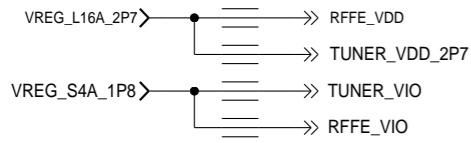


ANT: PORTS

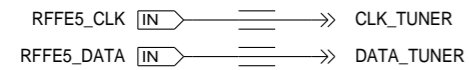
REFDES: 000 - 499

SUPPLIES

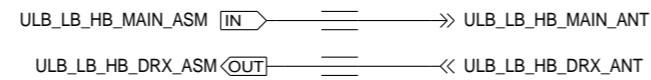


VERIFY POWER SUPPLIES TP PMIC

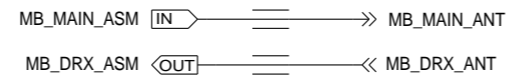
TUNER INTERFACE



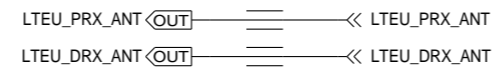
ULTRA LOW + LOW + HIGH BAND ANTENNAS



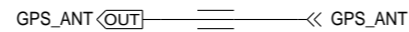
MID BAND ANTENNAS



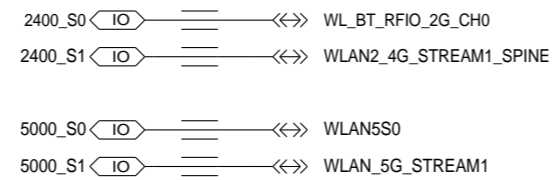
LTE-U ANTENNAS



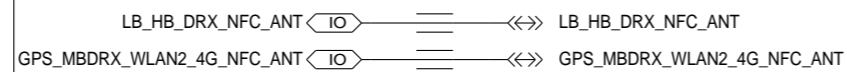
GPS ANTENNA



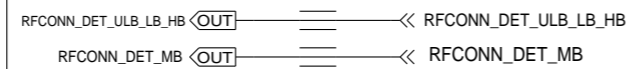
BT/WLAN ANTENNAS



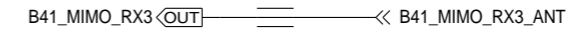
NFC ANTENNA



INPUTS /OUTPUTS - RF_CON_DET



B41 HPUE + MIMO

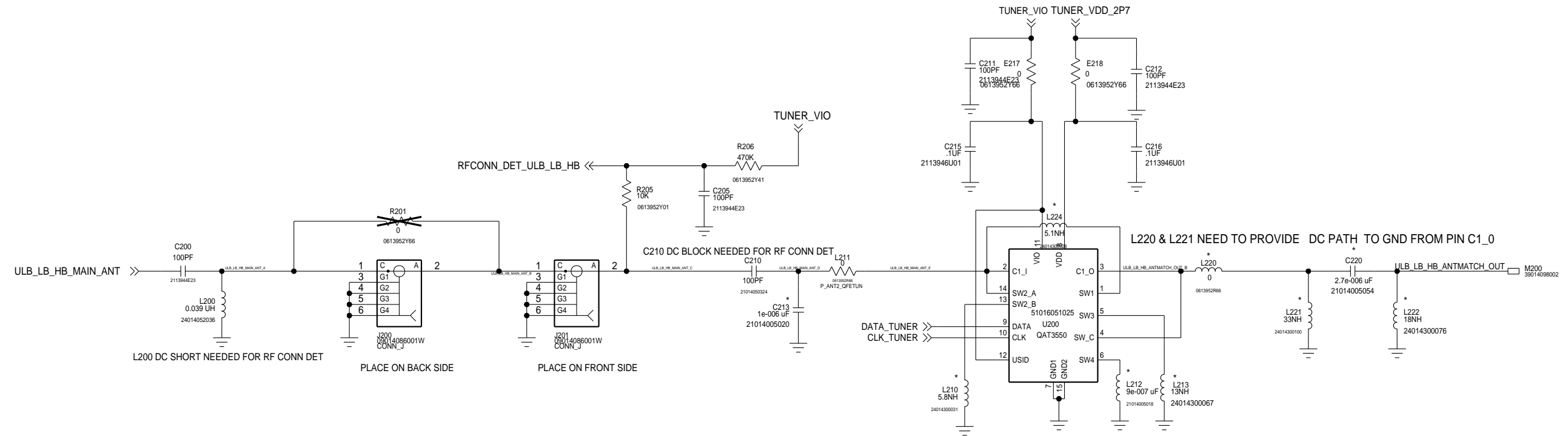


APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:13:25 2017		antennas	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016657001_a.cpm	03
		CAD FILE NAME:	PAGE 3 OF 91

