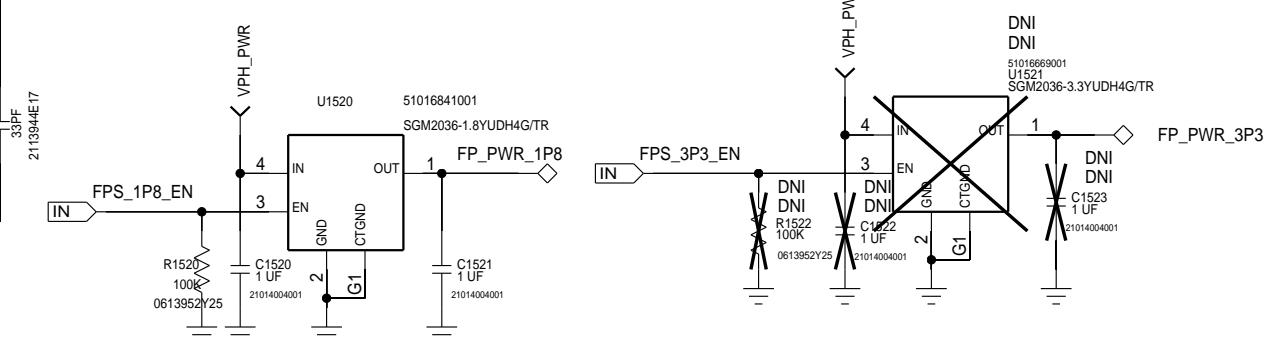
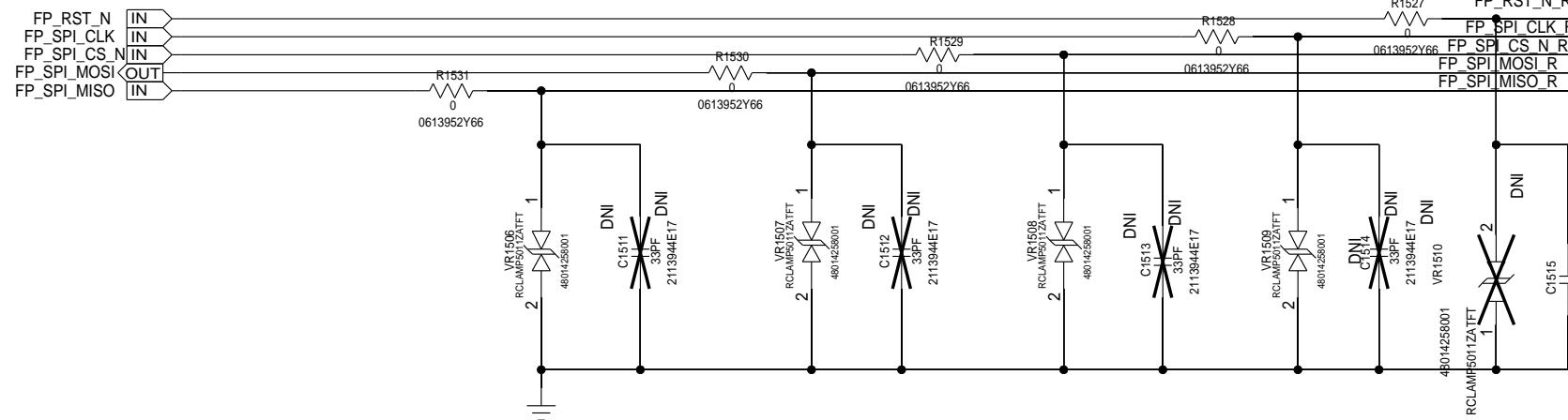
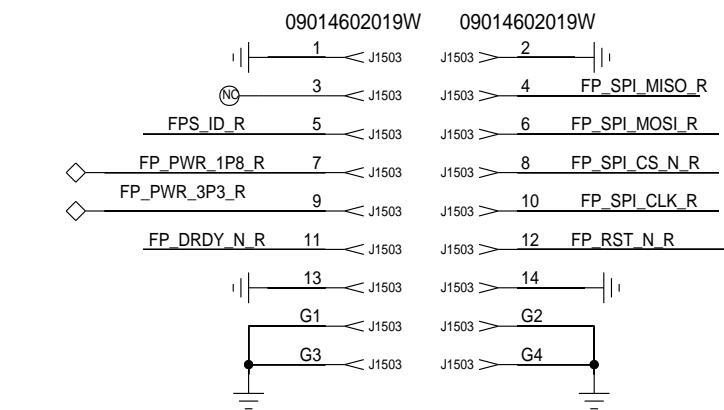
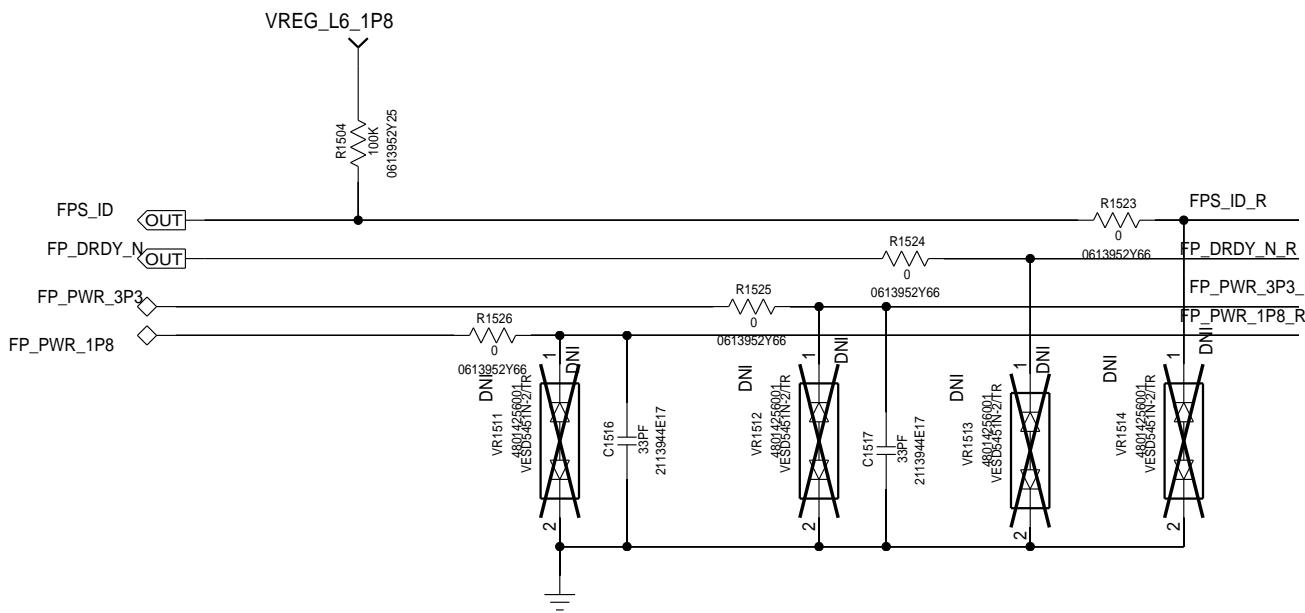
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	CAD FILE NAME:	PAGE 23 OF 56

1500:Fingerprint

REF 1500-1599

D

D

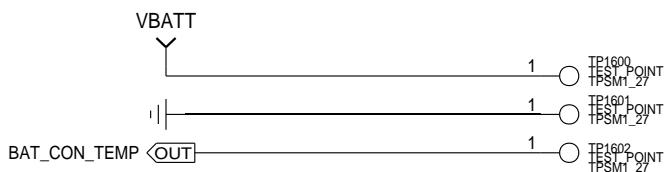


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Wed Nov 23 09:44:54 2016		connectivity_bb	
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CAD FILE NAME:		REV 01	

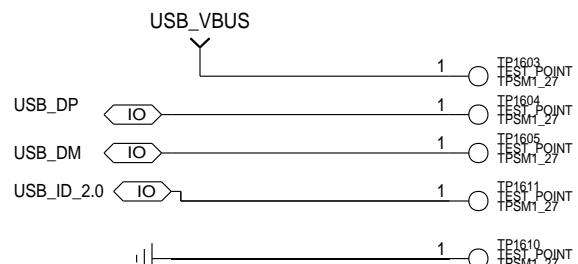
1600:Test point and Shield

REF 1600-1699

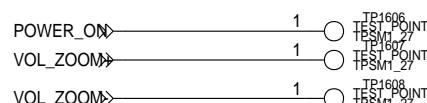
FACTORY TEST POINT FOR BATTERY



FACTORY TEST POINT FOR USB



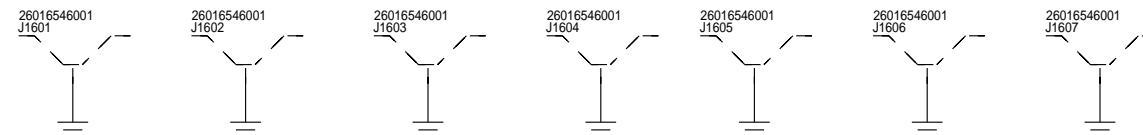
FACTORY TEST POINT FOR SIM1



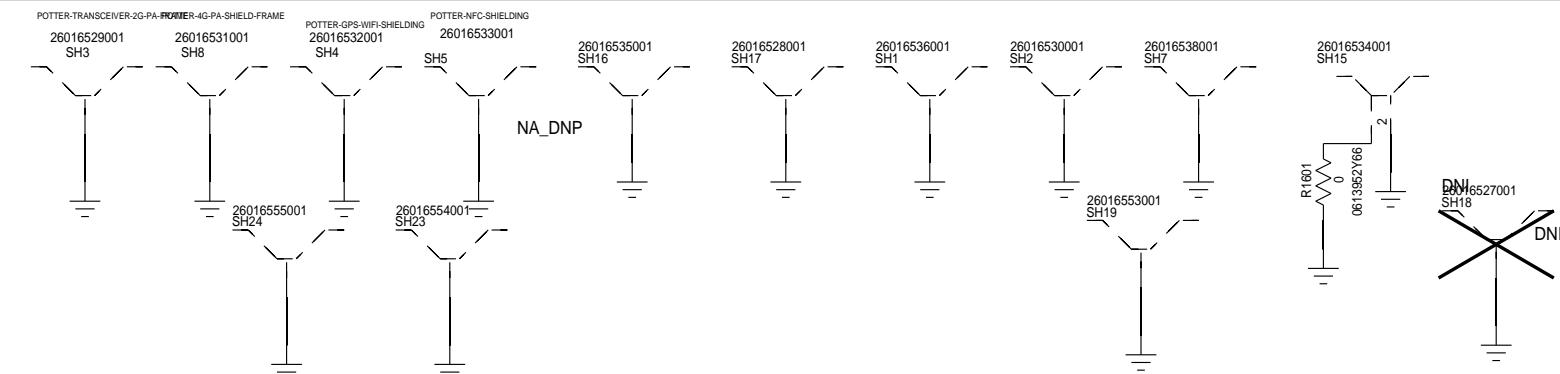
SPRING



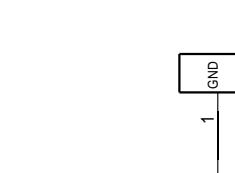
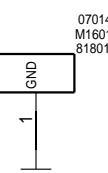
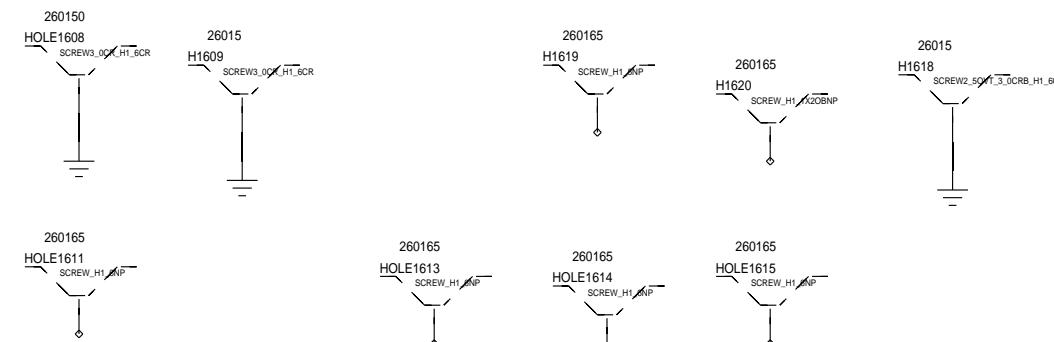
SMT PAD



SHIELDS



SCREW



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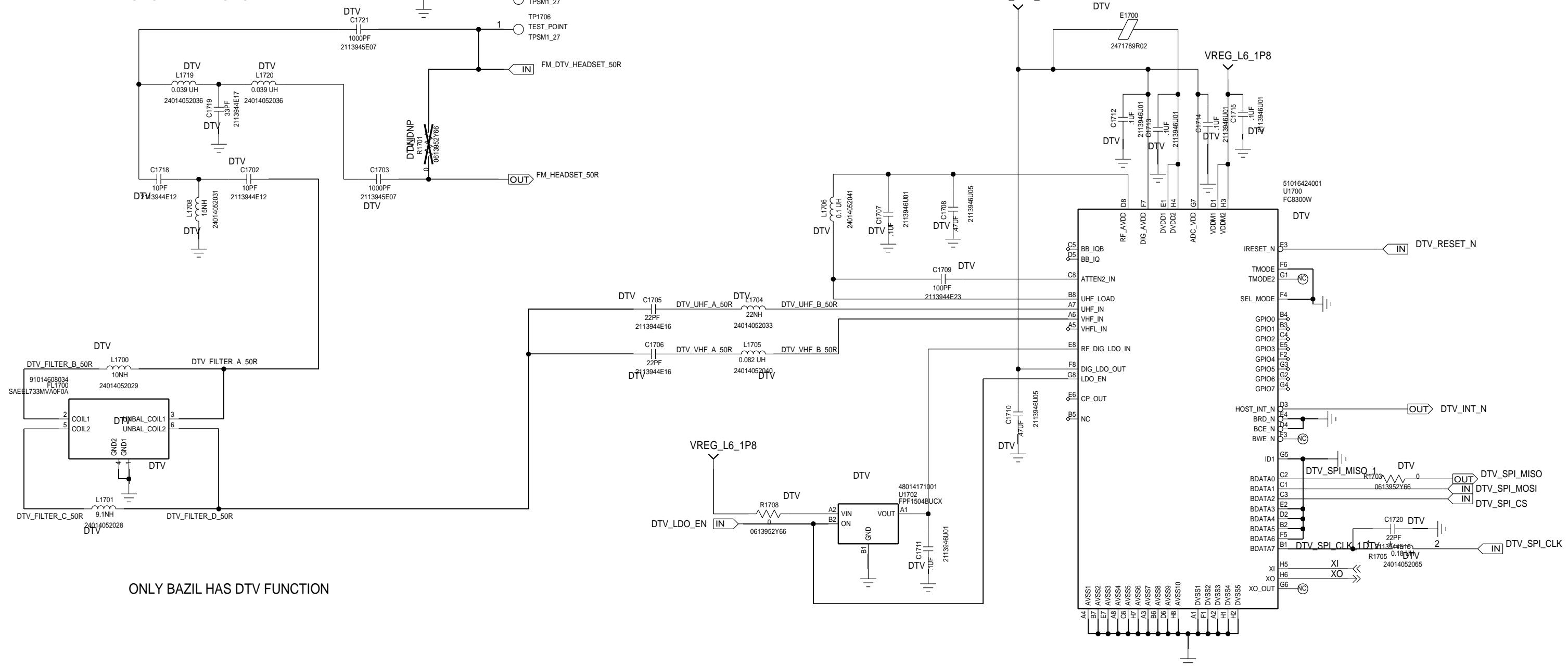
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B 84016642001_11_1122.cpm REV
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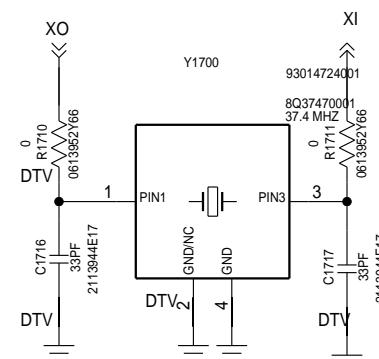
PAGE 25 OF 56

1700:DTV

REF 1700-1799

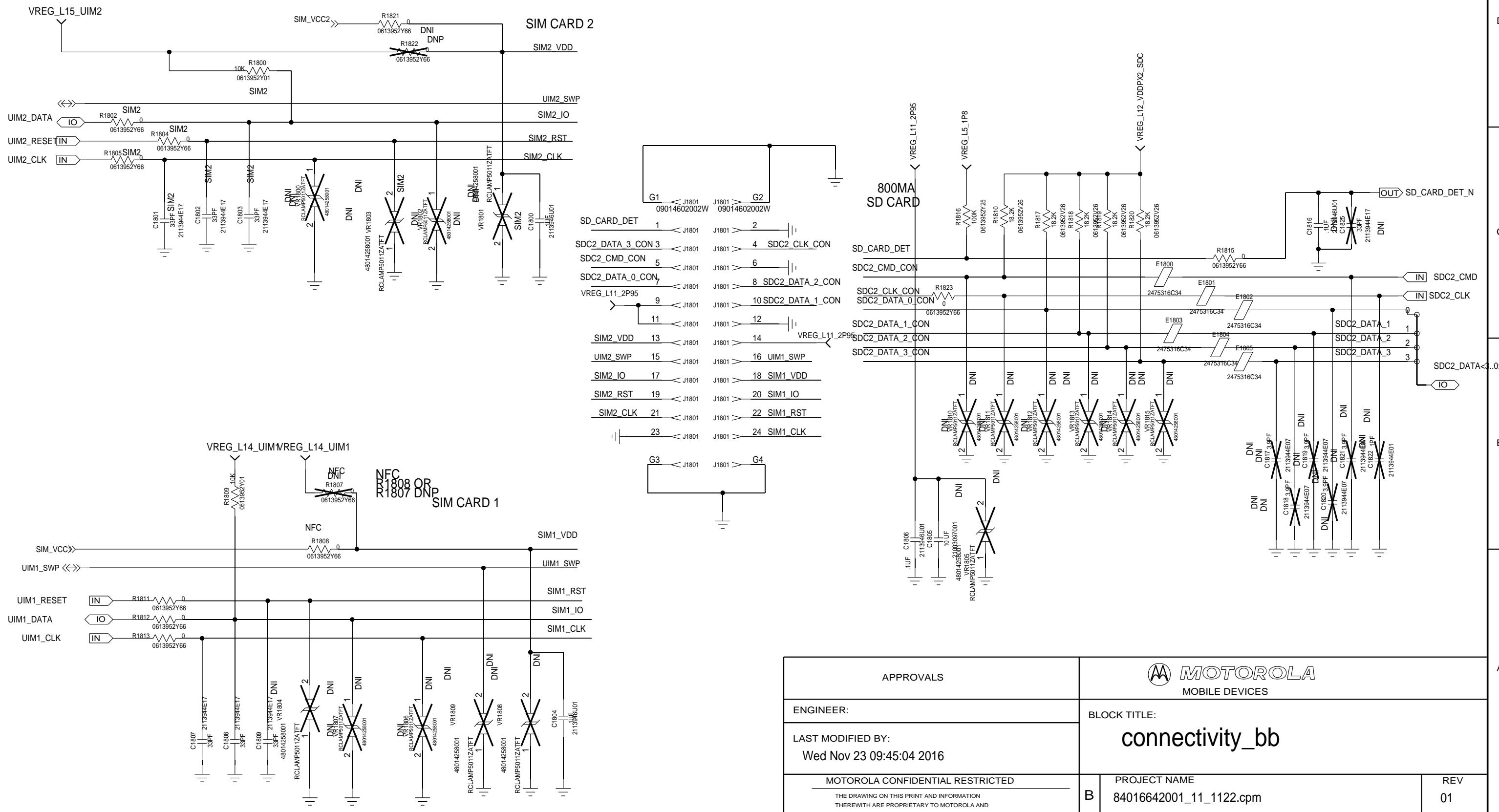


ONLY BAZIL HAS DTV FUNCTION



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1800:SIM/SD_CONN
REF 1800-1839



APPROVALS

The logo consists of the word "MOTOROLA" in a bold, outlined font, with "MOBILE DEVICES" in a smaller, solid black font below it. To the left of the text is the iconic Motorola "M" logo, which is a stylized letter "M" enclosed in a circle.