ANT: ULB+LB+HB MAIN

REFDES: 200-299

ANTENNA 0 - COUPLED FED LOOP BOTTOM

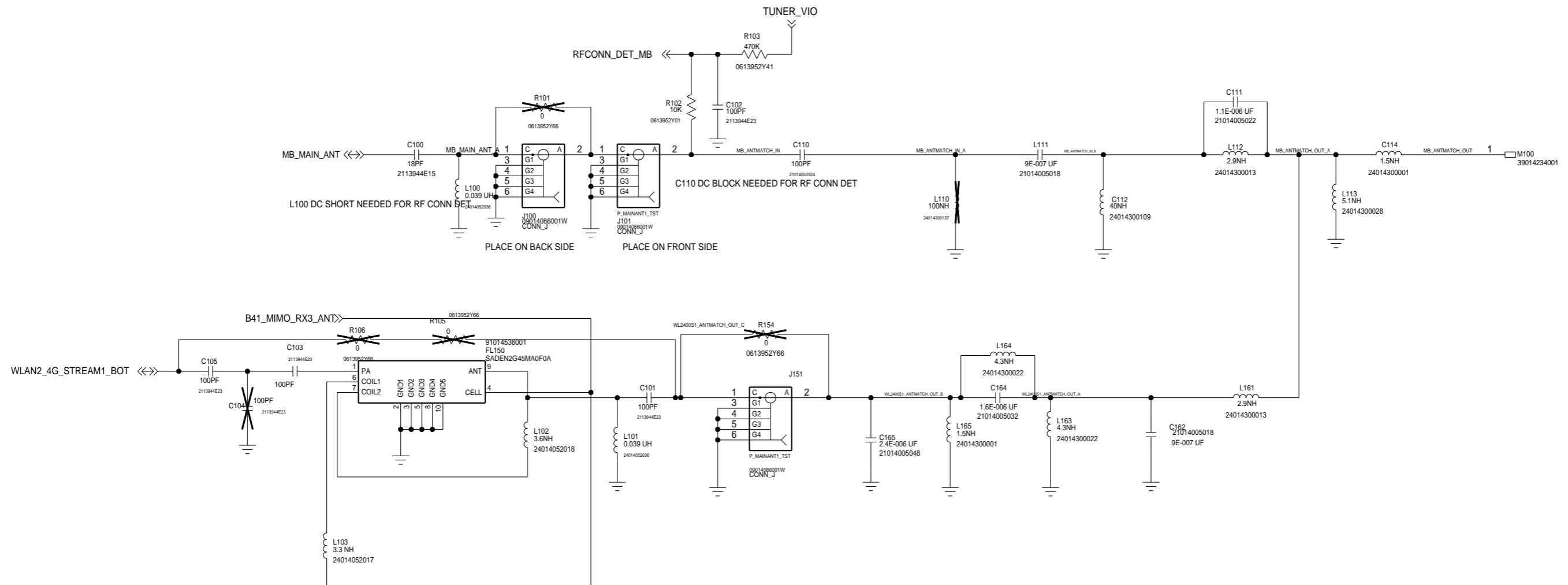



APPROVALS		MOTOROLA MOBILE DEVICES	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 4 OF 91	

ANT: MB MAIN + WLAN_S1 + B41 MIMO RX3

REFDES: 100-199

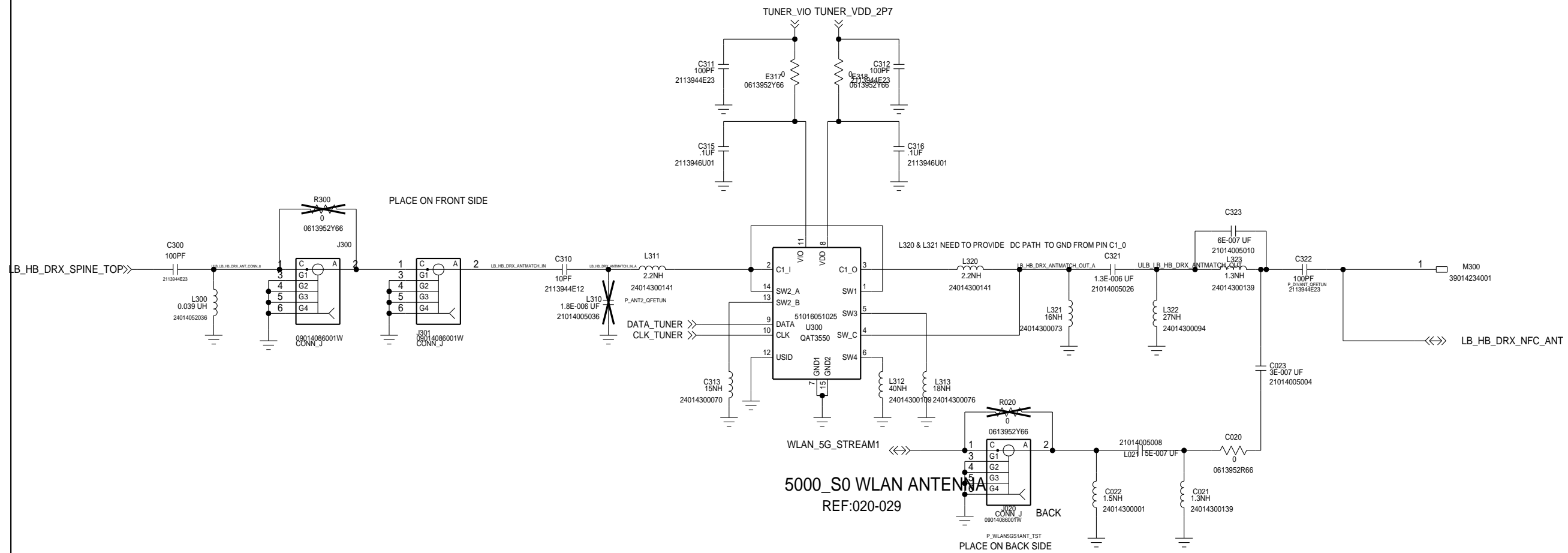
ANTENNA 1 - DIRECT FED LOOP BOTTOM



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:30 2017		antennas	
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		B 84016657001_a.cpm	03
		PAGE 5 OF 91	

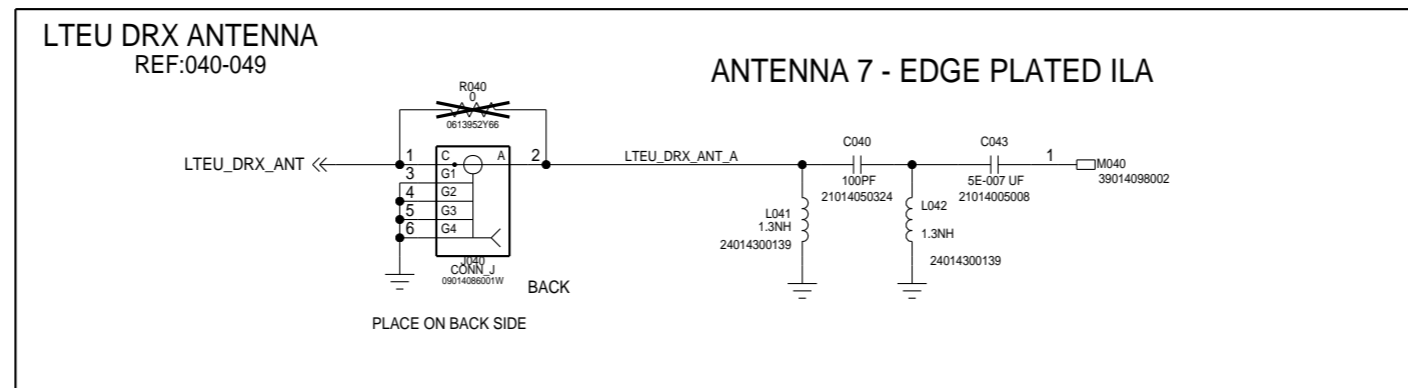
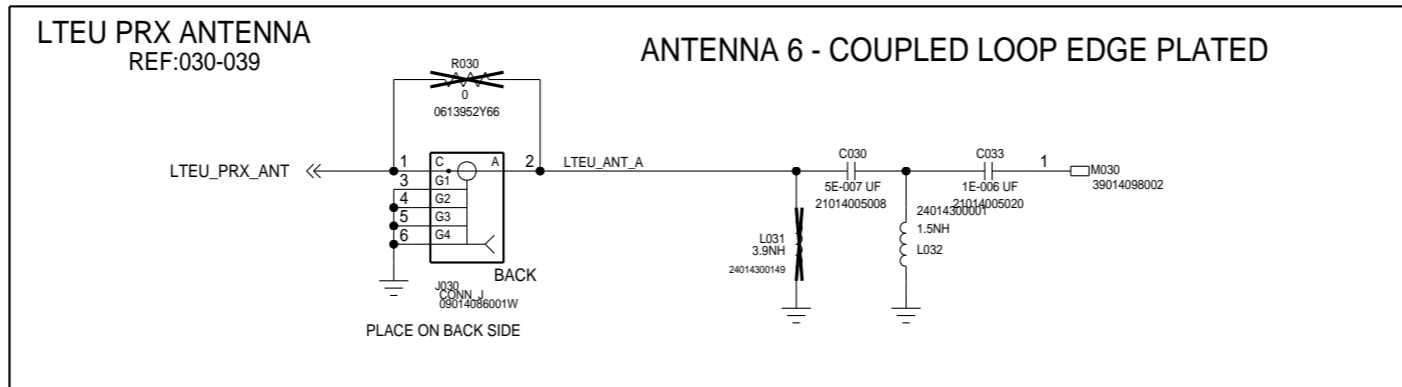
ANT: ULB+LB+HB DIV
REFDES: 300-399

ANTENNA 2 - DIRECT FED LOOP TOP



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:29 2017		antennas	
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		CAD FILE NAME:	
		PAGE 6 OF 91	

ANT: LTEU

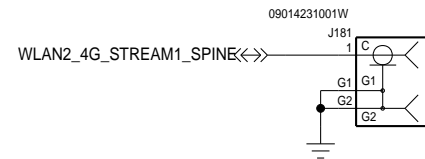


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:32 2017		antennas	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 8 OF 91	

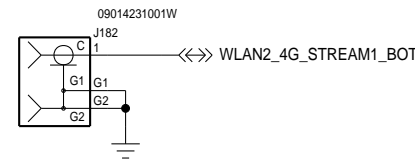
ANT: SPINE COAX

REFDES: 100 - 199

TOP OF SPINE




BOTTOM OF SPINE



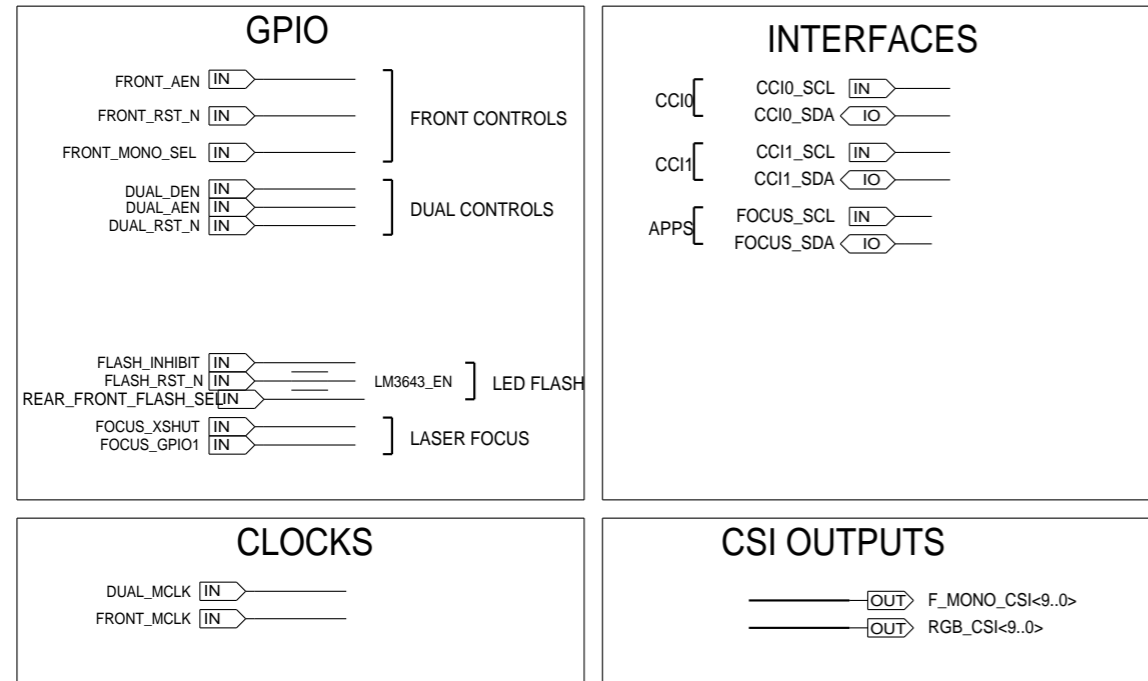
DUAL COAX CONNECTOR



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:32 2017		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 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 9 OF 91	

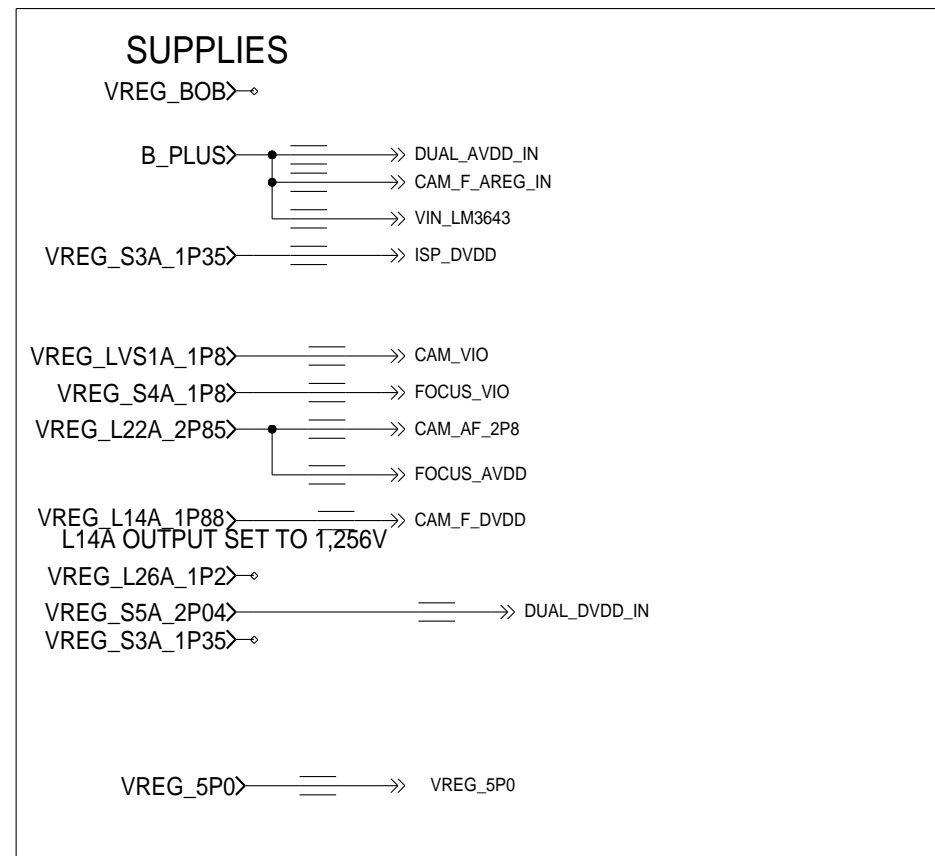
CAM: PORTS



APPROVALS			
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LAST MODIFIED BY: MOTOROLA Thu Sep 01 16:58:08 2016		<h2>imagers</h2>	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME B 84016657001_a.cpm	REV 03
		CAD FILE NAME:	PAGE 10 OF 91