ENGINE

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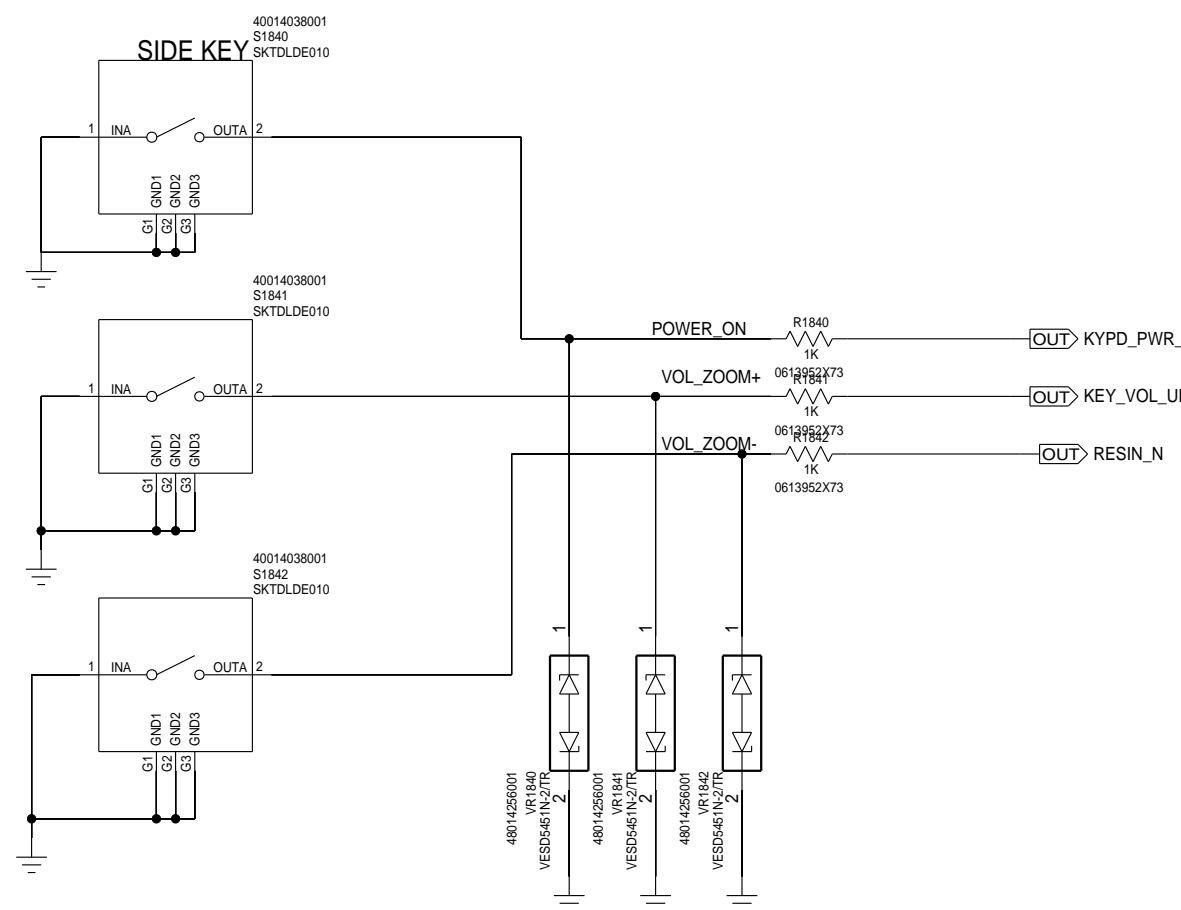
B PROJECT NAME
84016642001_11_1122.cpm

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1840:KEYPAD

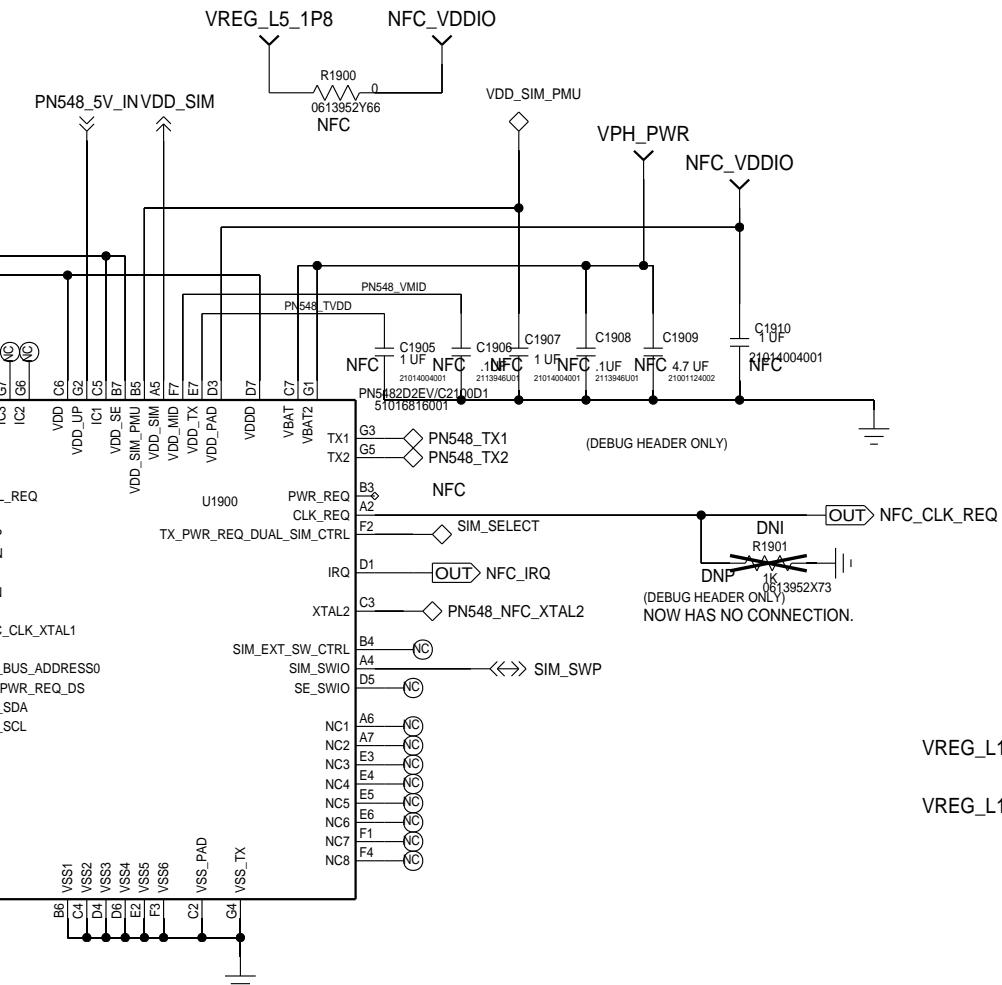
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		PAGE 28 OF 56	

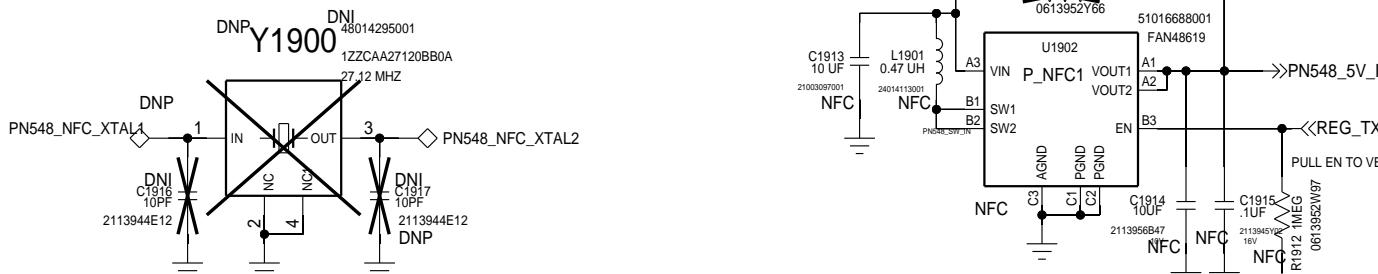
1900:NXP NFC

REF 1900-1919

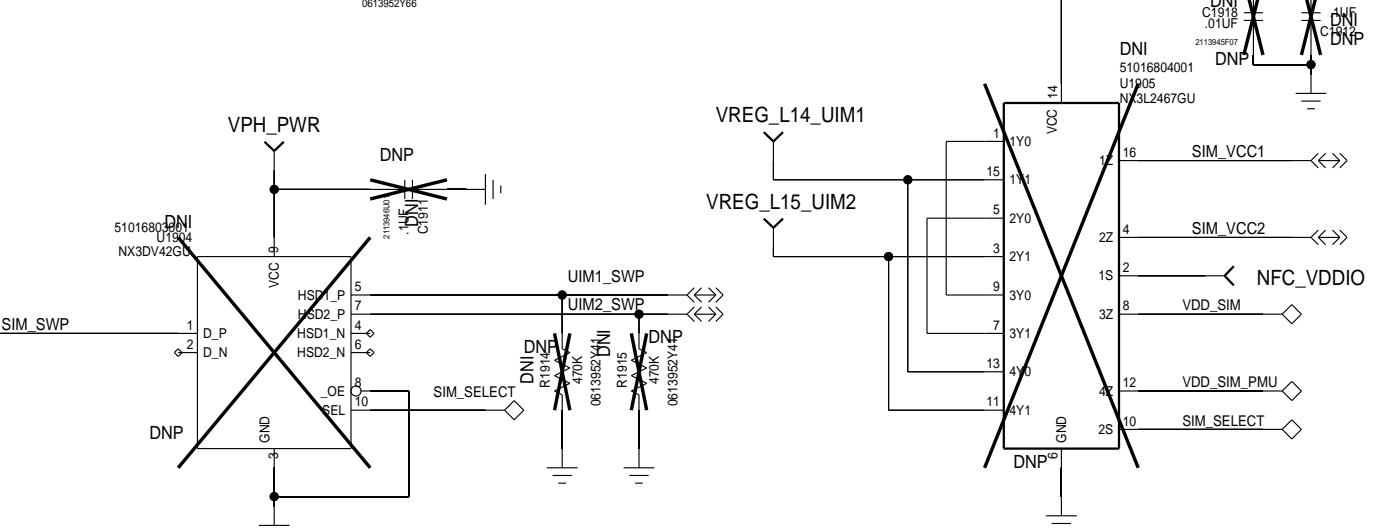
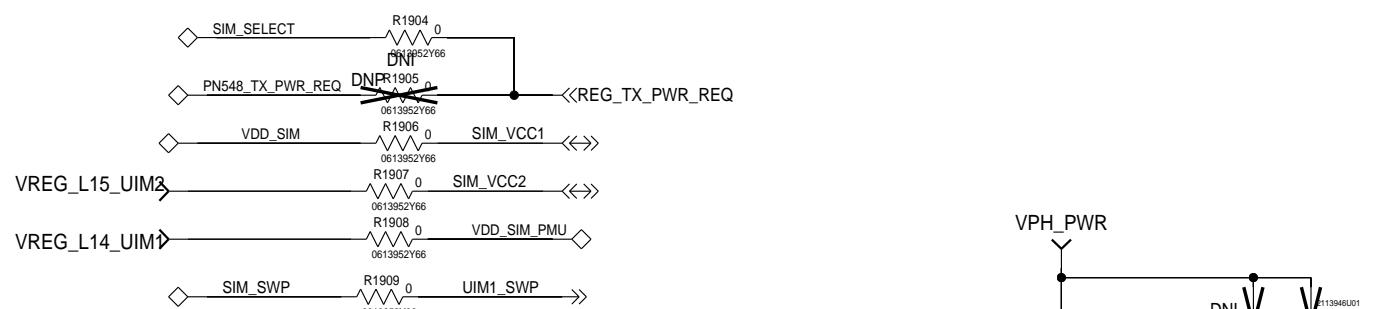


REFERENCE DESIGNATOR 27.12 MHZ CRYSTAL OSCILLATOR 19.2 MHZ EXTERNAL CLOCK

C1916	PLACE
C1917	PLACE
R1902	DNI
Y1900	PLACE



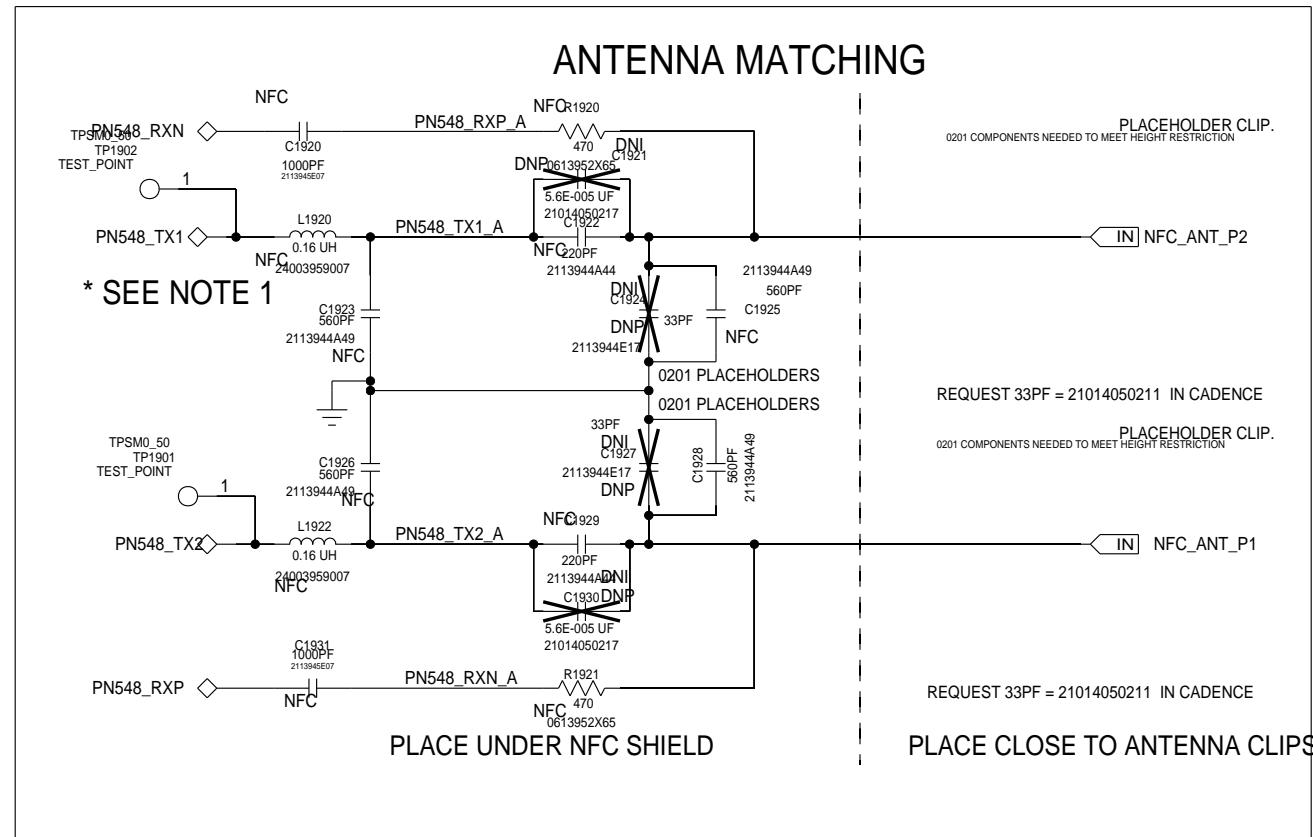
True Table	Phone ON		Phone OFF/LPM	
	SIM_Select (LOW = SIM 1)	SIM_Select (High = SIM 2)	SIM_Select (LOW = SIM 1)	SIM_Select (High = SIM 2)
VDD_SIM_PMU	Vreg_L14_UIM1 Com4-NC4	Vreg_L15_UIM2 Com4-ND4	No power from PMU Com4-NC4-ND1-open	No power from PMU Com4-ND4-ND2-open
VDD_SIM	No connect Com3-NC3-NC1-open	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



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1920:NXP NFC ANT Match

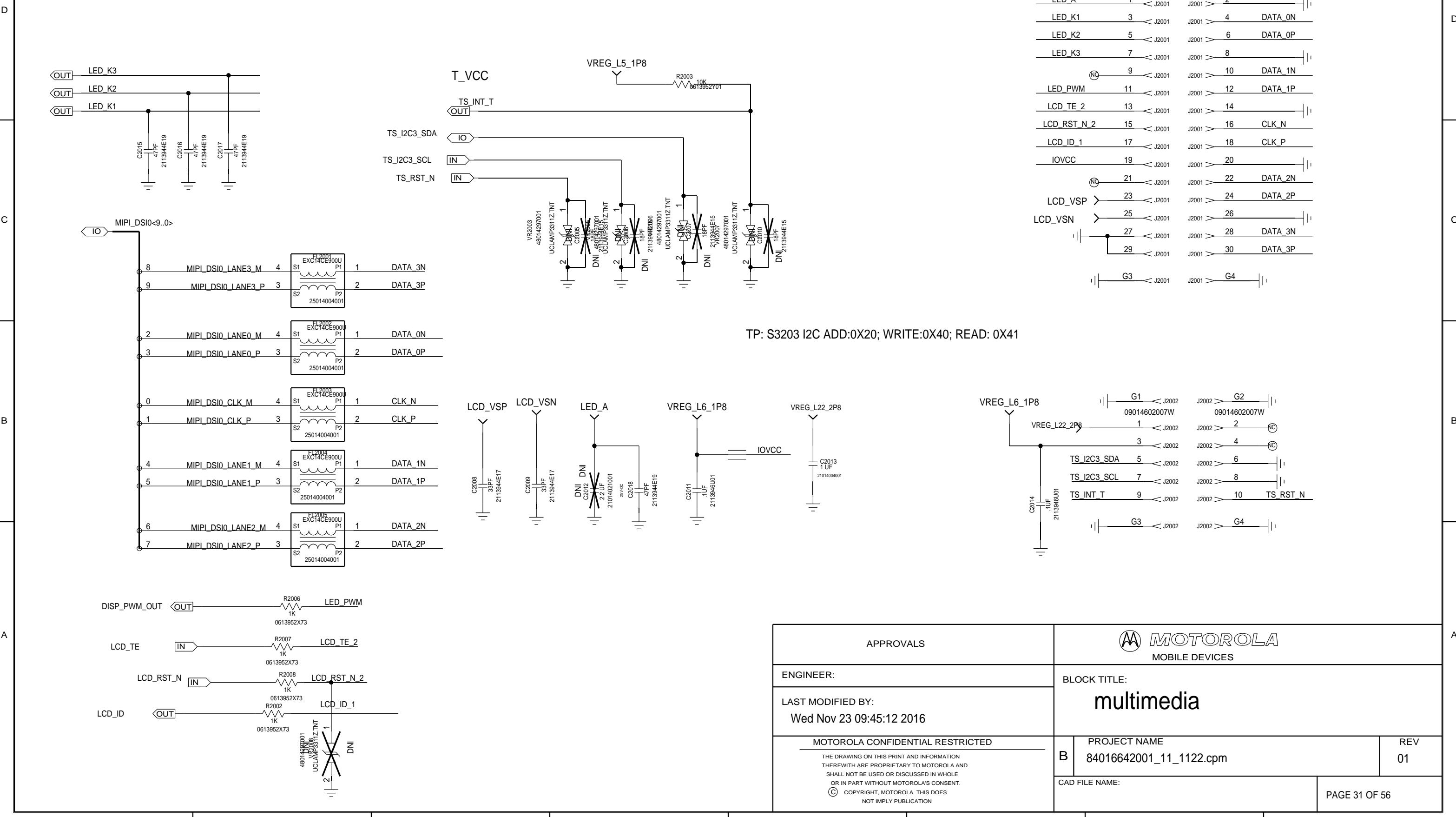
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2000:LCD