CAM: POWER

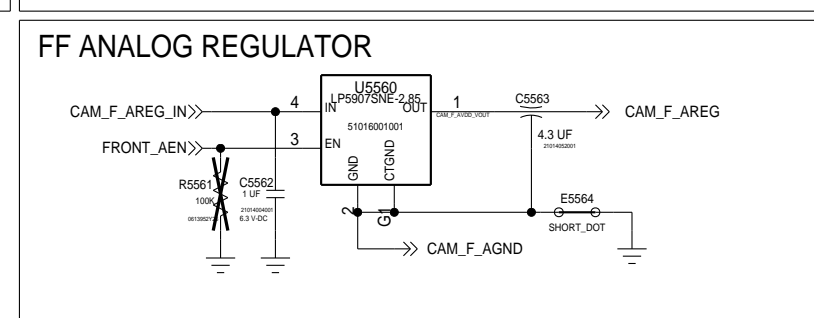
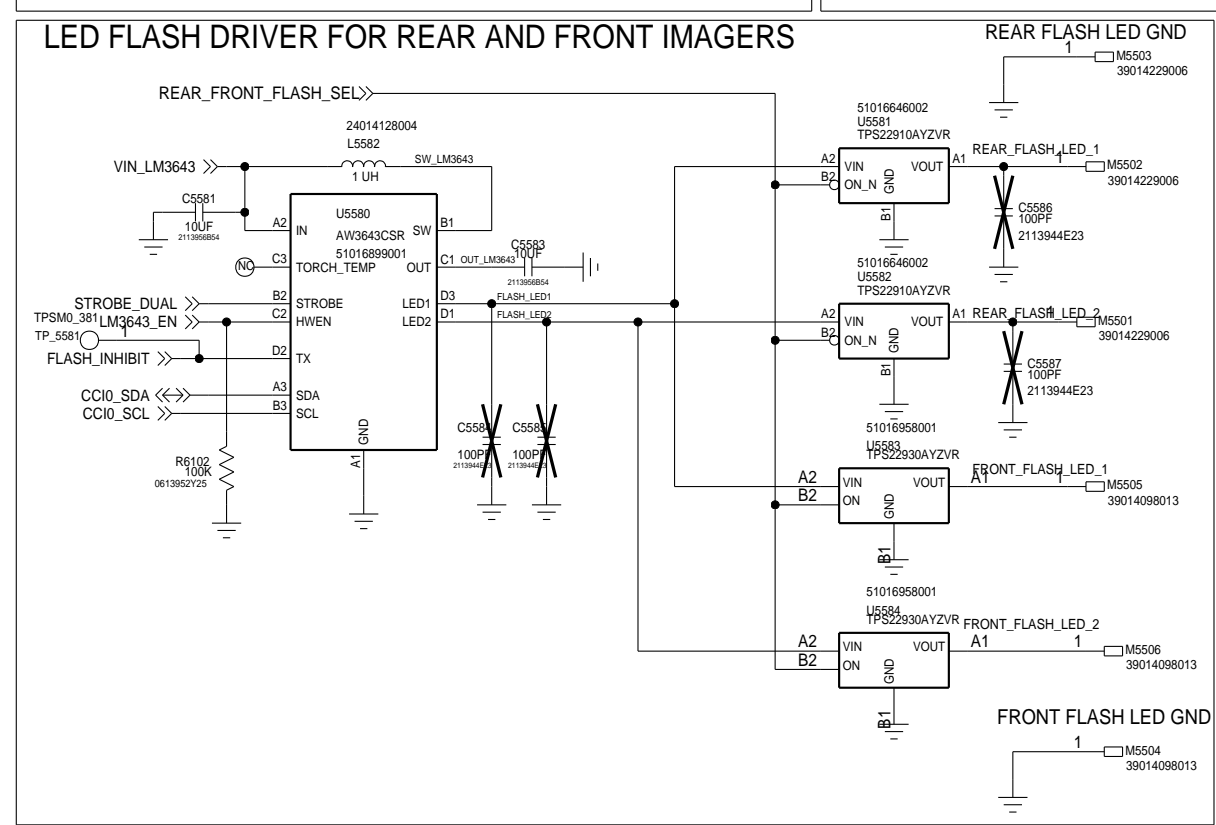
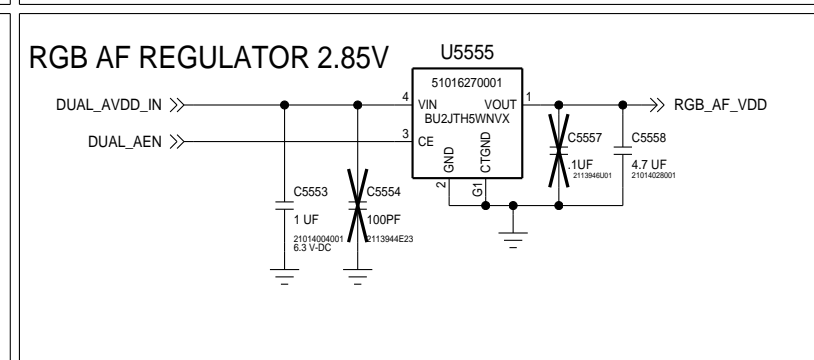
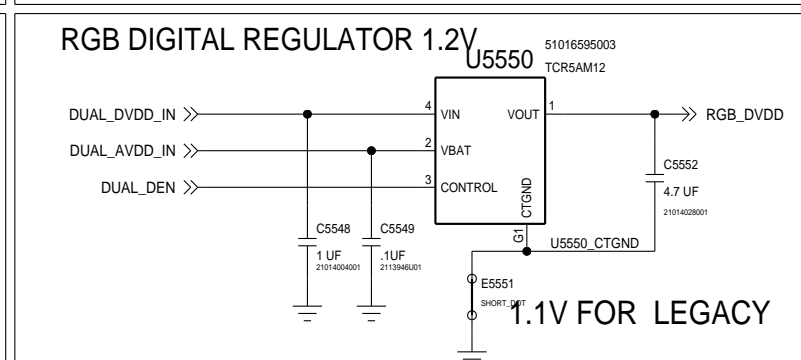
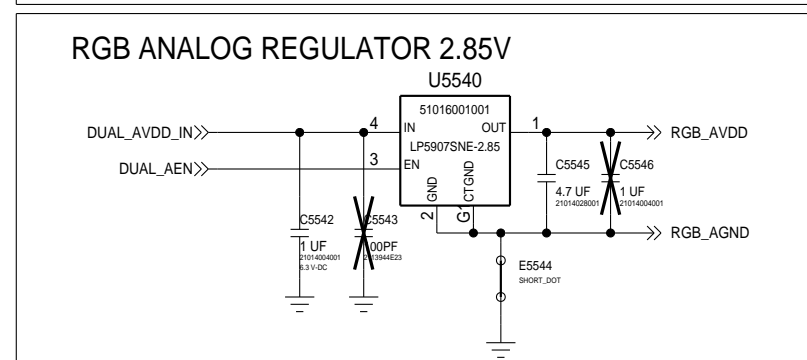
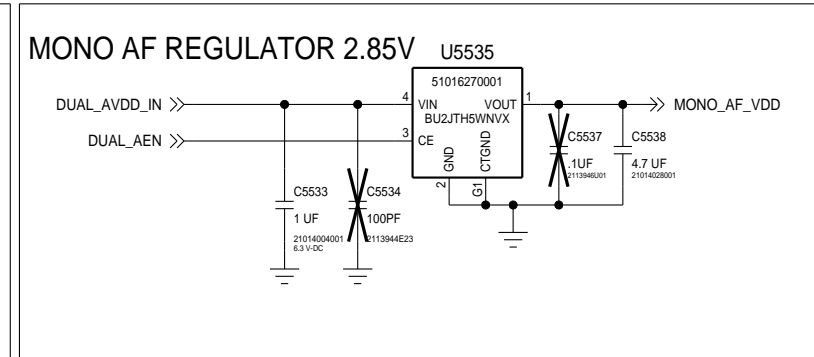
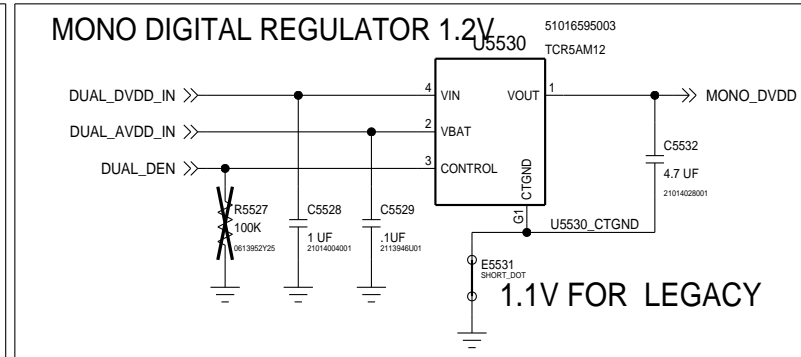
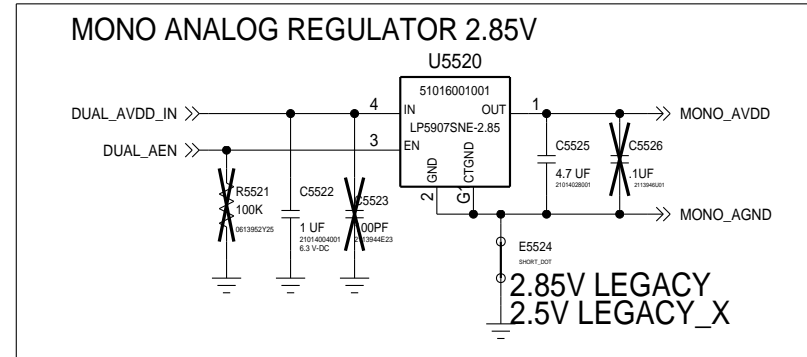
REF 5500-5519



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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:13:18 2017		imagers	
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		B 84016657001_a.cpm	03
		CAD FILE NAME:	PAGE 11 OF 91

CAM: POWER MANAGEMENT

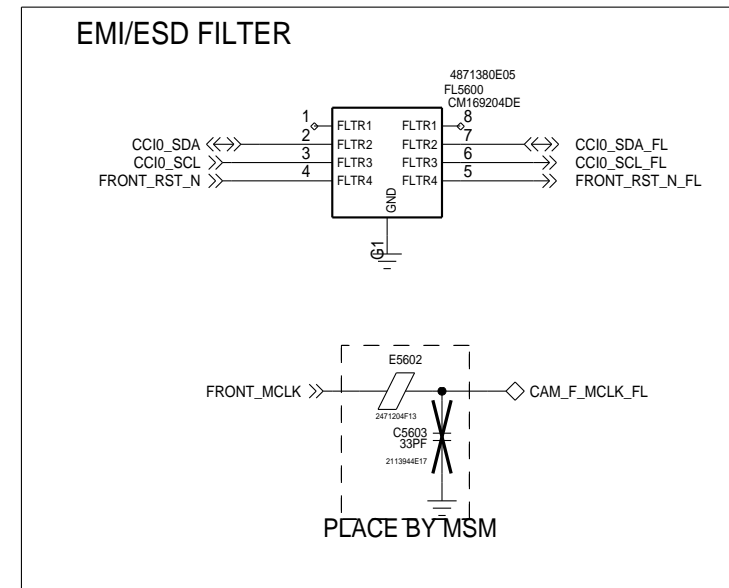
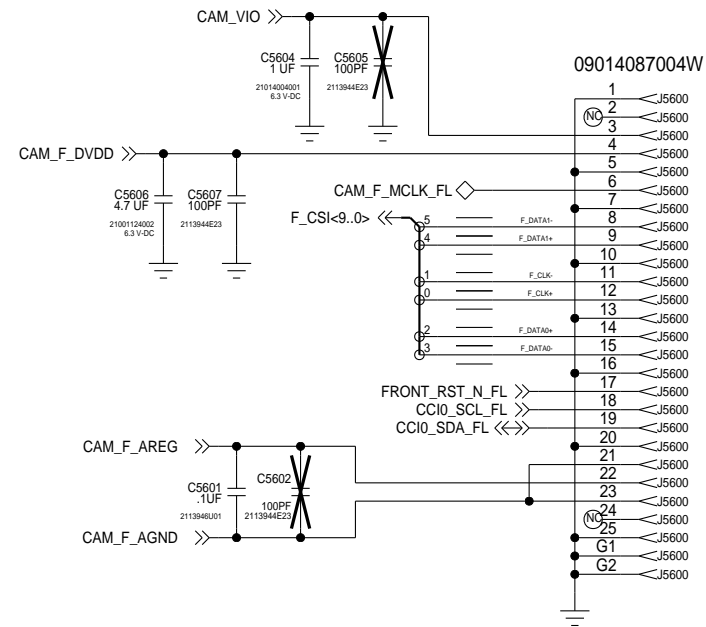
REF:5520-5539 MONO POWER
 REF:5540-5559 RGB POWER
 REF:5560-5579 FRONT POWER
 REF:5580-5599 FLASH DRIVER AND LEDS