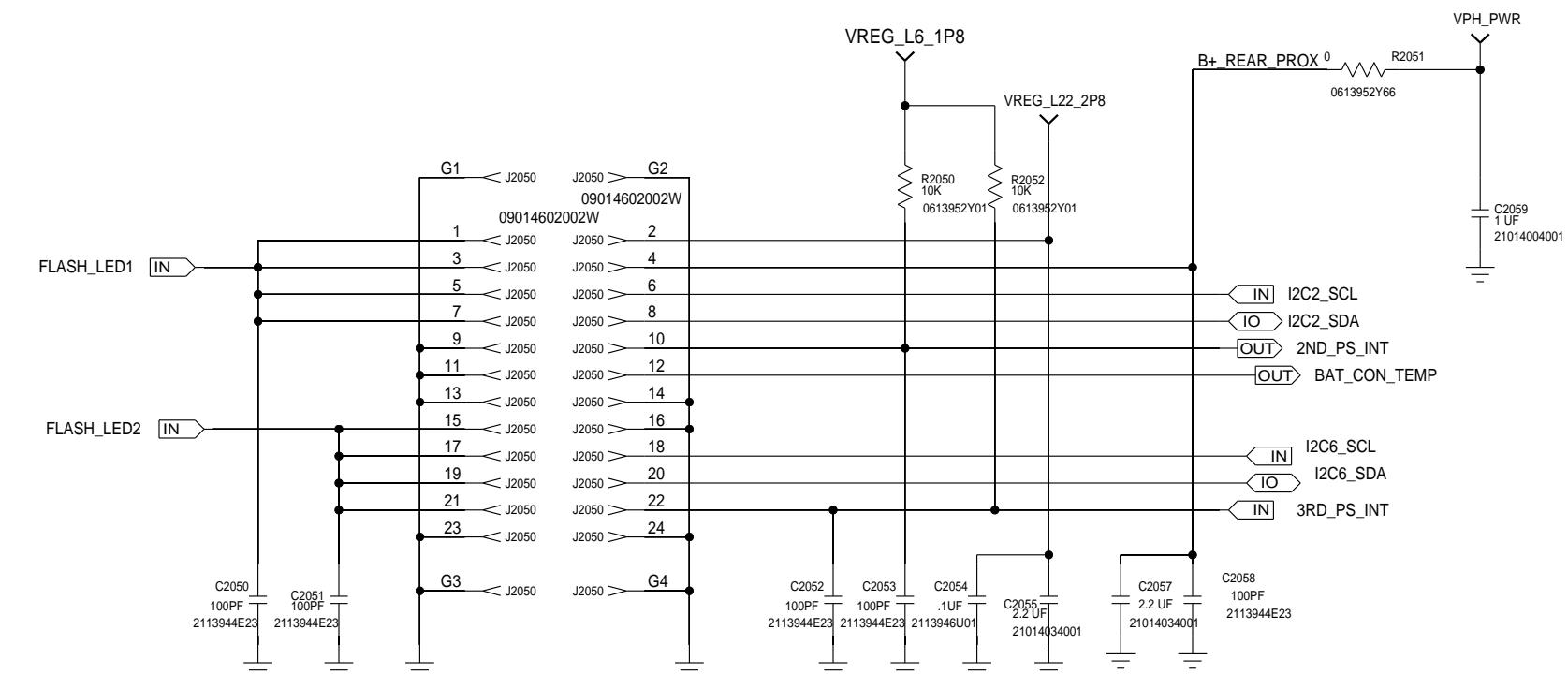
REF 2000-2049



2050:LASER FOCUS & FLASH CONN

REF 2050-2069

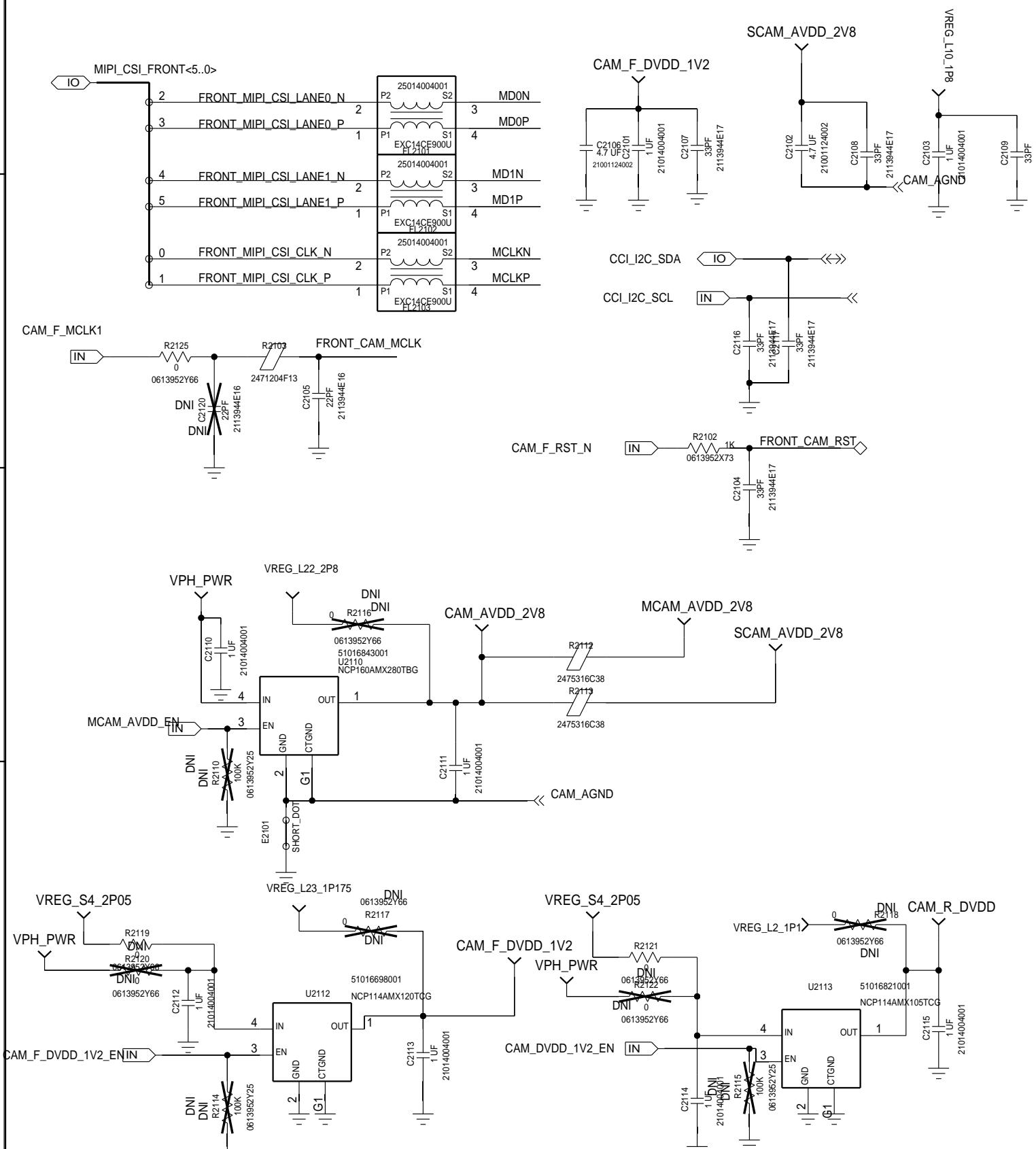
FRONT FLASH LED



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2100:FRONT camera

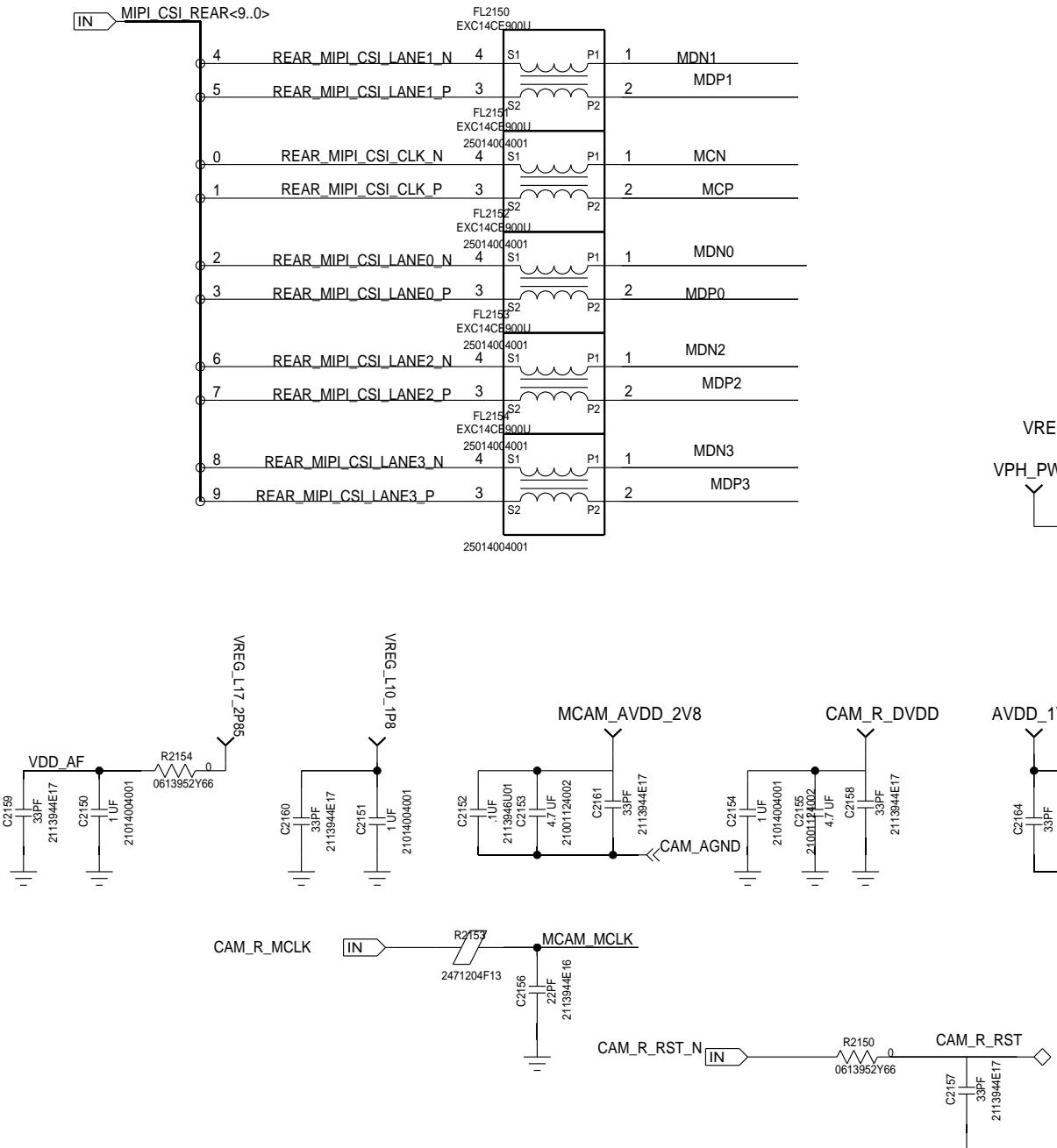
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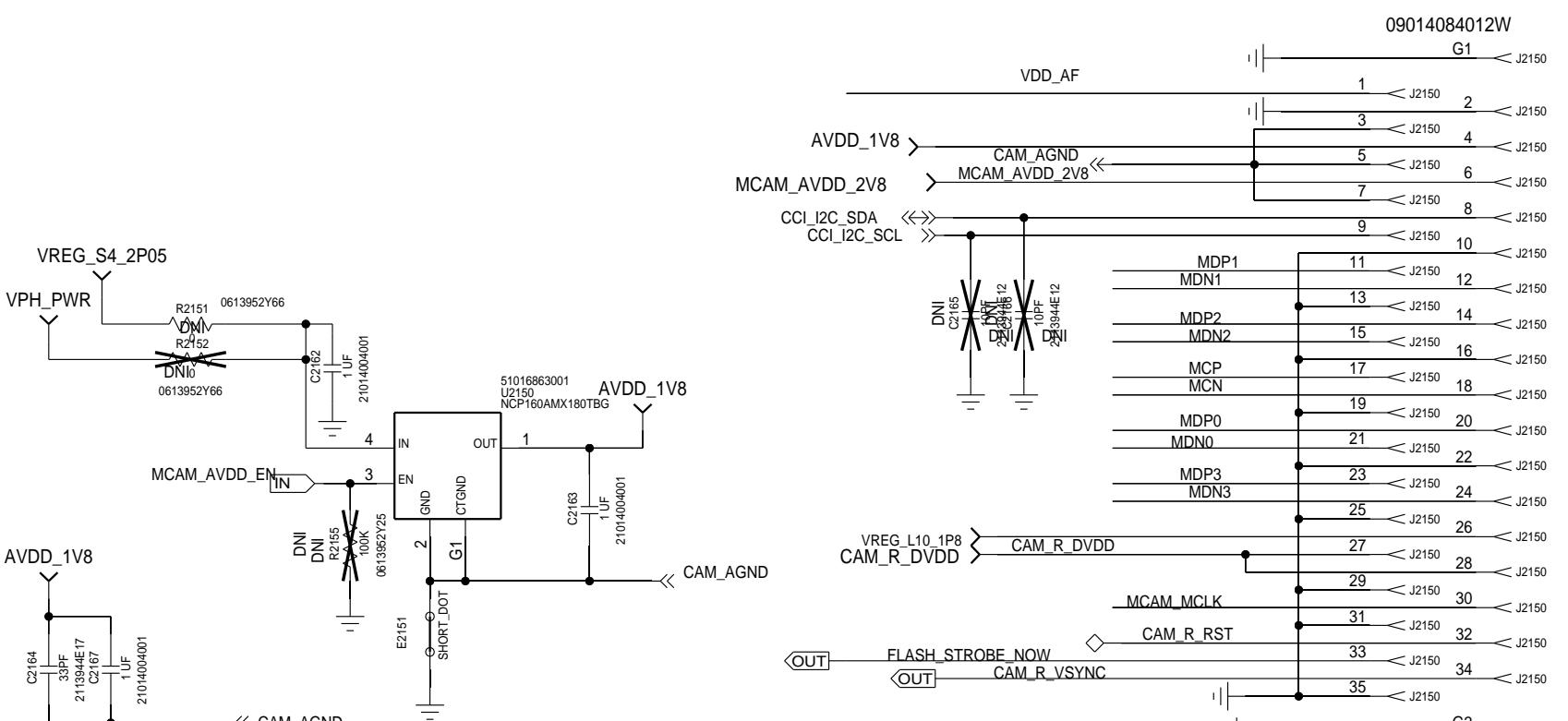
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2150:REAR CAMERA

REF 2150-2199



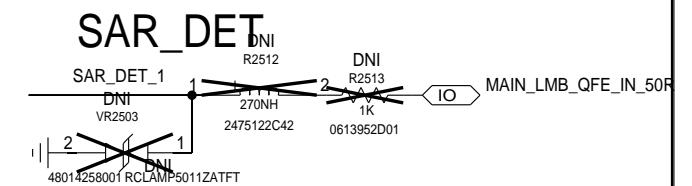
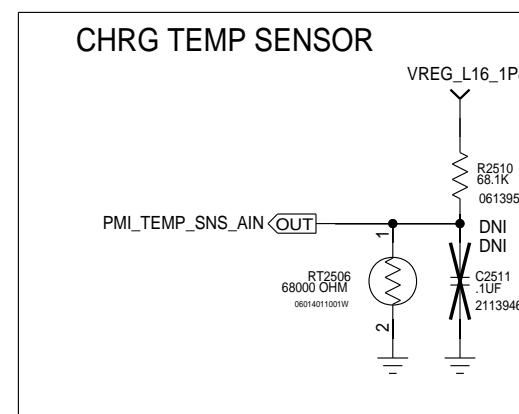
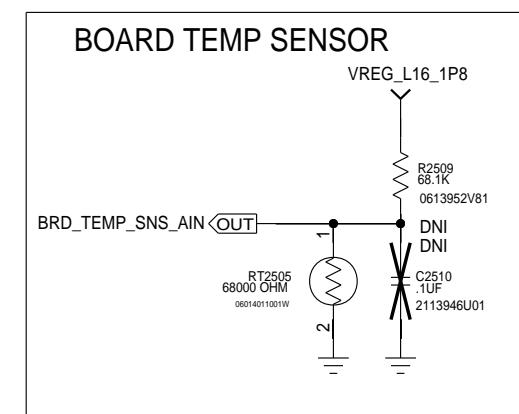
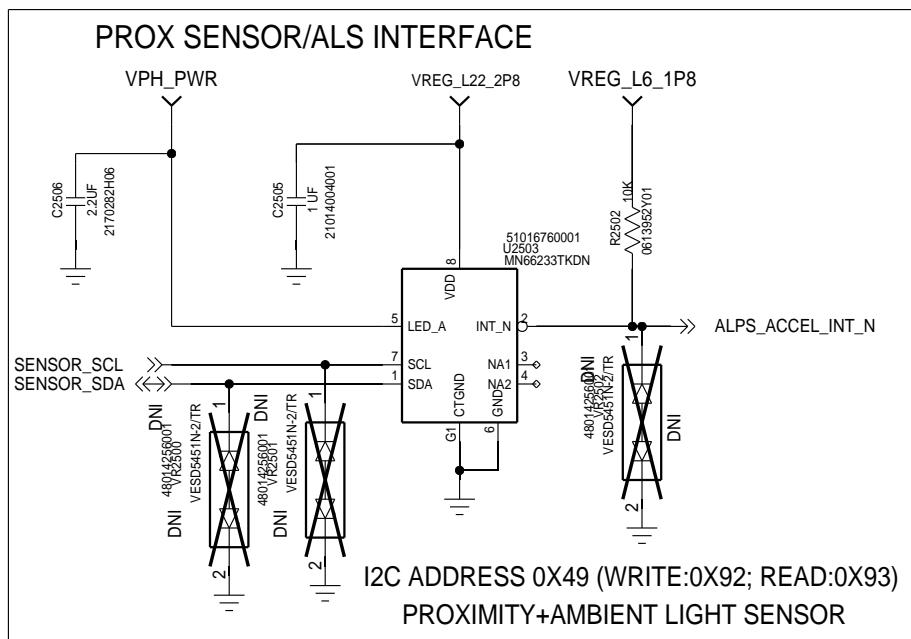
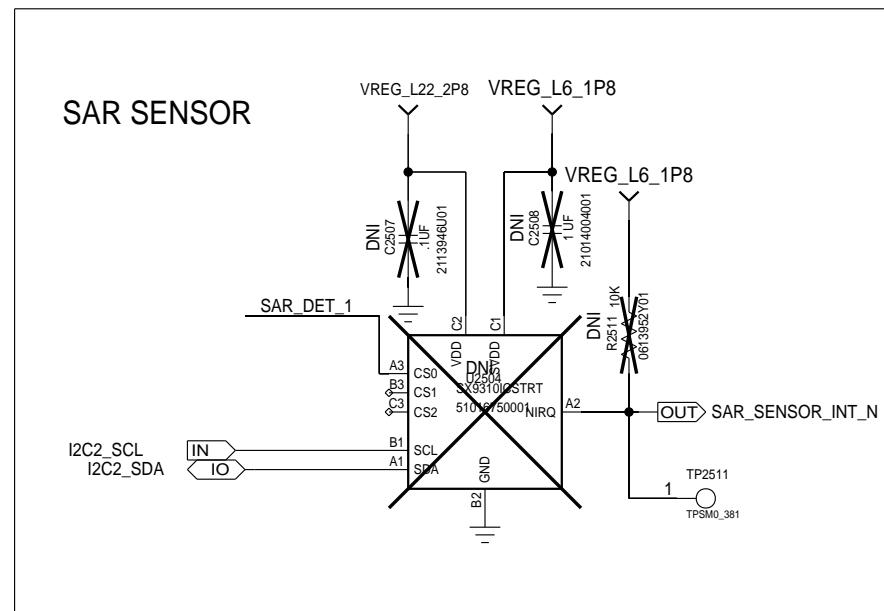
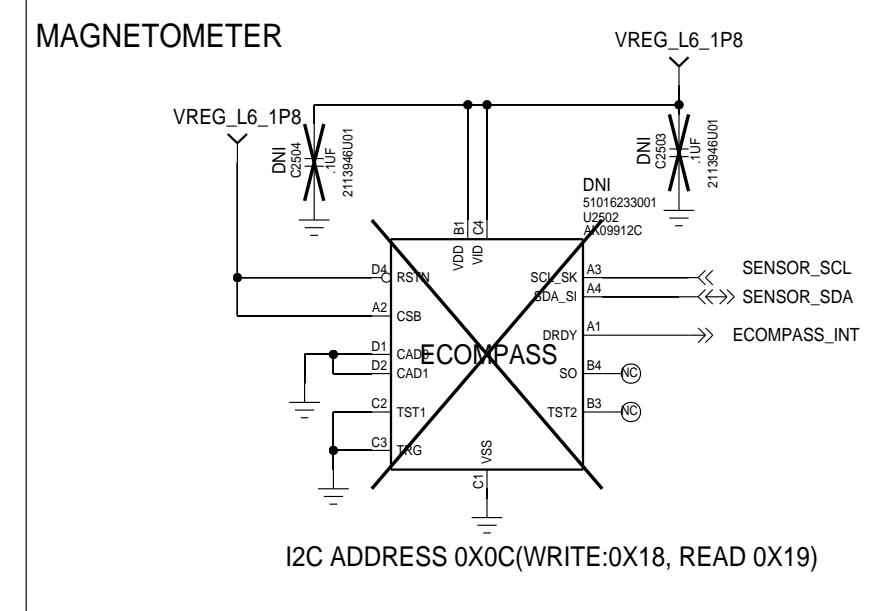
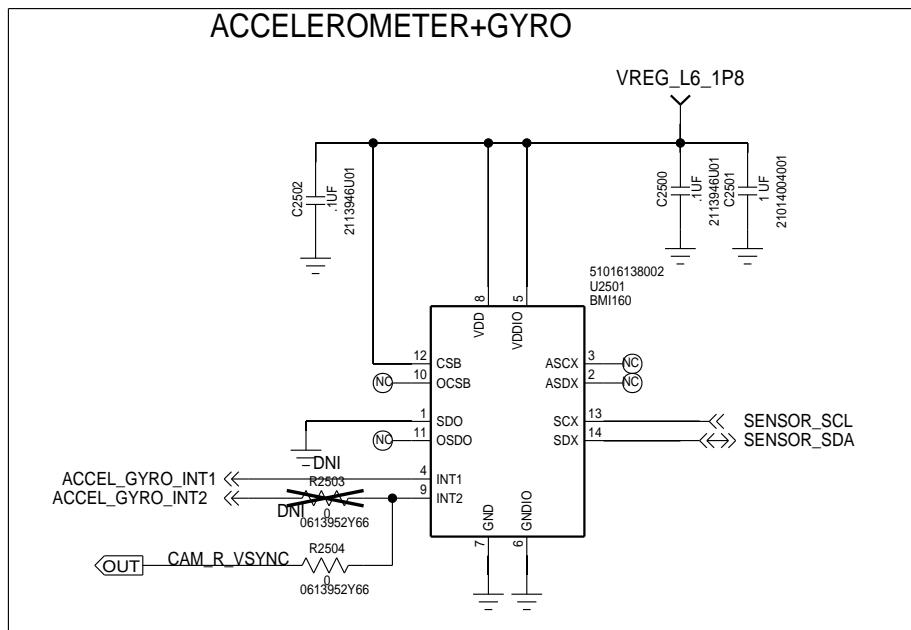
	Information Item	Desc	Remark
1	Vendor reference schematic of sensor	IMX362_COB_DS_1.0_Primax	
2	Power voltage	AVDD:2.8 ± 0.1 V DVDD:1.05 ± 0.1 DOVDD:1.8 ± 0.1 AFVCC:2.6~3.6V	
3	I2C Address:	Sensor:0X20 (W), 0X21 (R) Driver:0XE4 (W), 0XE5 (R) EEPROM:0XA0 (W), 0XA1 (R)	