APPROVALS		 MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:35 2017		<h2>imagers</h2>	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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CAD FILE NAME:		PAGE 12 OF 91	

CAM: FRONT

REF 5600-5649




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APPROVALS		MOTOROLA MOBILE DEVICES	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 13 OF 91	

DUAL CAM: MONO

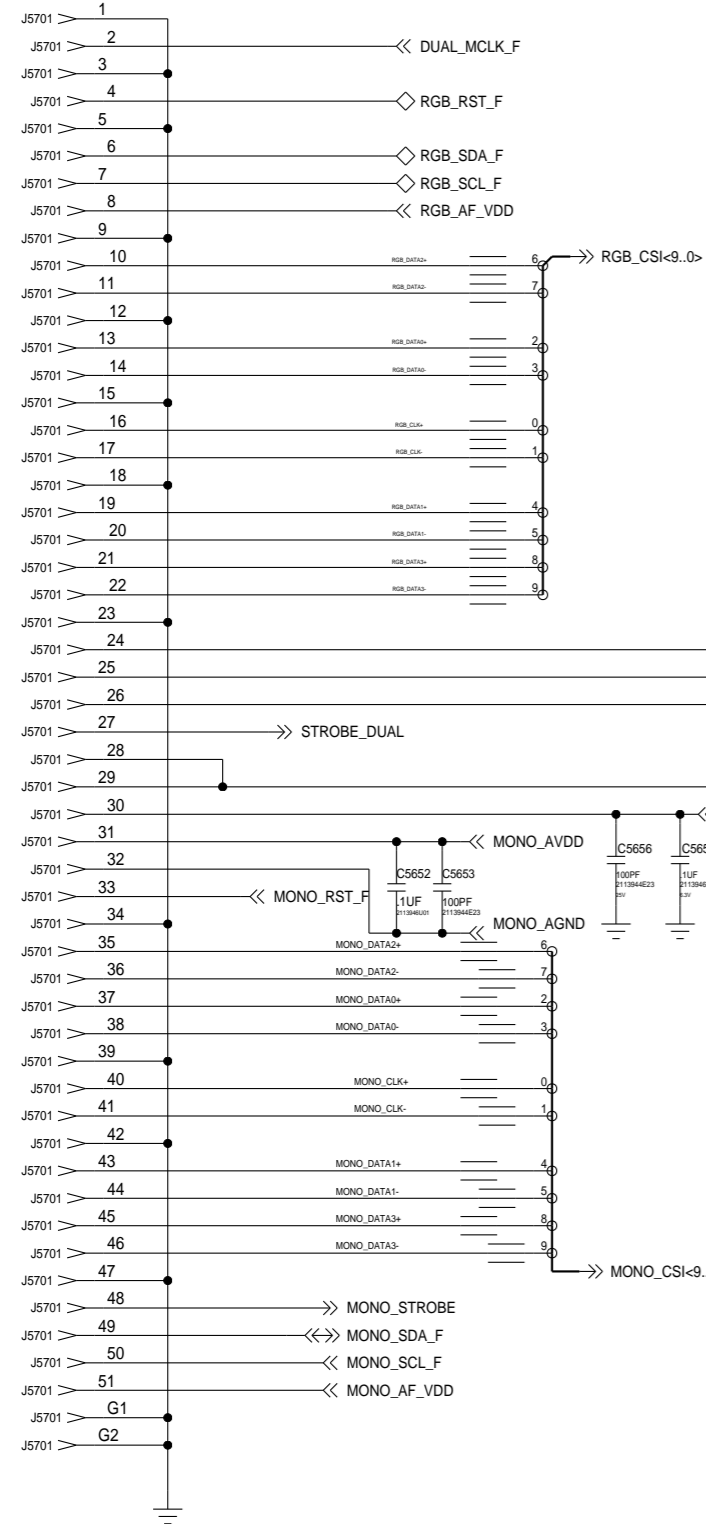
MONO MOVED TO DUAL CAM PAGE, LEAVE THIS PAGE BLANK

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Wed Aug 03 16:22:29 2016		imagers	
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CAD FILE NAME:			PAGE 14 OF 91