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2500:sensor

REF 2500-2519

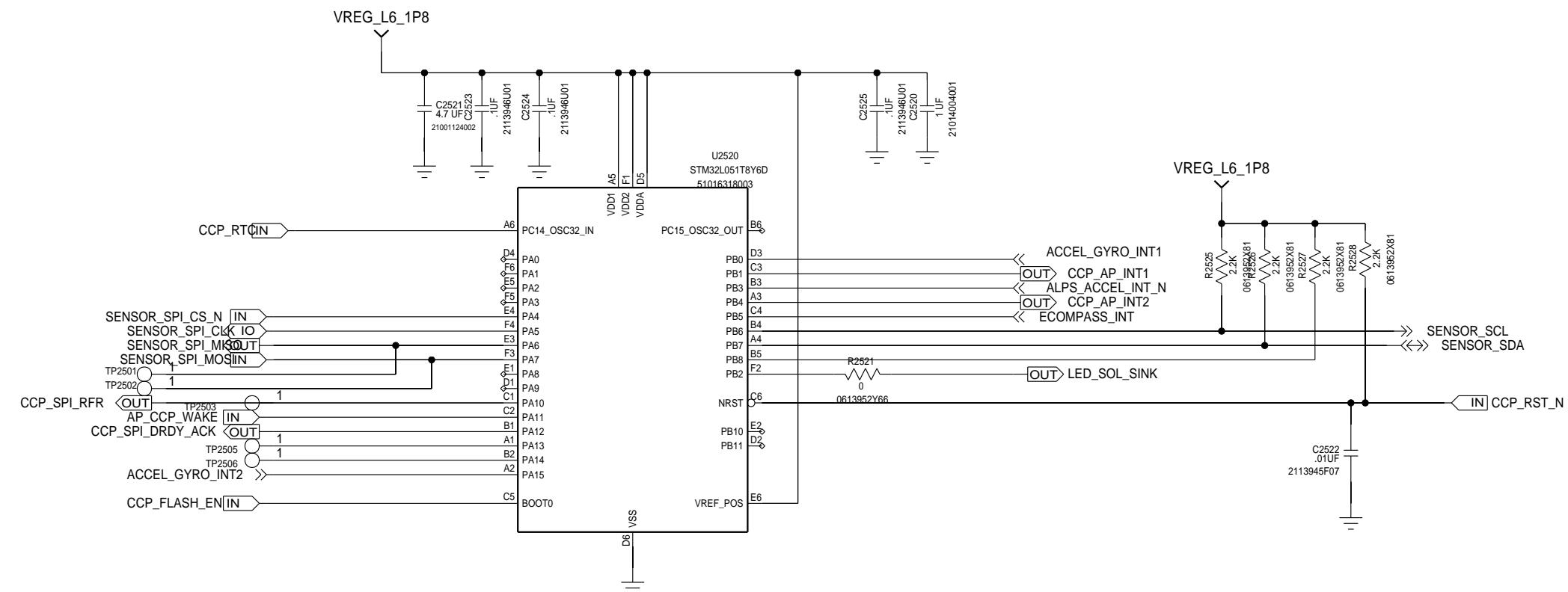


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MOTOROLA
MOBILE DEVICES

2520:CCP

REF 2520-2539

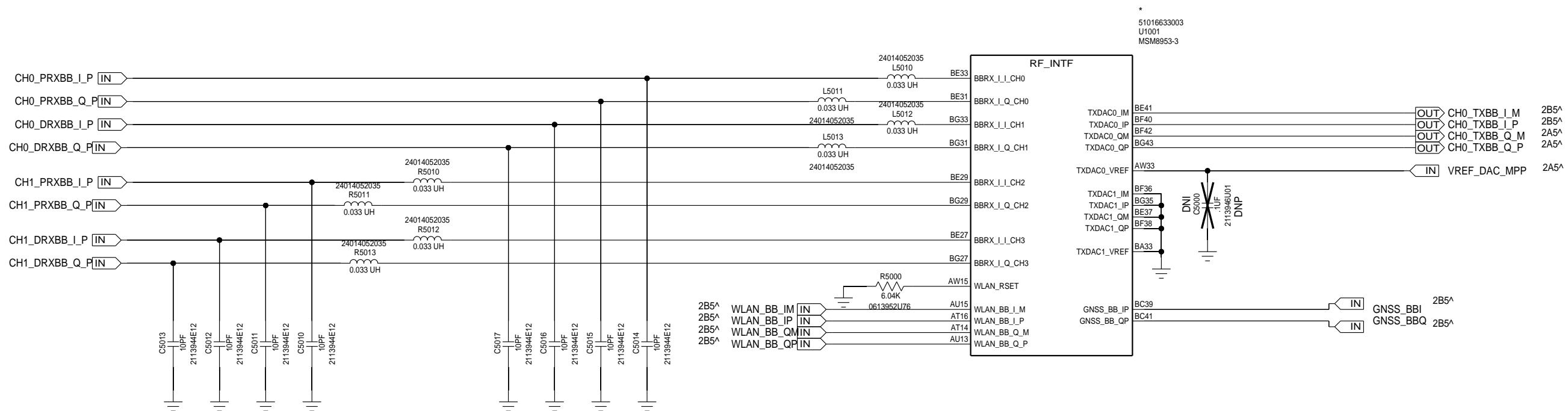


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5000:rf interface

REF 5000-5499

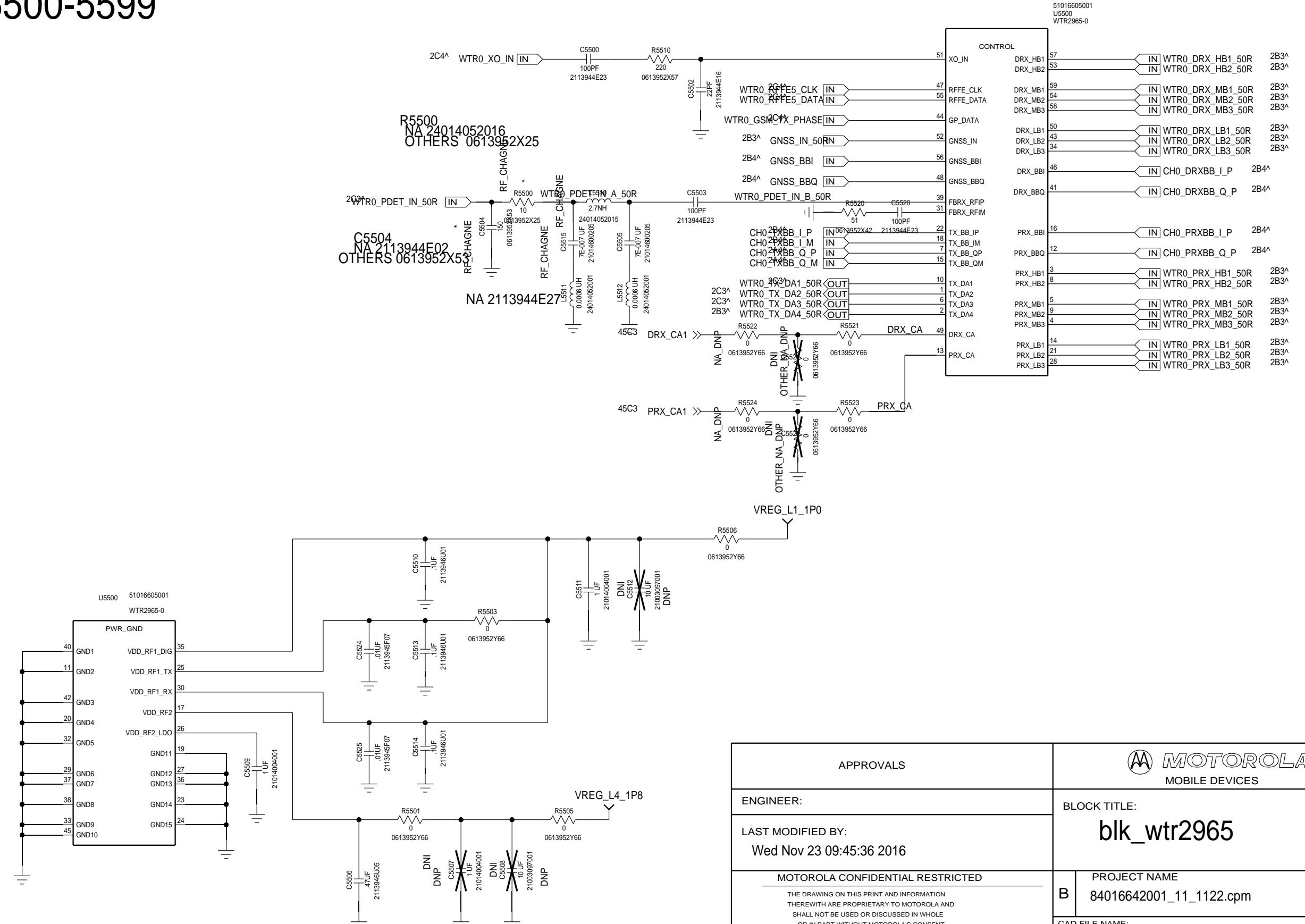
MSM8916 RF INTERFACE



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5500:wtr2965-0
REF 5500-5599

WTR4905 CONTROL,PWR&GND

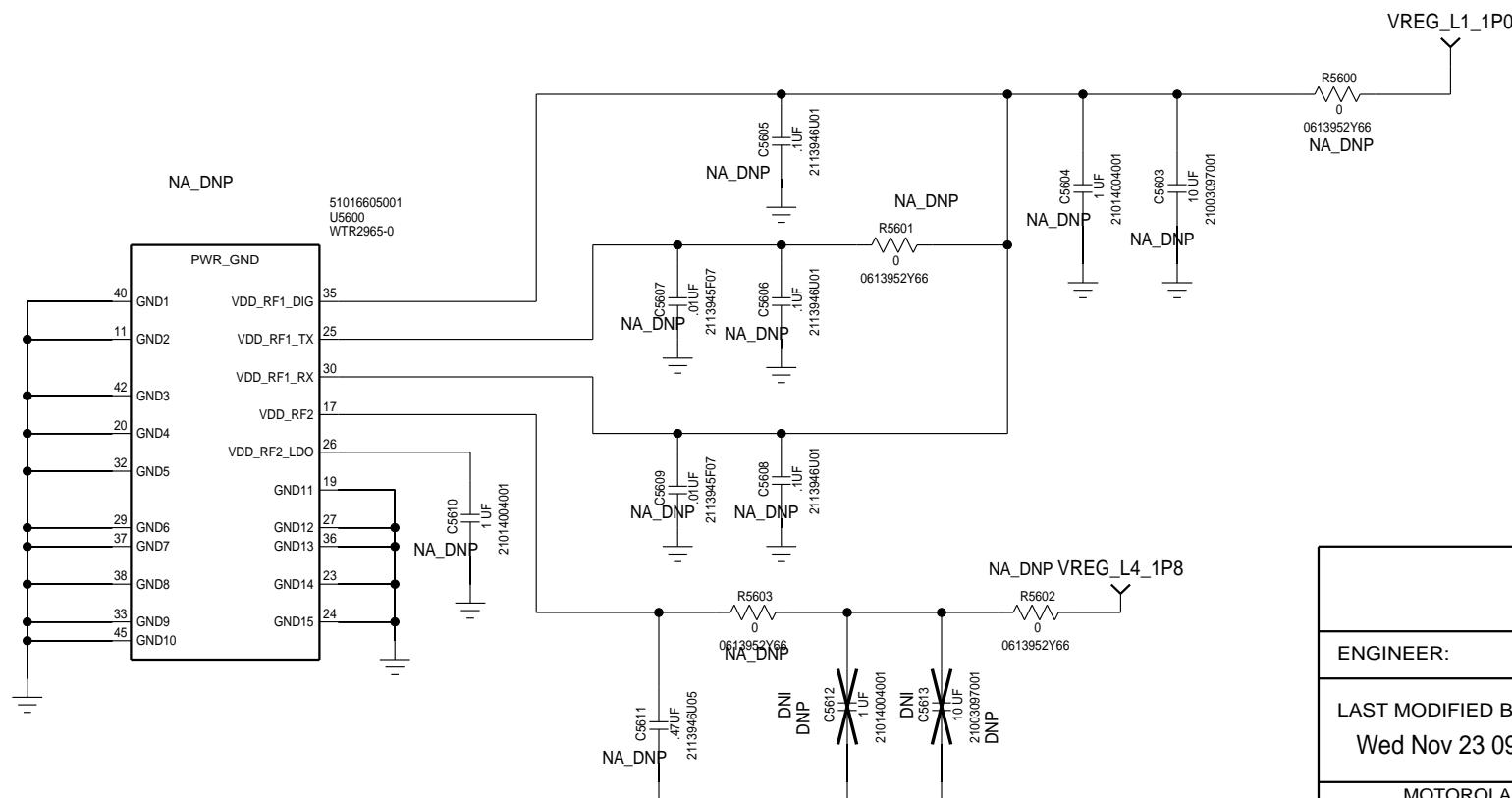
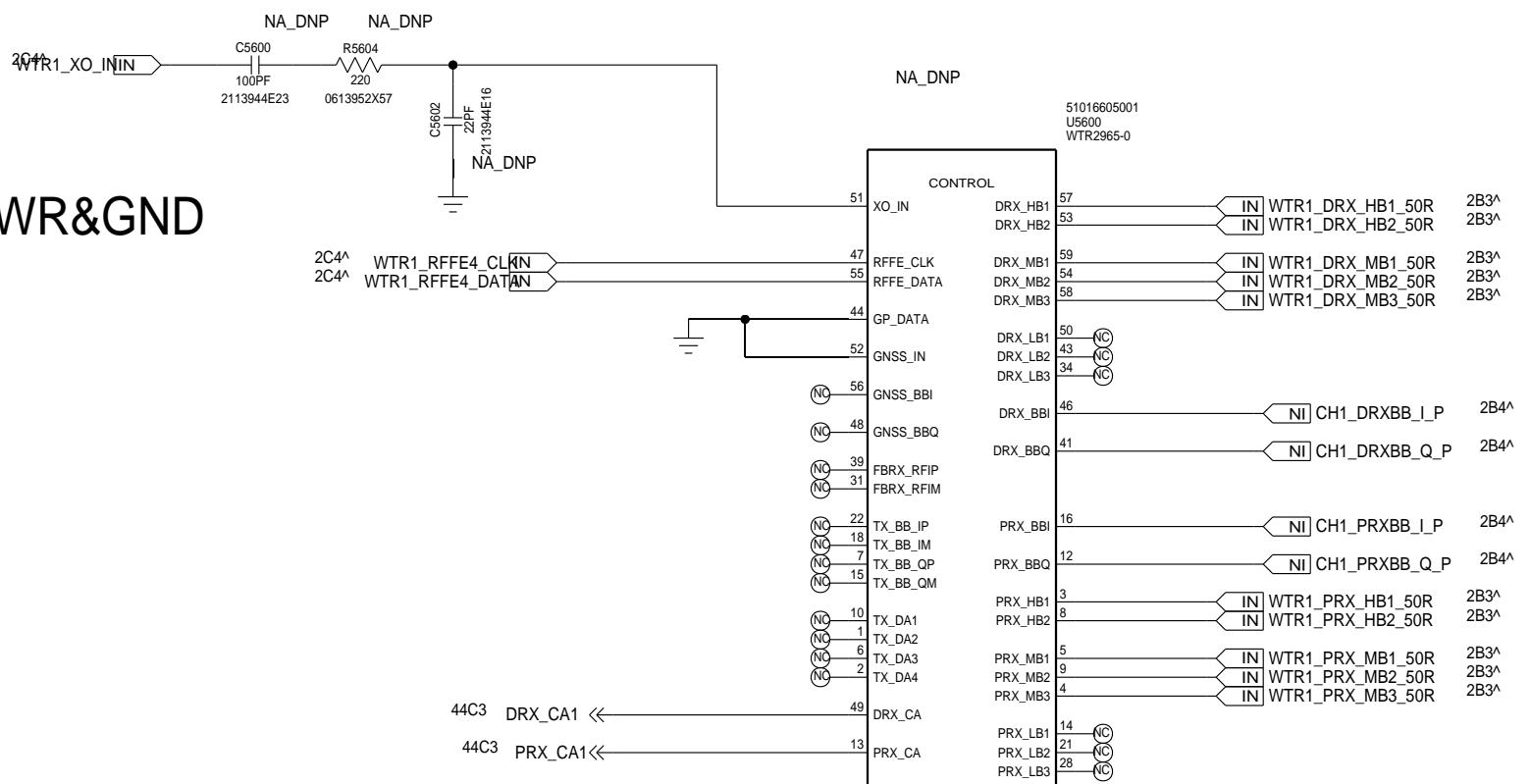


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5600:wtr2965-1

REF 5600-5699

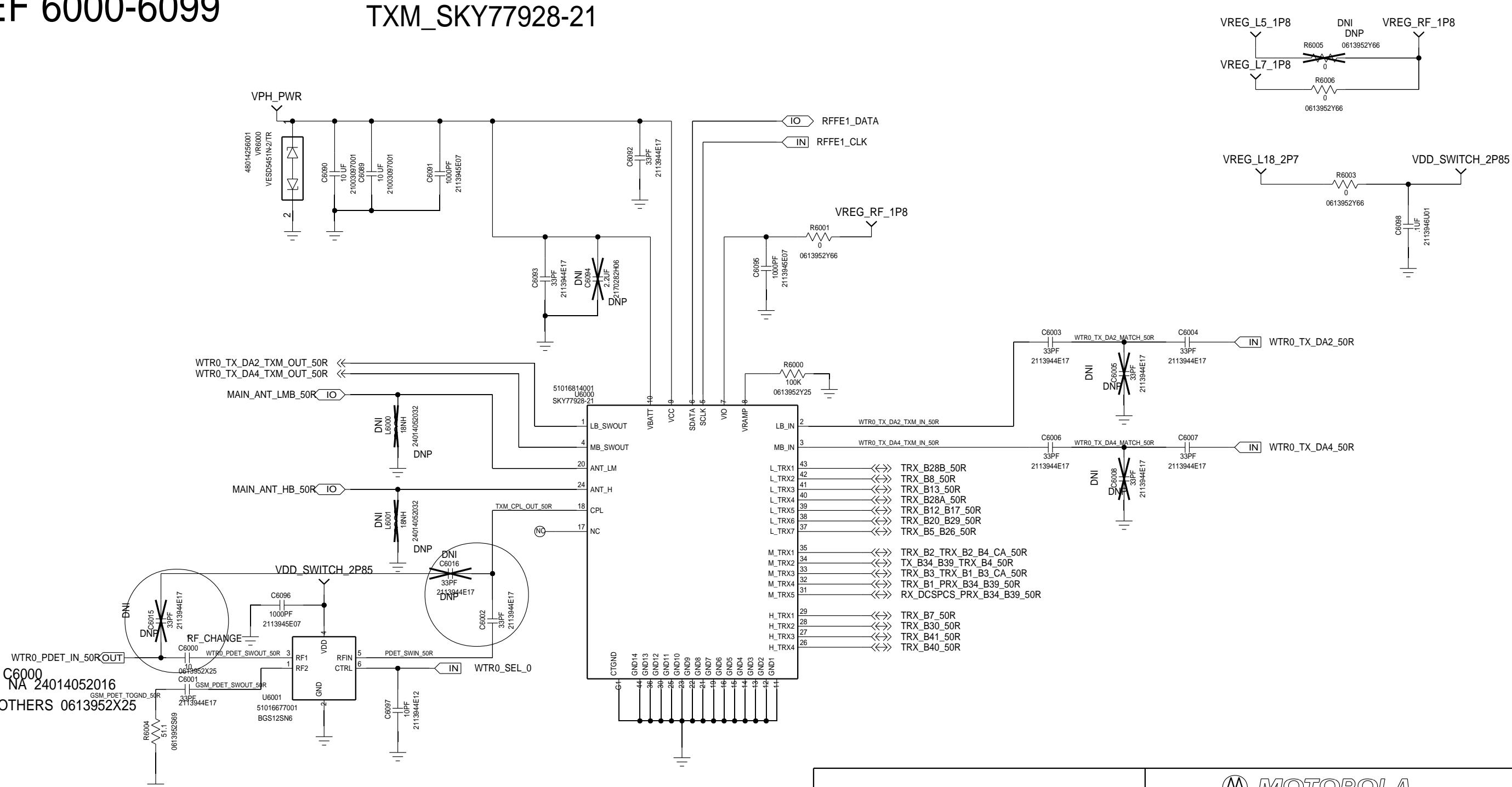
WTR2965-1 CONTROL,PWR&GND



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TXM_SKY77928-21
REF 6000-6099

TXM_SKY77928-21



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PA_SKY77651-21
REF 6100-6199

PA_SKY77651-21

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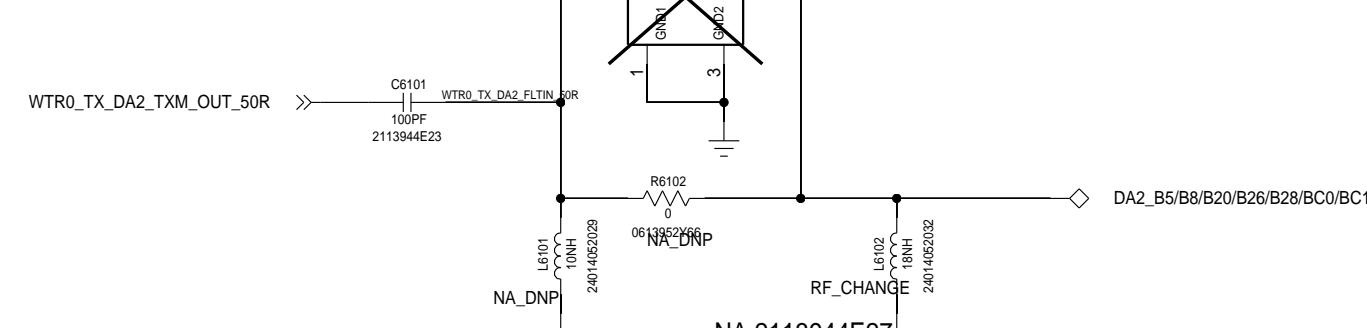
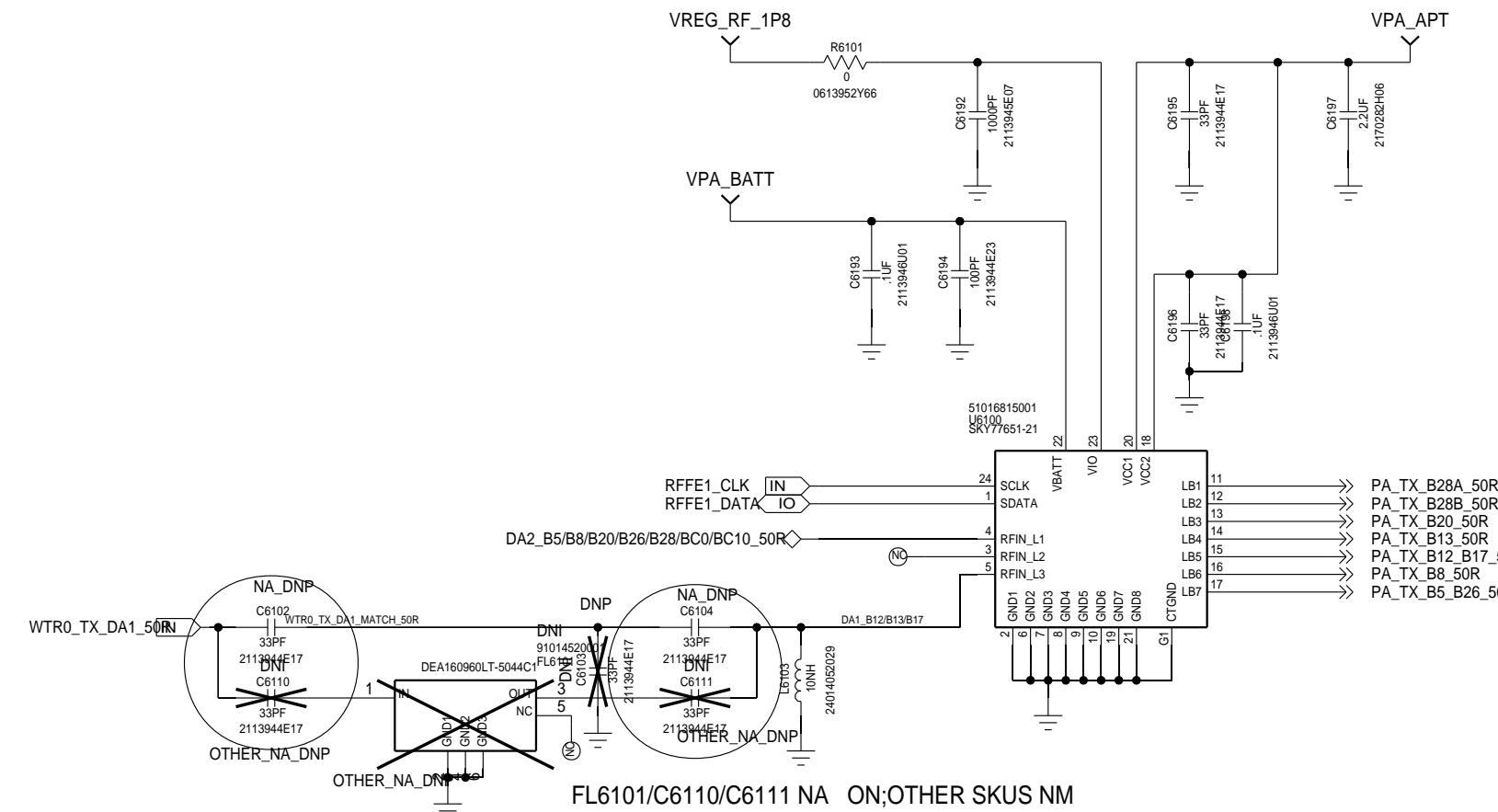
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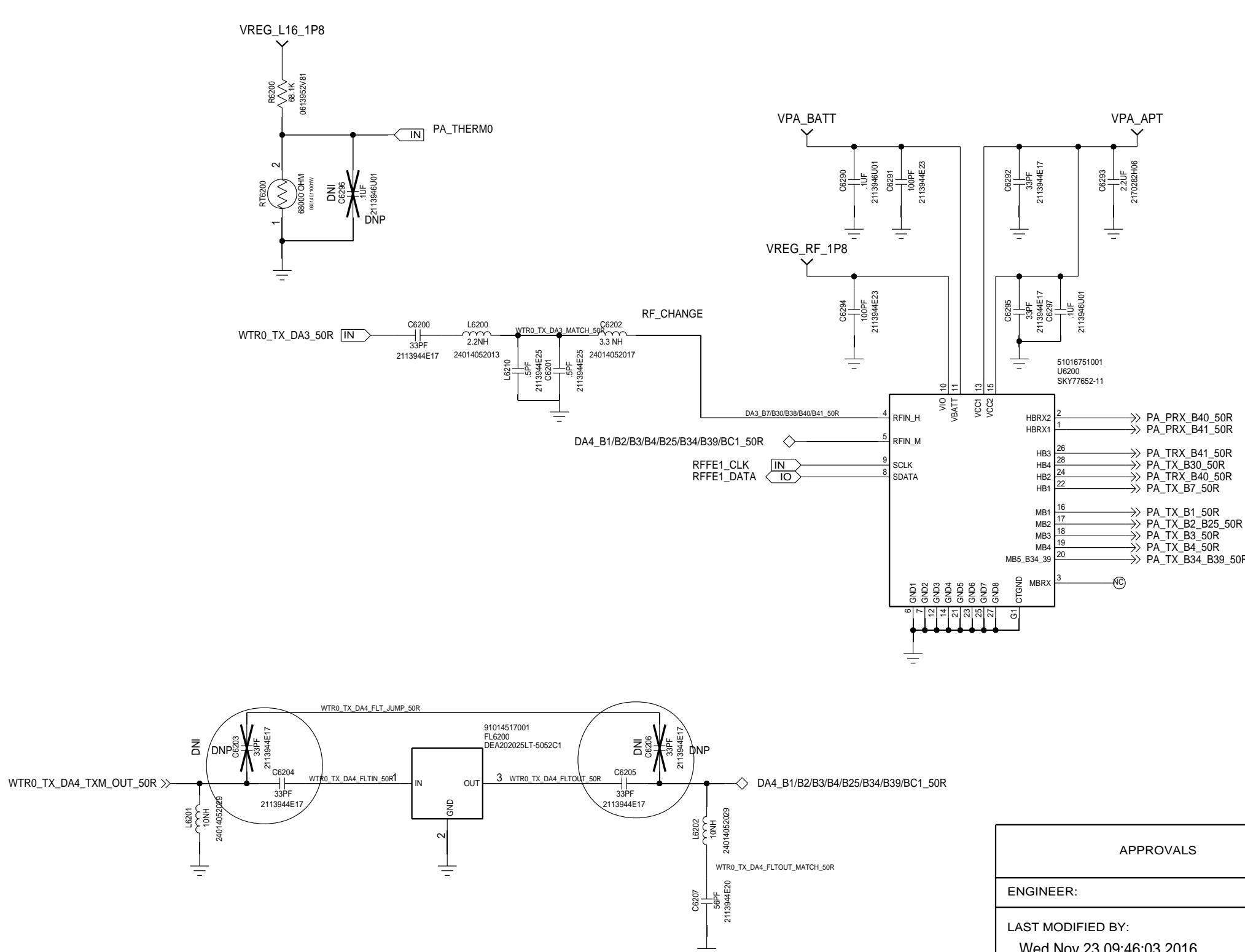
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PA_SKY77652-11

REF 6200-6299

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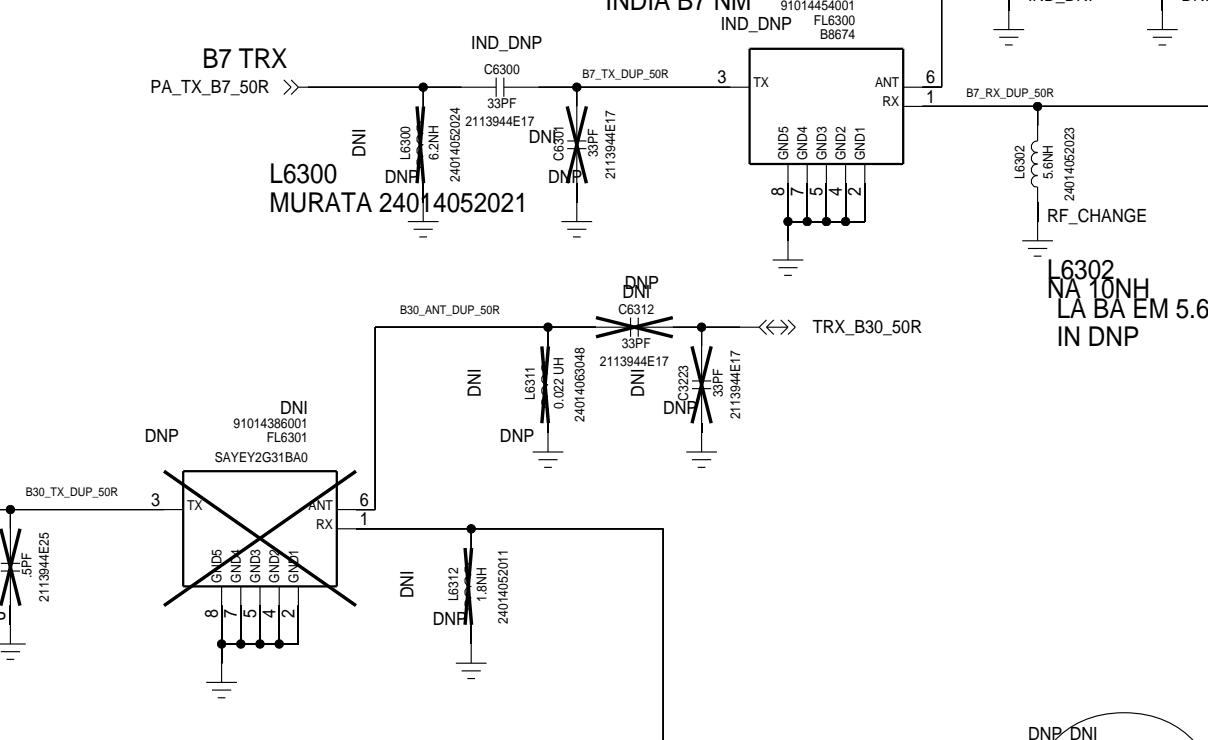
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HB_TRX

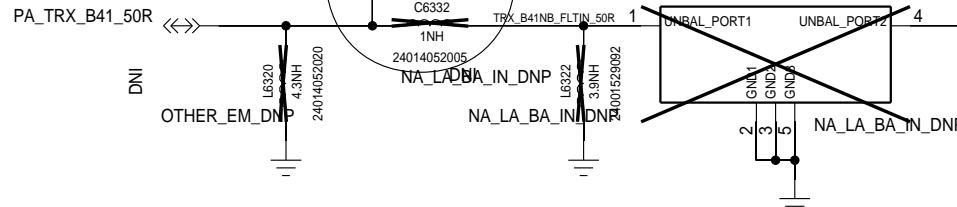
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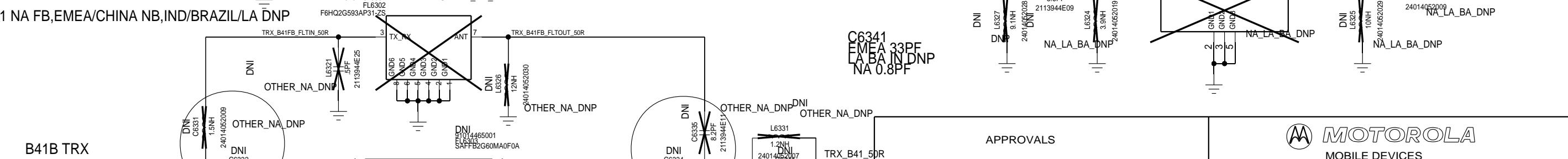


B41 NA FB, EMEA/CHINA NB, IND/BRAZIL/LA DNP

B41B TRX



B40_NA_LA_BAZIL_NM;EMEA/IND/CHINA ON



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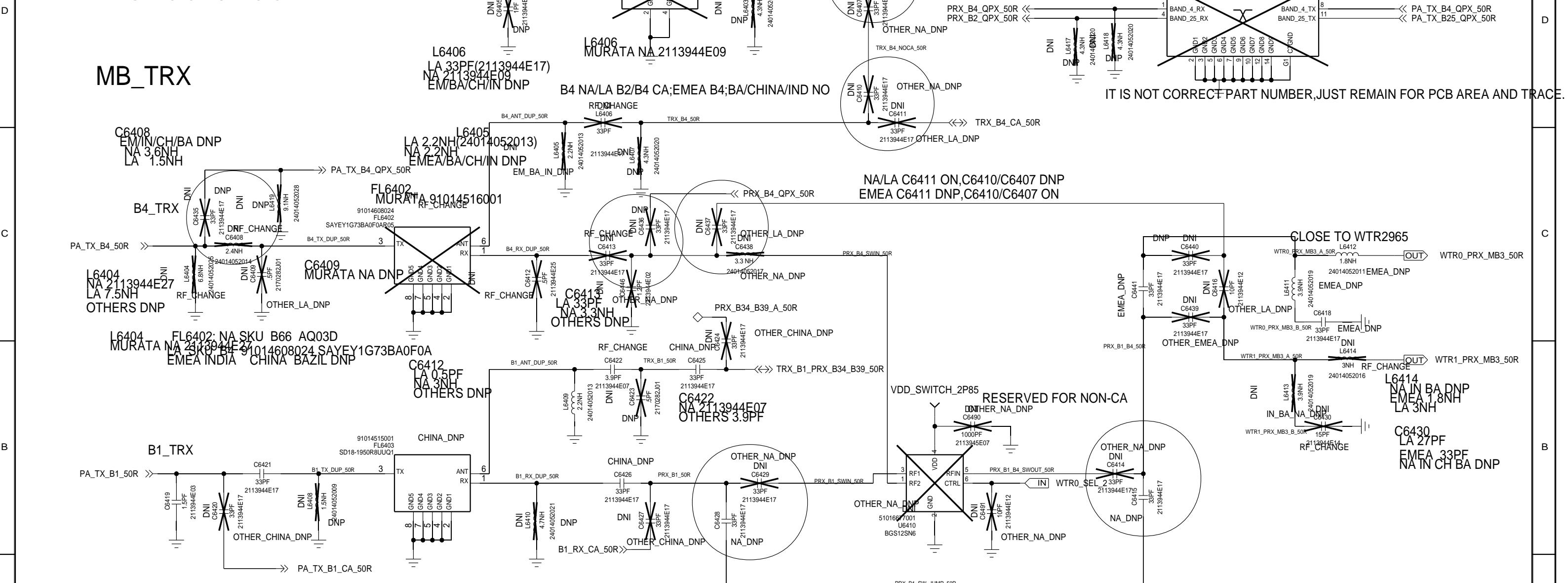
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MB_TRX_B1,4,34,39
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B34/39_TX