DUAL CAM: IMX386

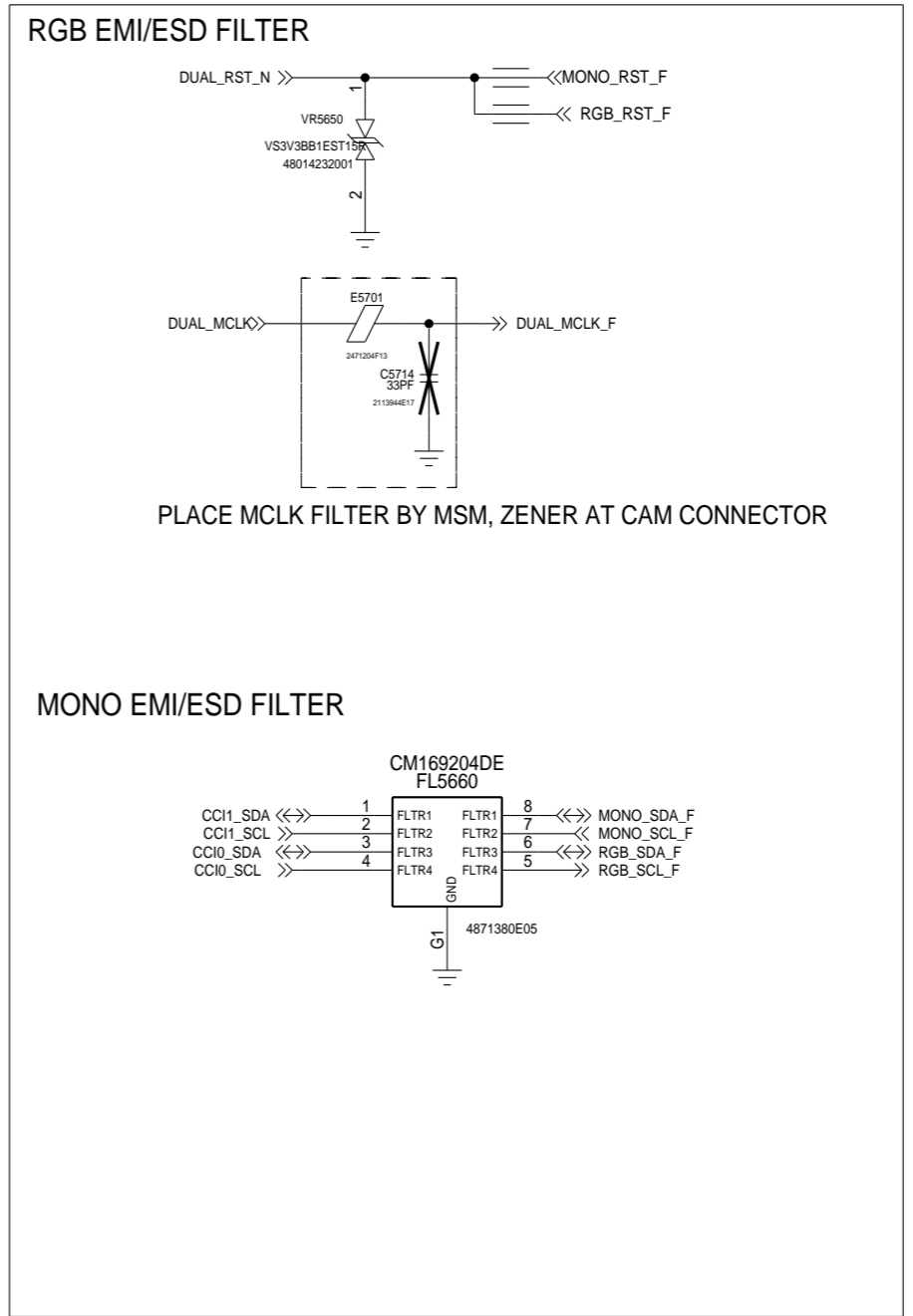
REF 5650-5749

09014221002W



RGB MODULE

I2C ADDR: 0X34



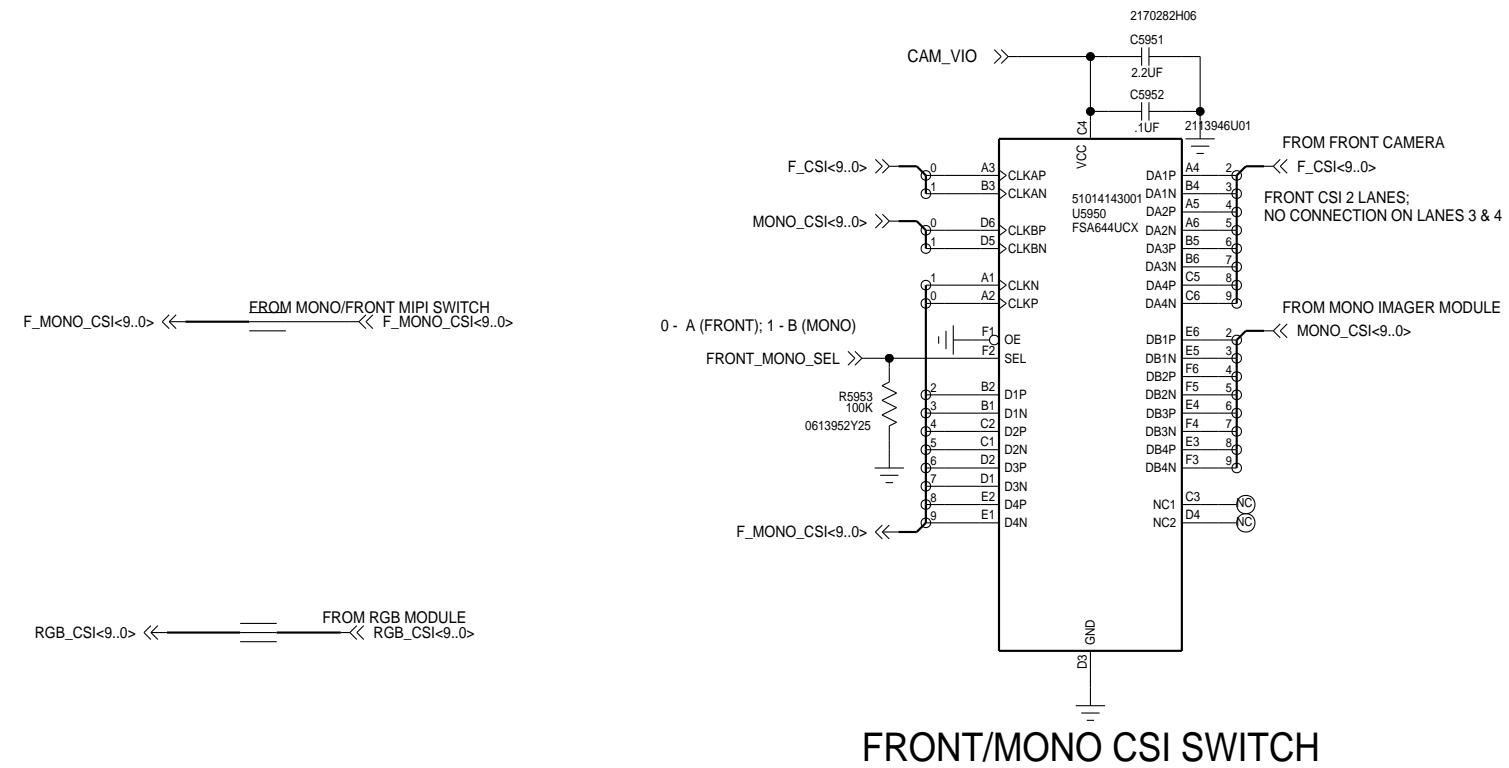
MONO MODULE

EARLY SAMPLES I2C ADDR: 0X34
UPDATED SAMPLES I2C ADDR: 0X20

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: imagers	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:36 2017		PROJECT NAME B 84016657001_a.cpm	
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		PAGE 15 OF 91	

DUAL CAM: AL3200 ISP
REF:5900-5999

AL3200 ISP DELETED

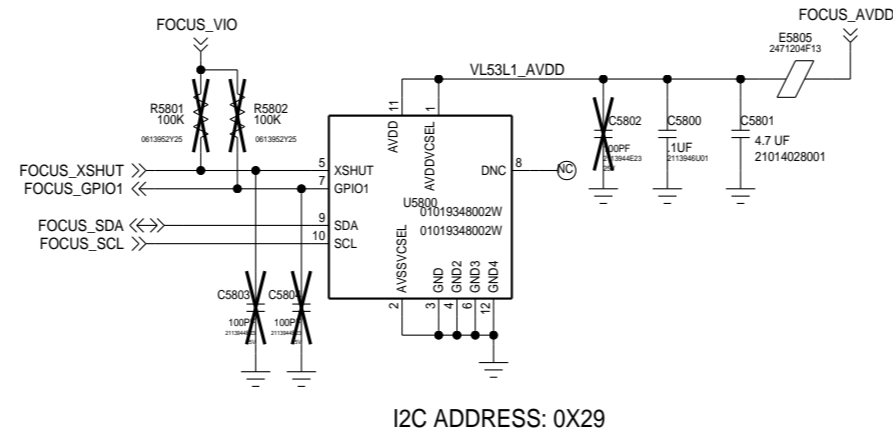


APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:38 2017		imagers	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 16 OF 91	