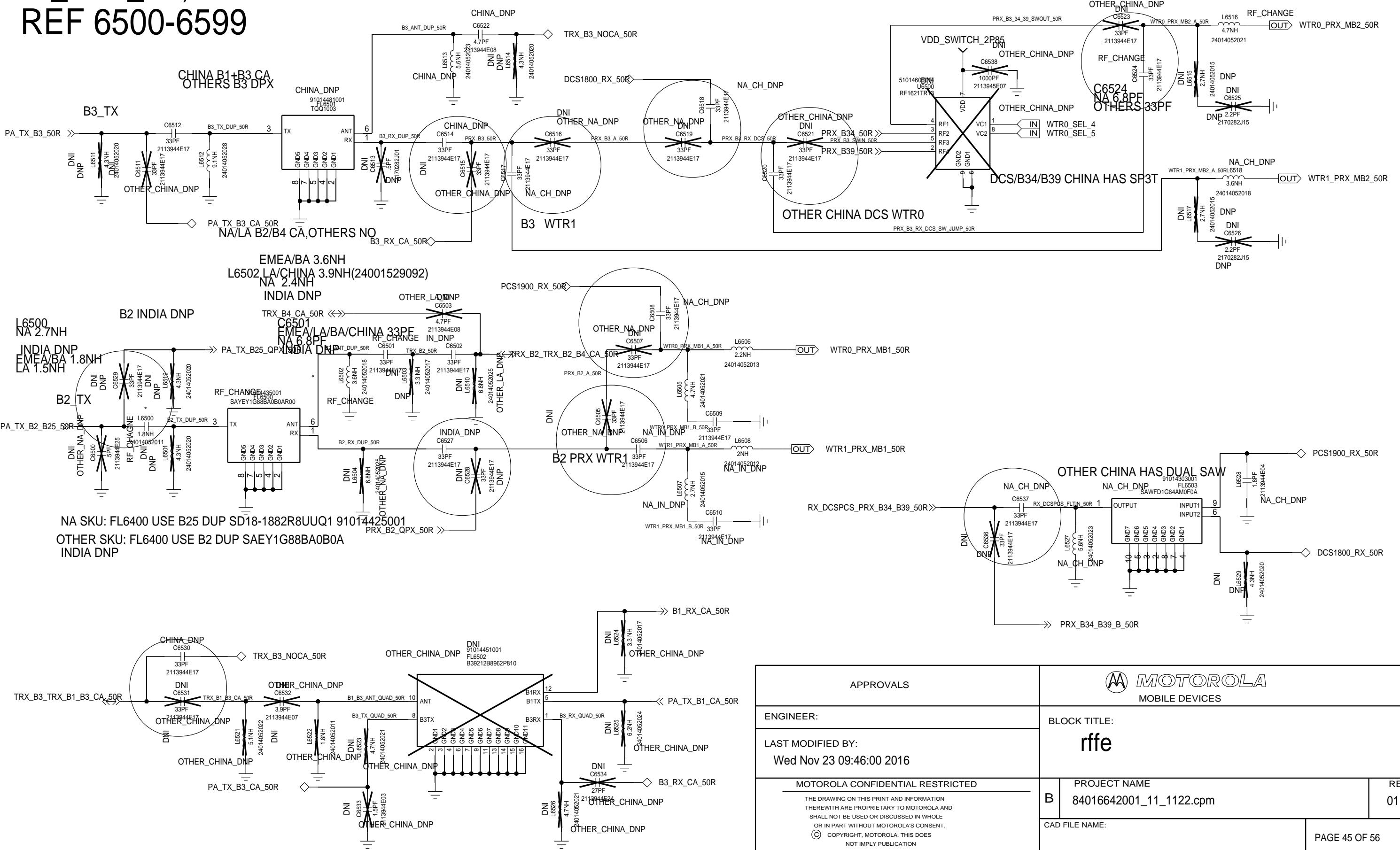


IT IS NOT CORRECT PART NUMBER, JUST REMAIN FOR PCB AREA AND TRACE.

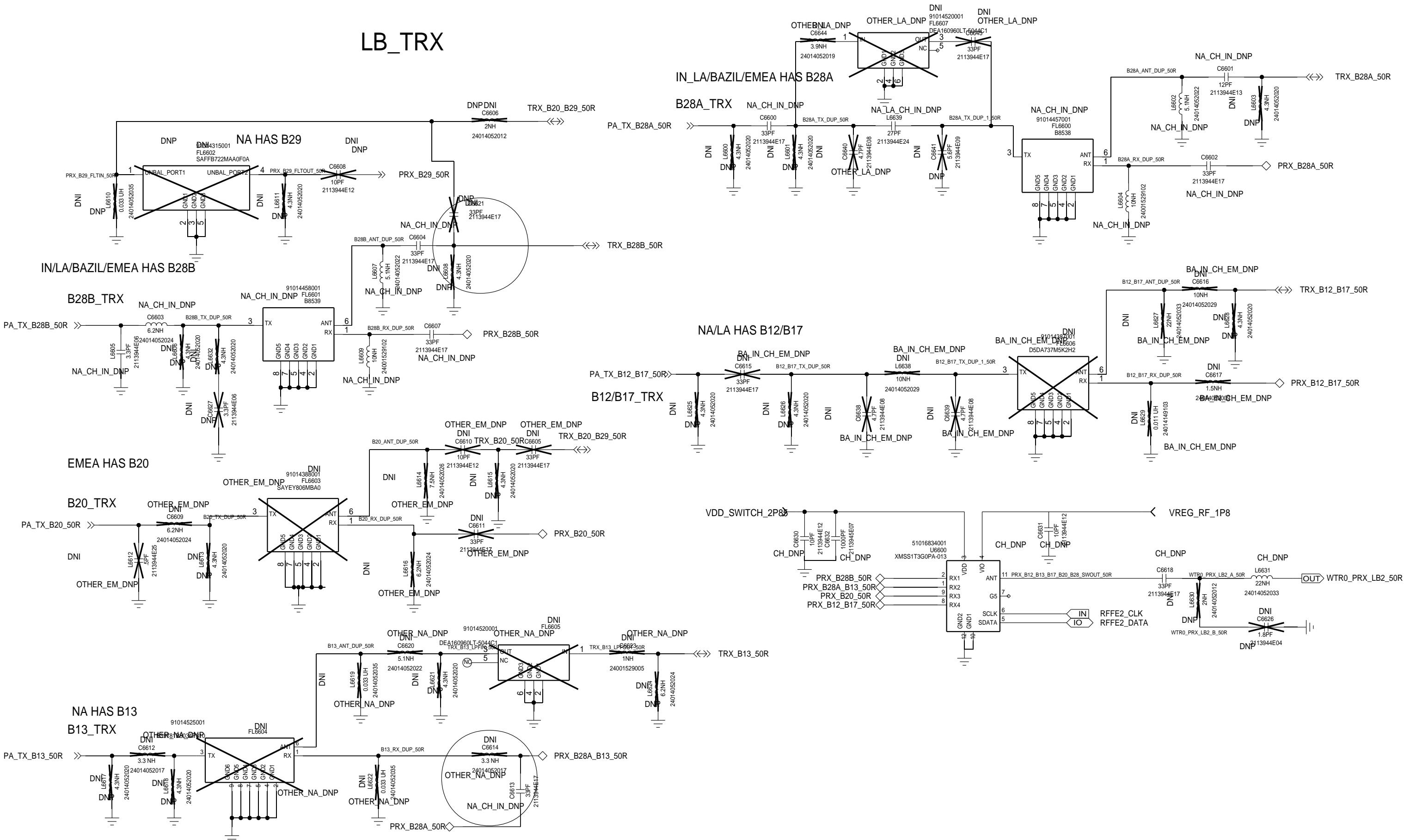
B1
NA/LA/BAZIL WTR0 C6428/C6415 ON,C6429/C6414 NM
EMEA WTR1 C6428/C6415 NM,C6429/C6414 ON
CHINA/IND WTR1 C6428/C6415 ON,C6429/C6414 NM

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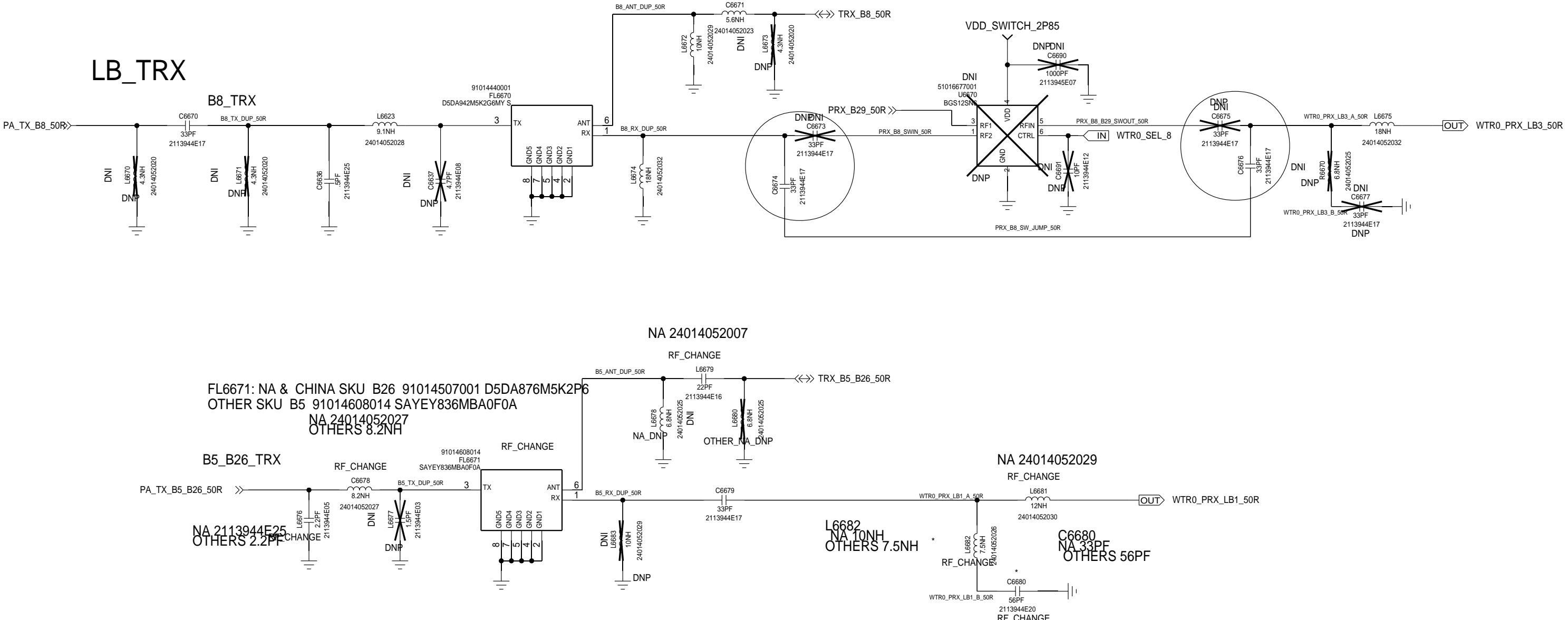
MB_TRX_B2,3
REF 6500-6599



LB_TRX



LB_TRX_B5,8
REF 6670-6699



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HB_DRX_B7,30,38,40,41

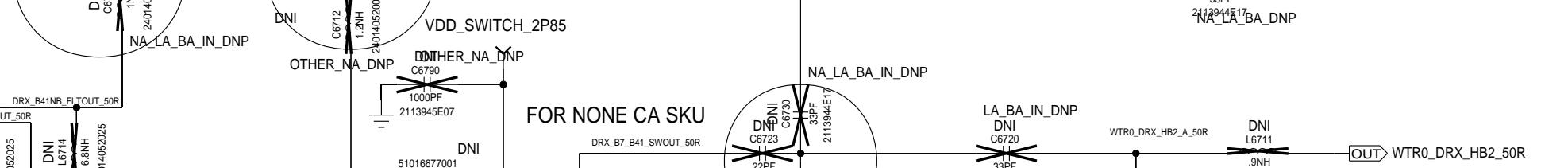
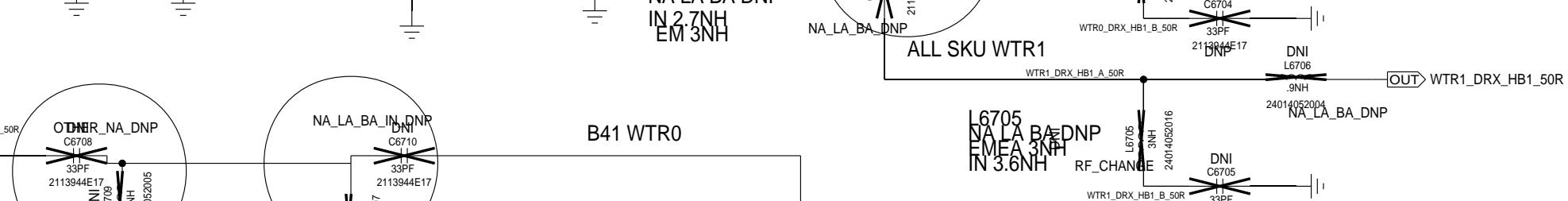
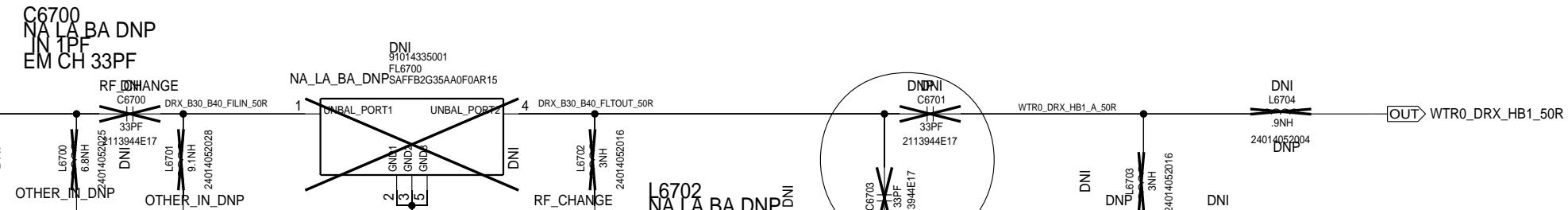
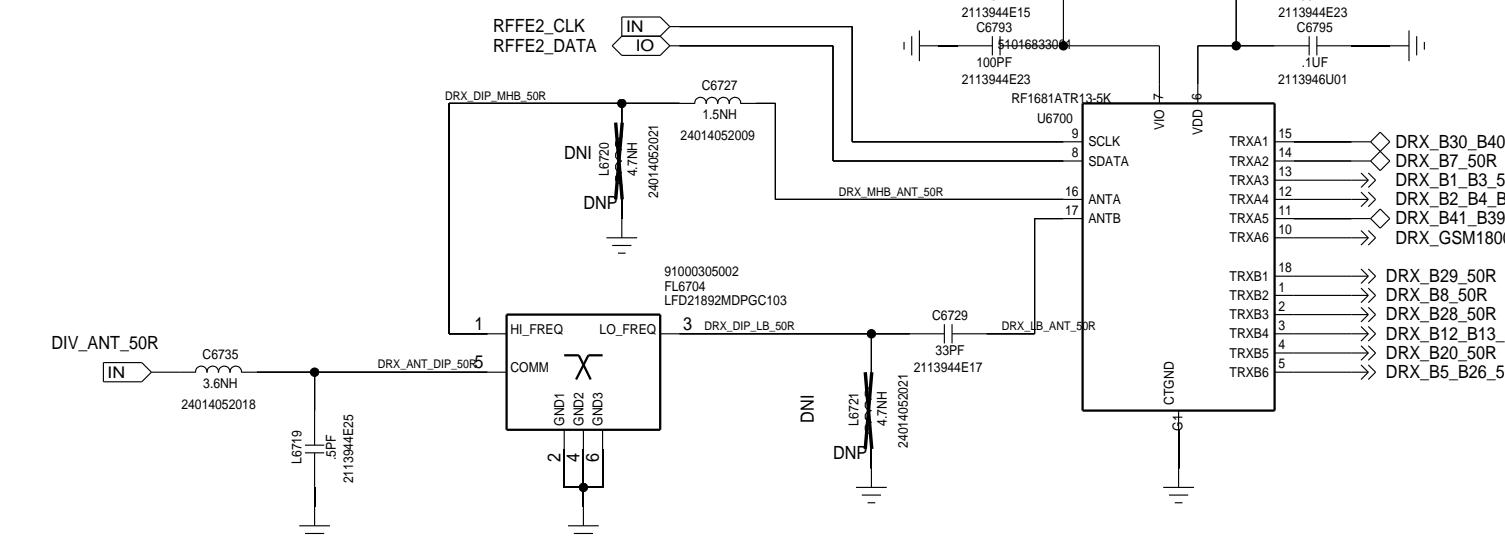
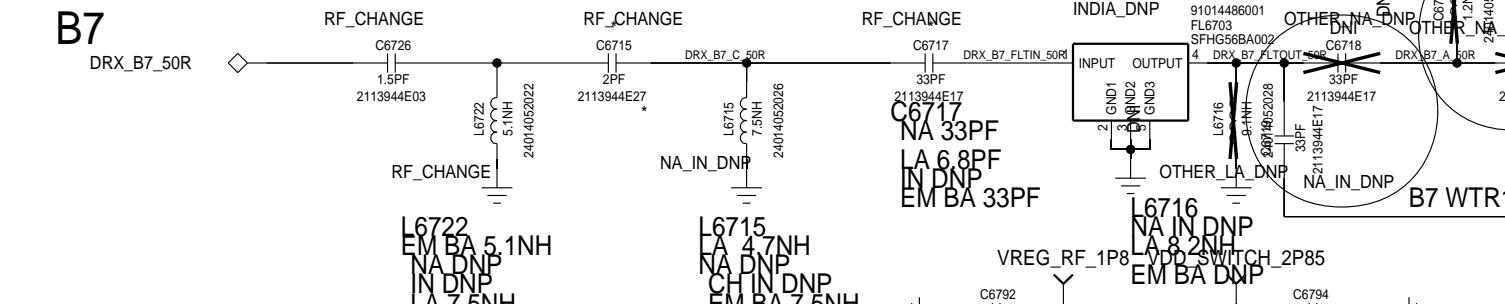
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B30 OR B40

HB_DRX

B41 OR B38

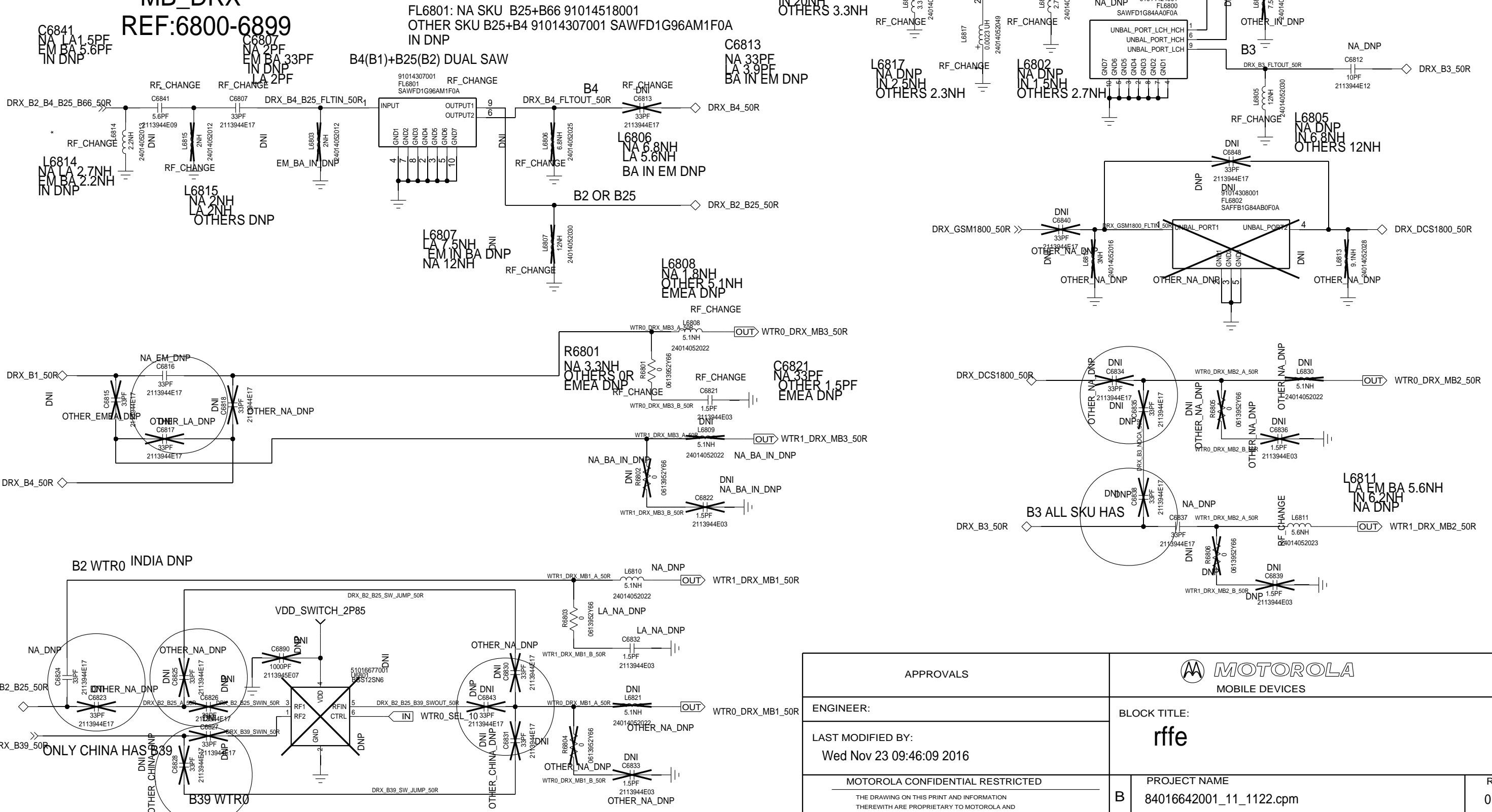
C6726
NA 33PF
EM BA 1.5PF
IN DNP
LA 4.7PF



MB_DRX_B1,2,3,4,25,34,39

REF 6800-6899

MB_DRX
REF:6800-6899



APPROVALS

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MOBILE DEVICES

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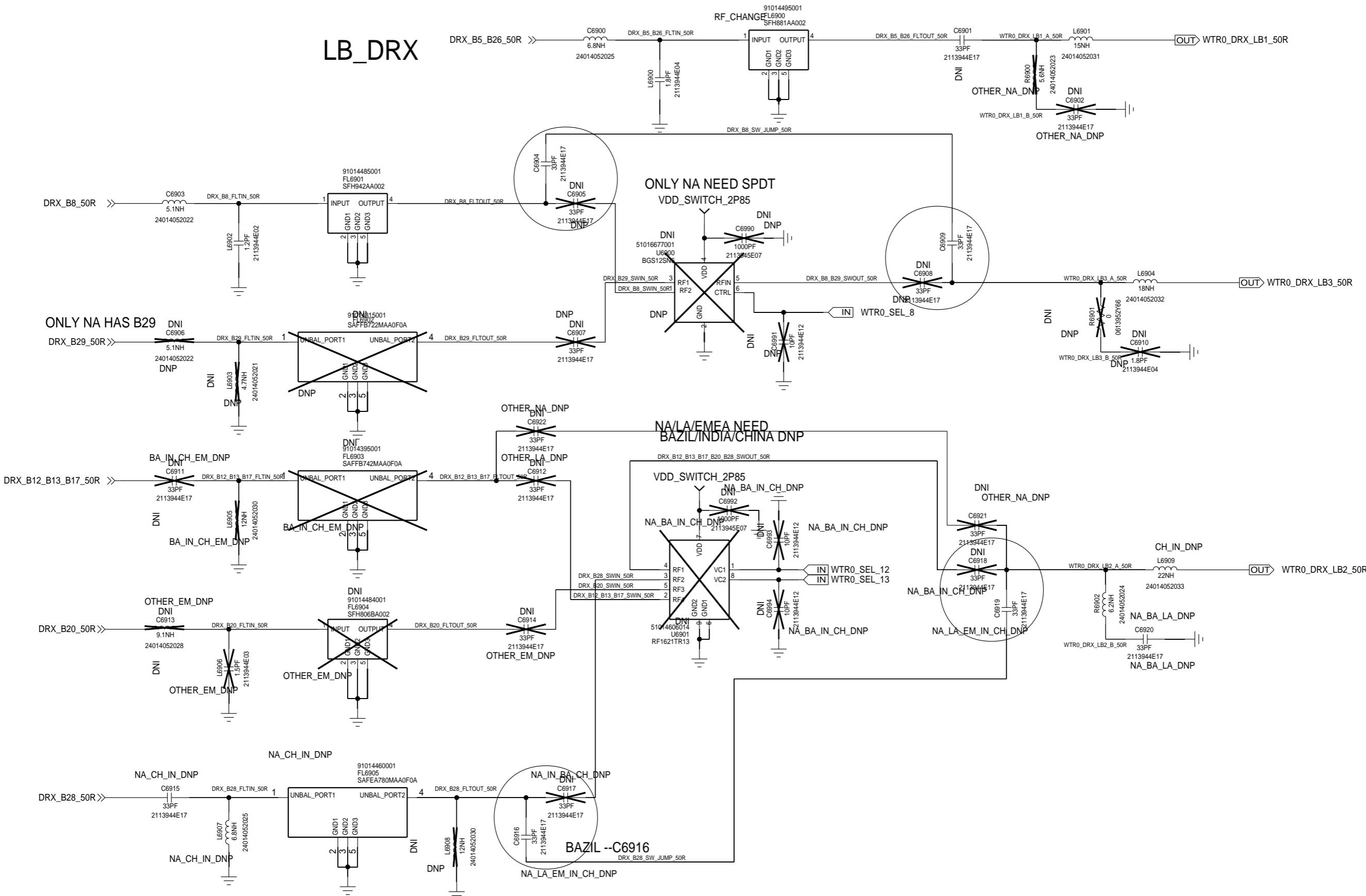
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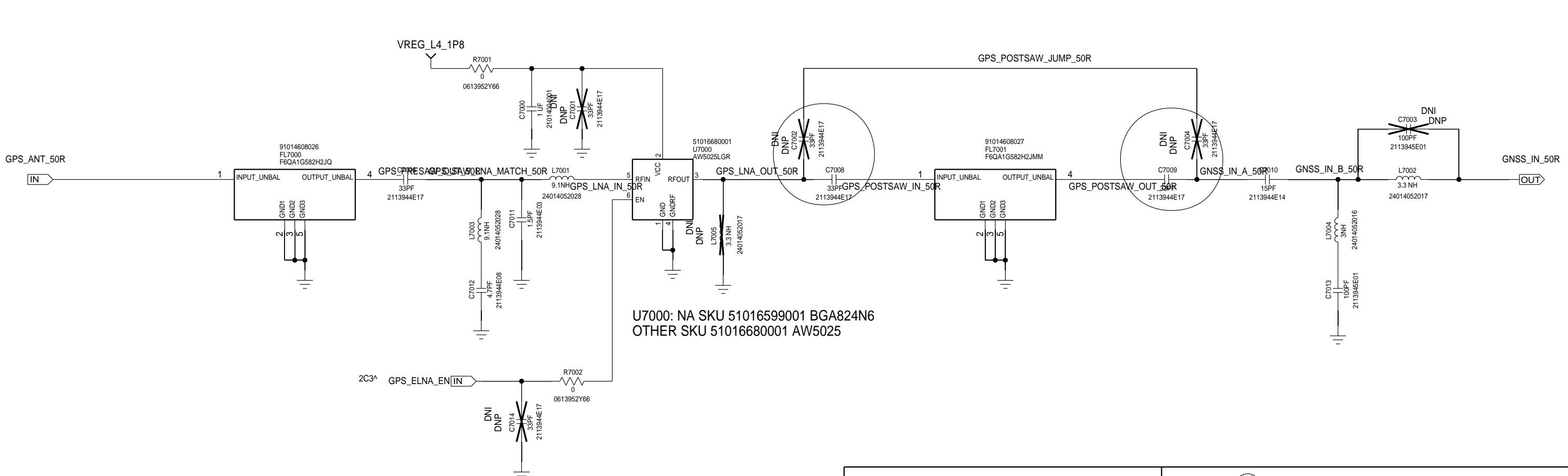
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GNSS REF7000-7009

GNSS

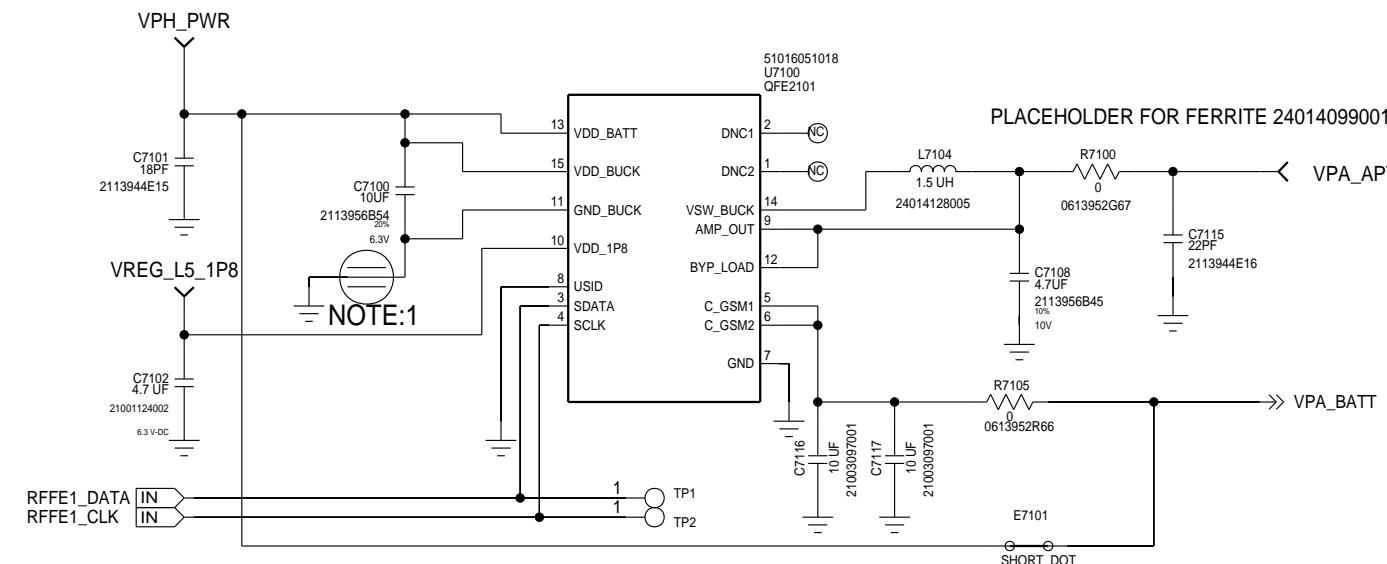


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DCDC

REF7100-7109

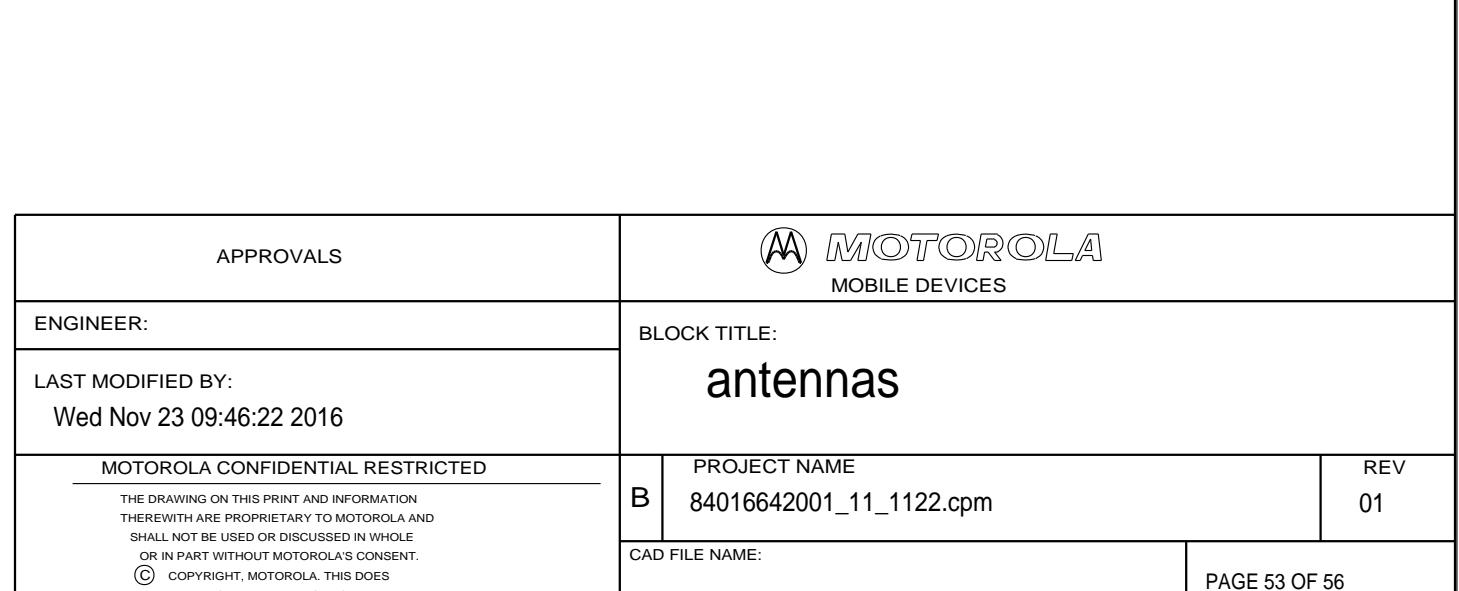
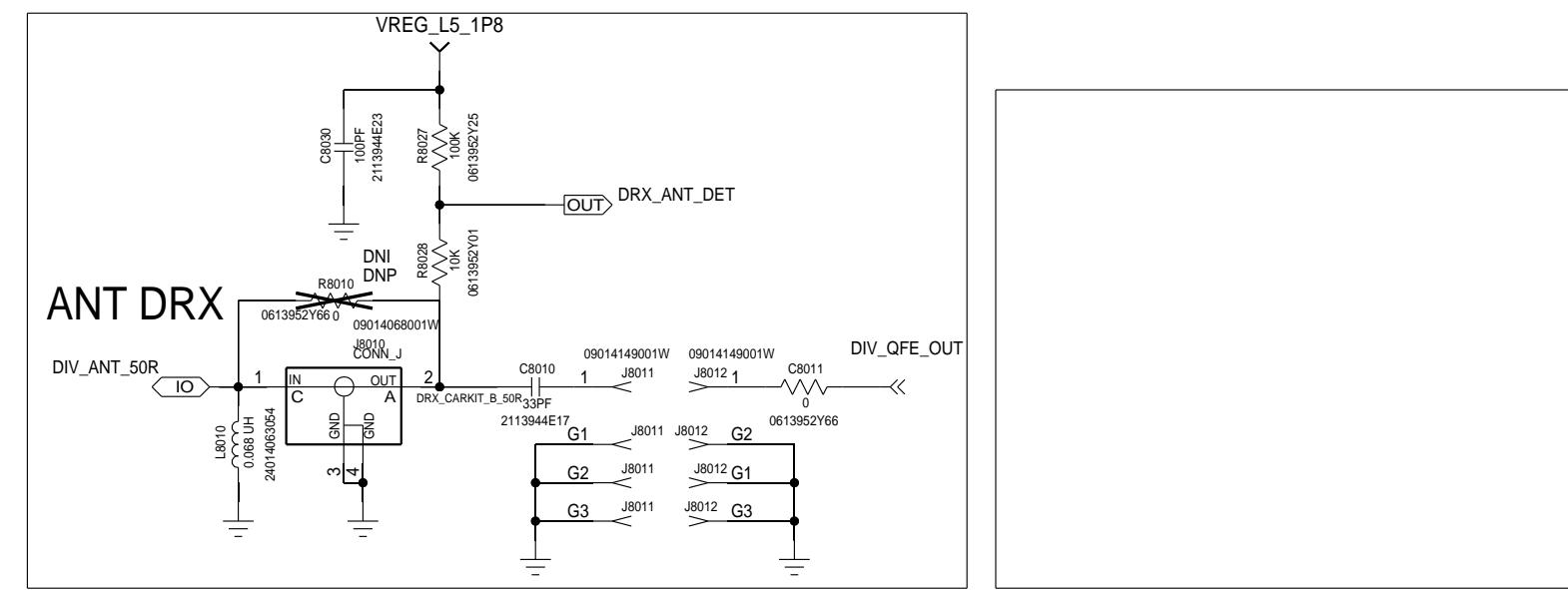
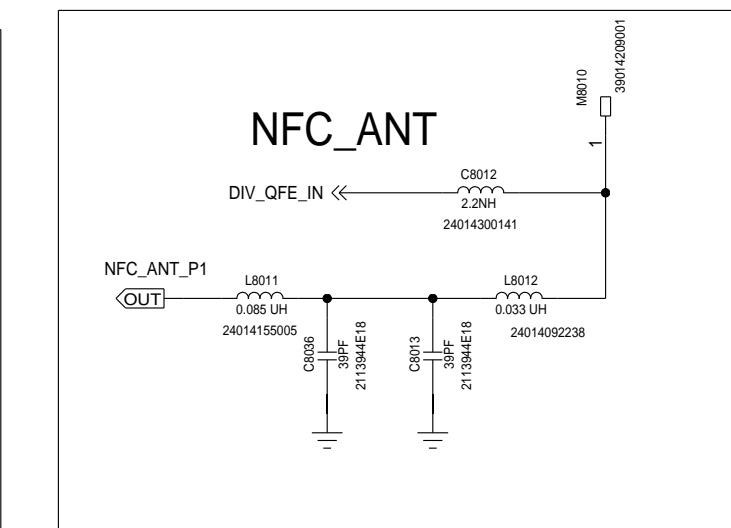
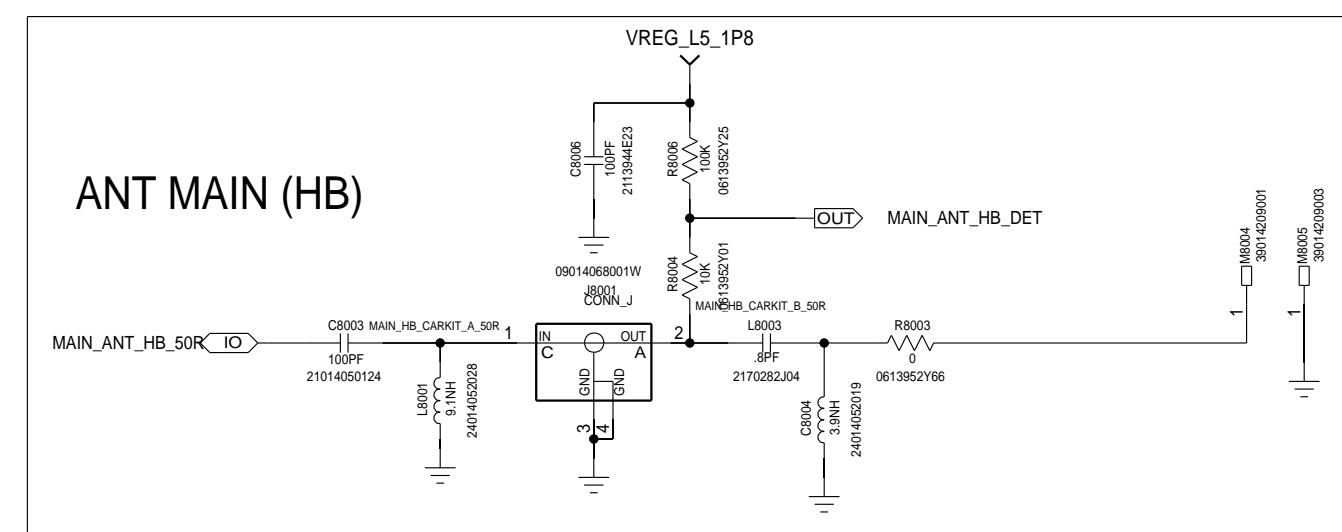
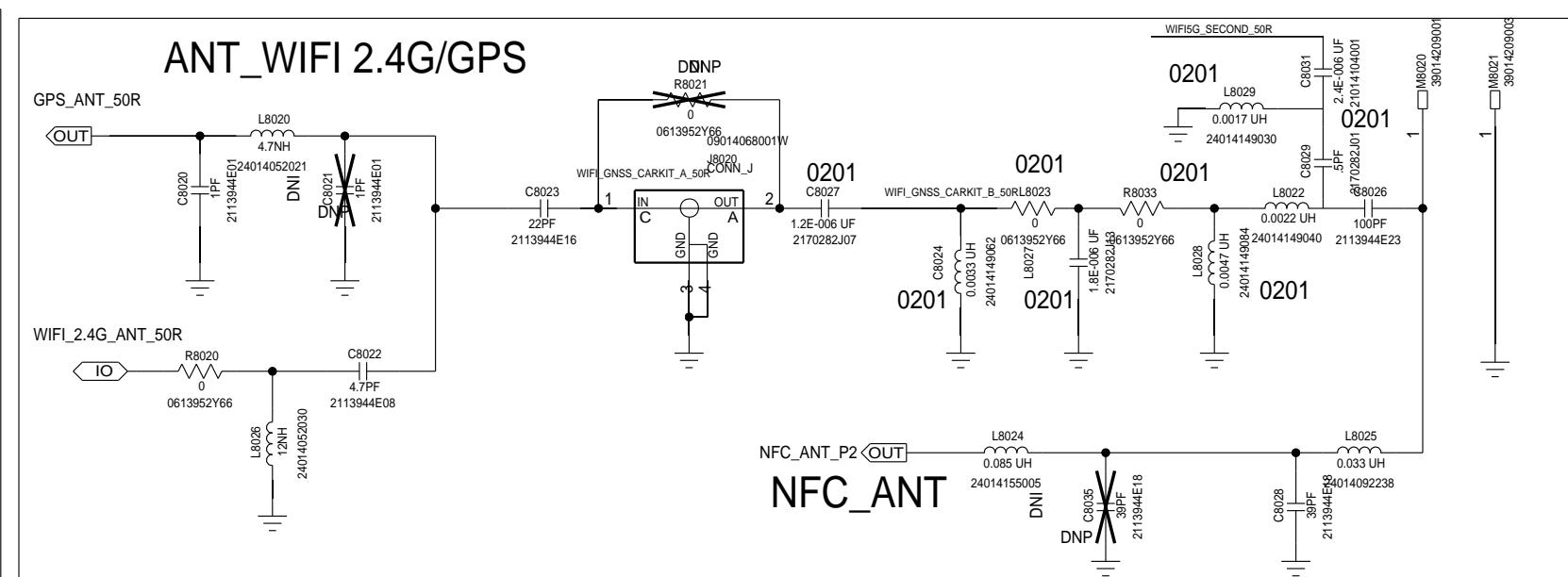
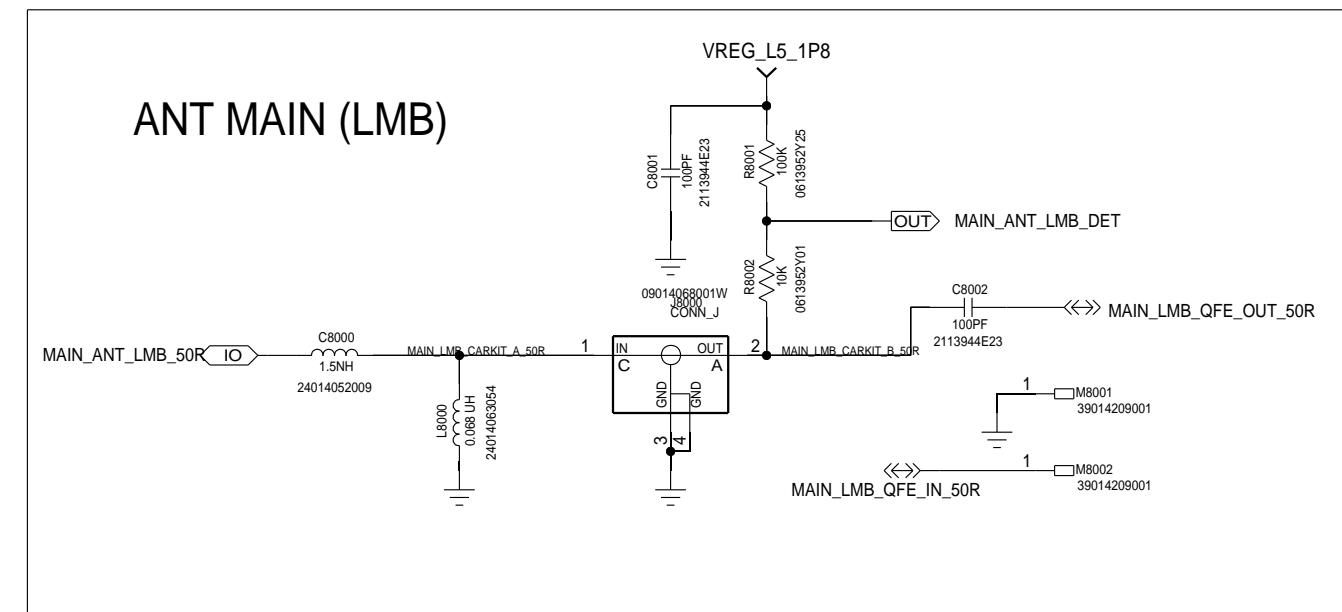
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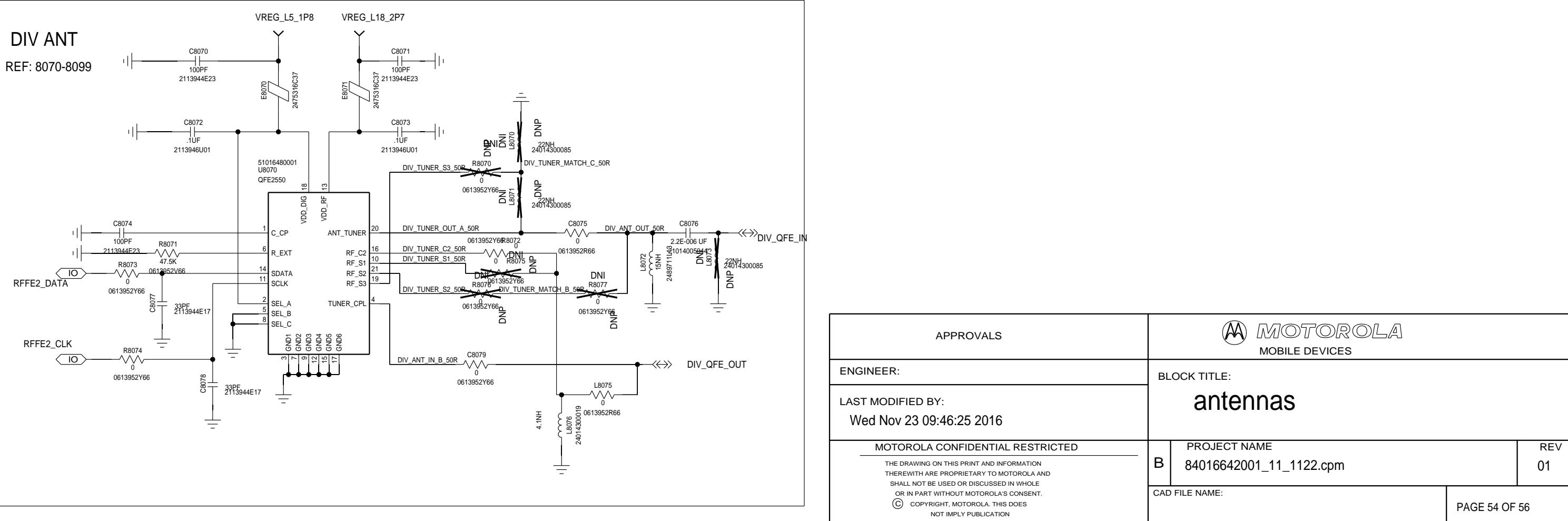
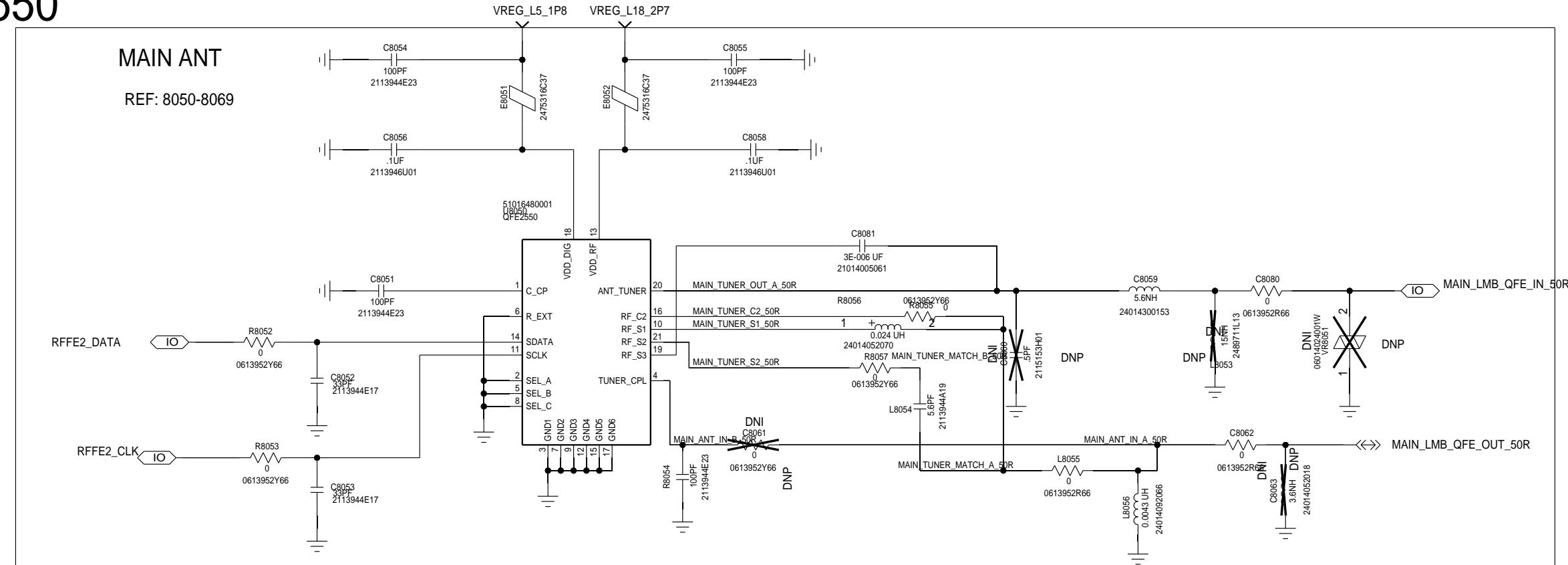
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REF 8000-8049



8050:ant_tuner_QFE2550

REF 8050-8099



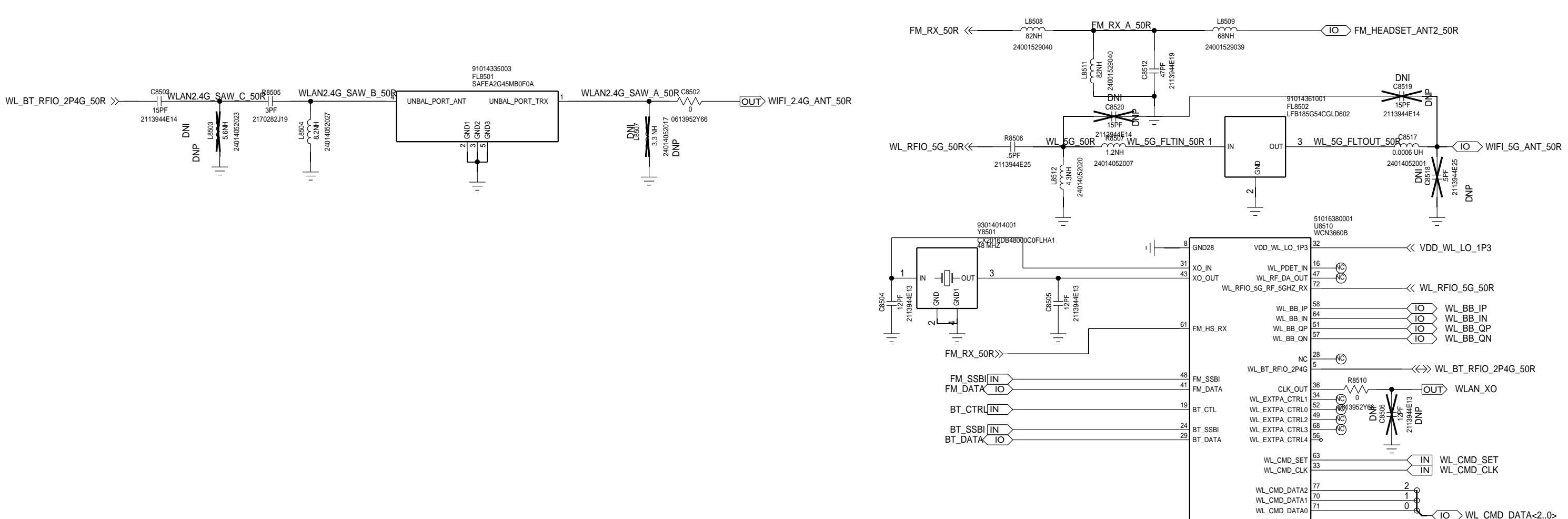
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8500:WCN3660B RF

REF 8500-8519

WCN3620 OTHER SKUS: FL8501 USE SAFEA2G45MC0F0A

NA SKU: FL8501 USE F6HF2G441AF46M



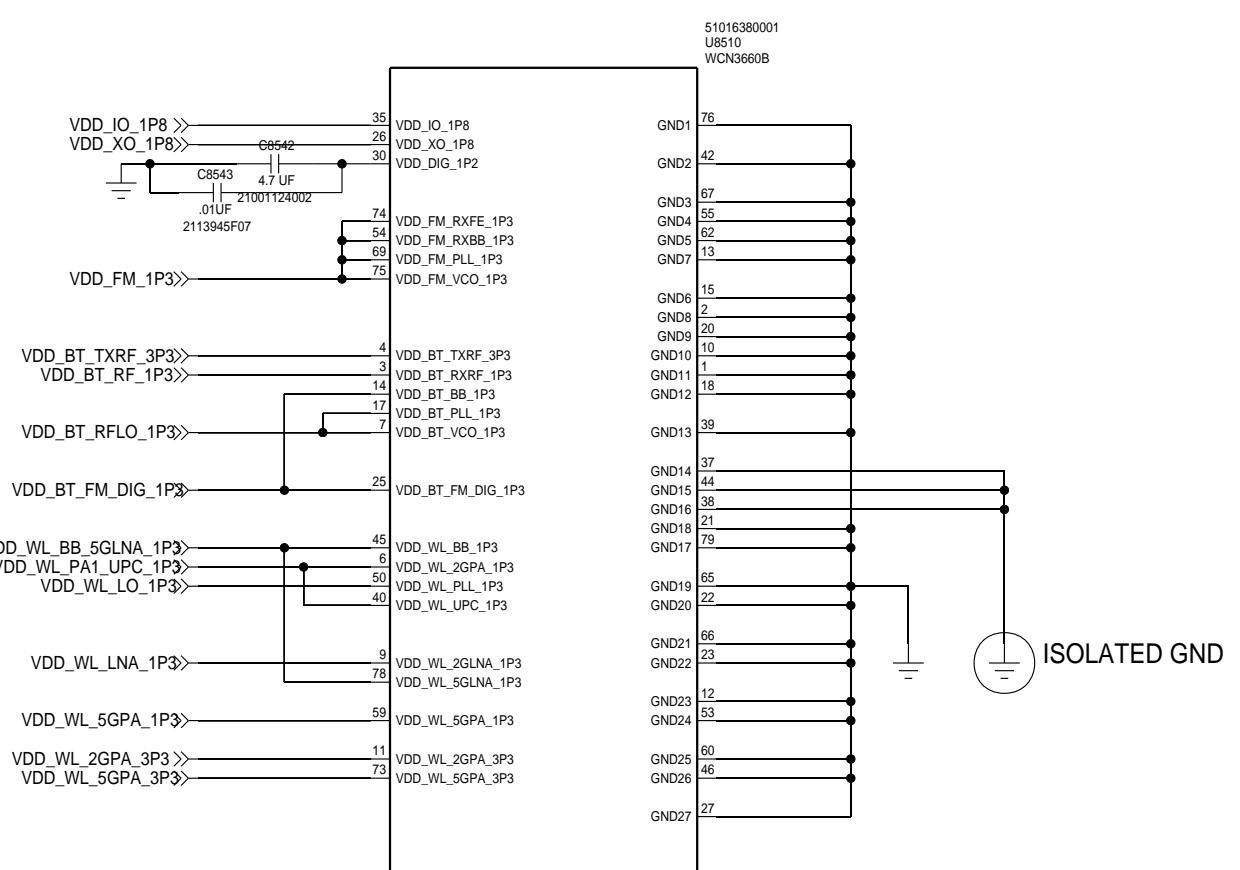
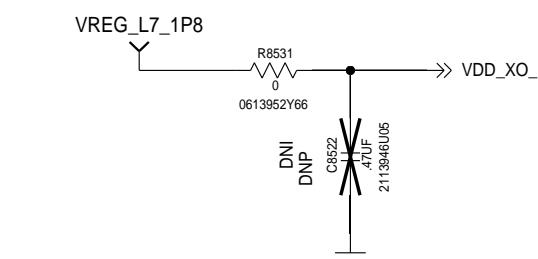
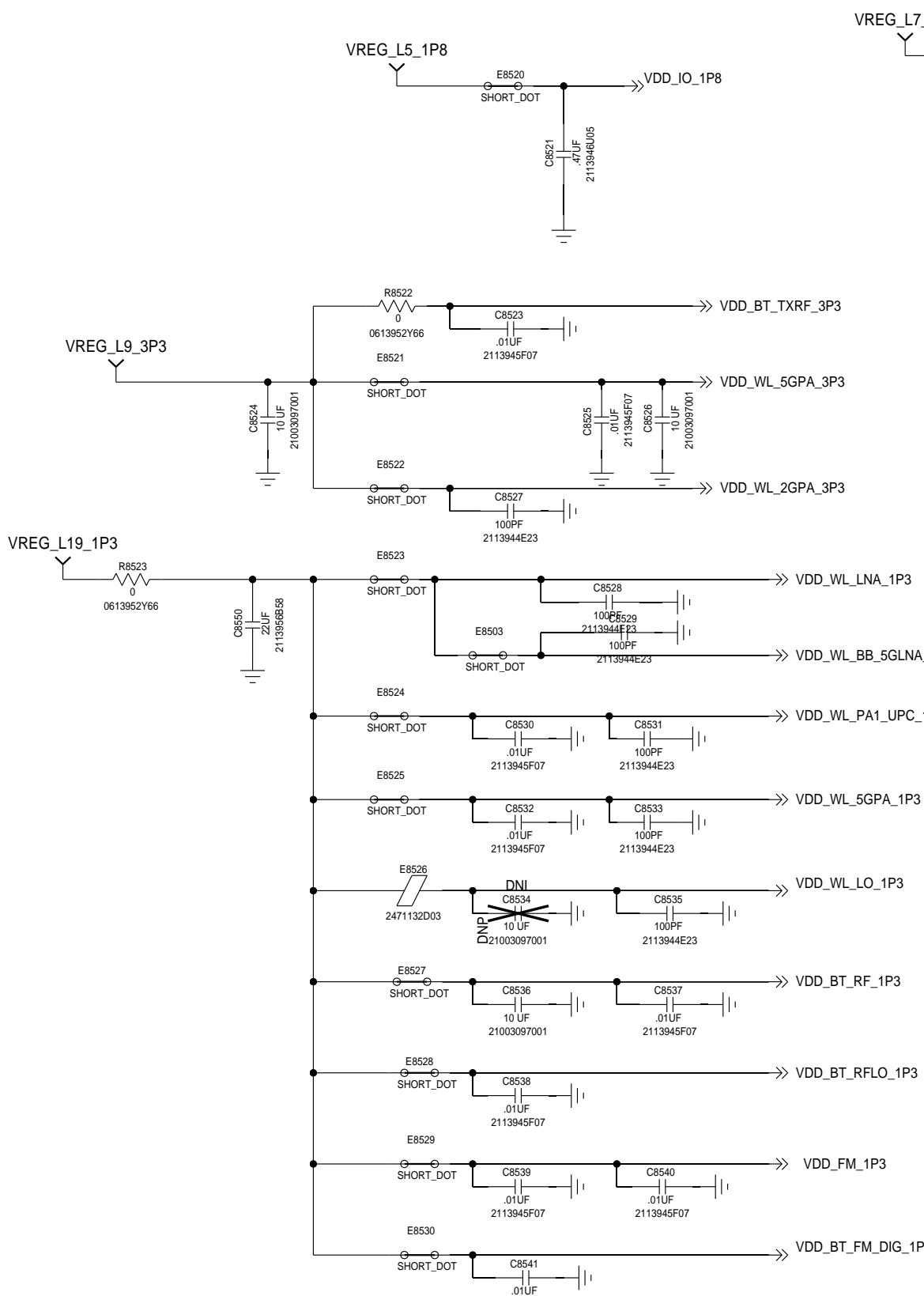
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8520:WCN3660B Power

WCN3620

OTHER SKUS: FL8501 USE SAFEA2G45MC0F0A

REF 8520-8549



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