CAM: FOCUS

REF: 5800-5899

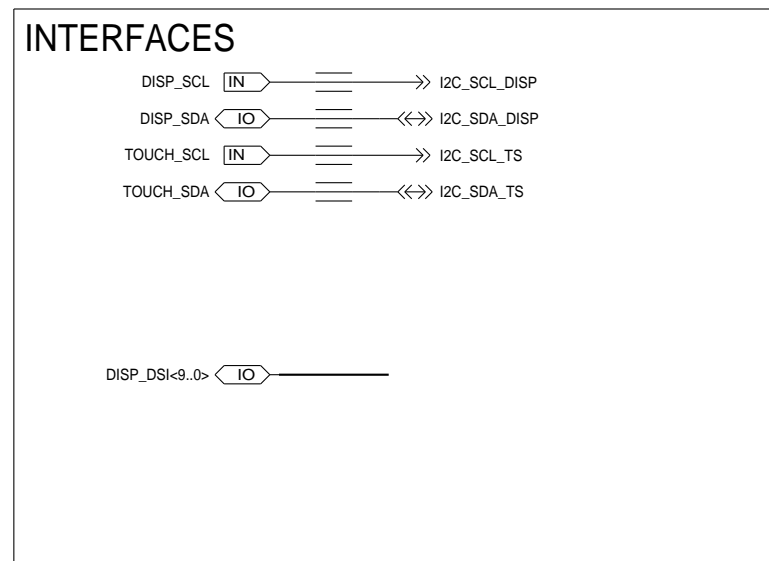
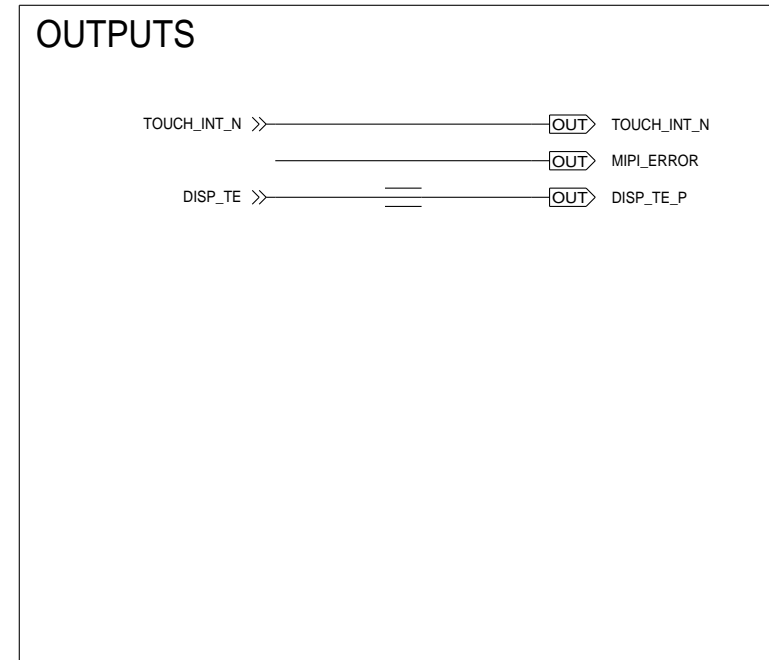
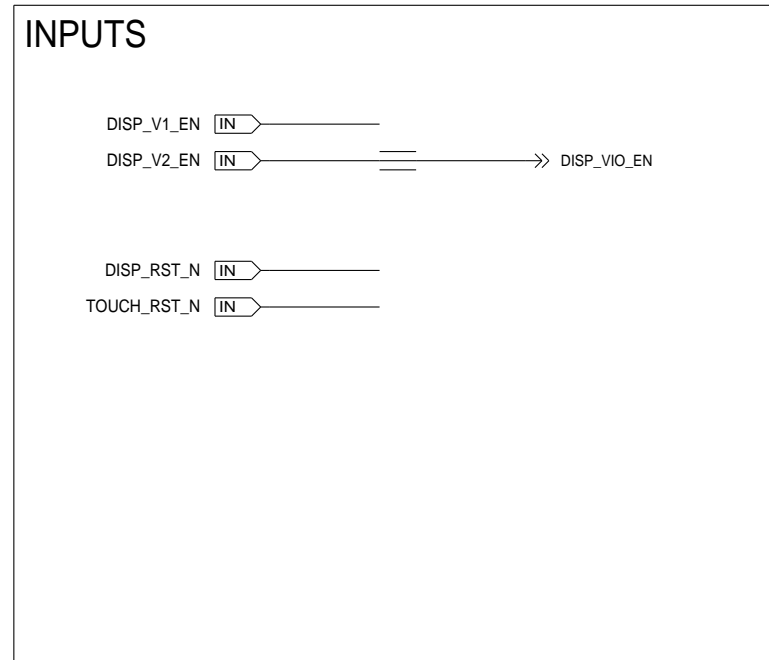
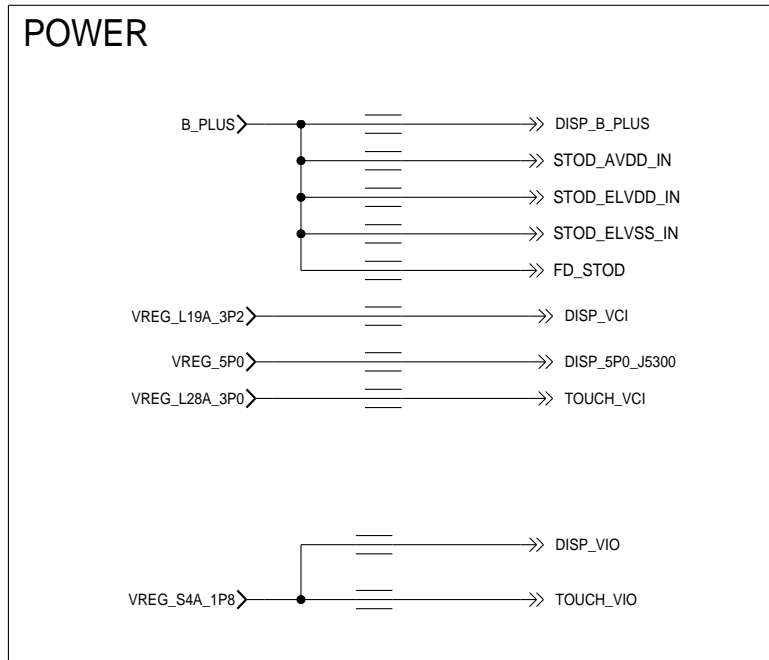
PLACE PULLUPS R5801 NEAR PM AND R5802 NEAR MSM TO REDUCE PARTS AT TOP.



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:37 2017		imagers	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 17 OF 91	

DISP: PORTS

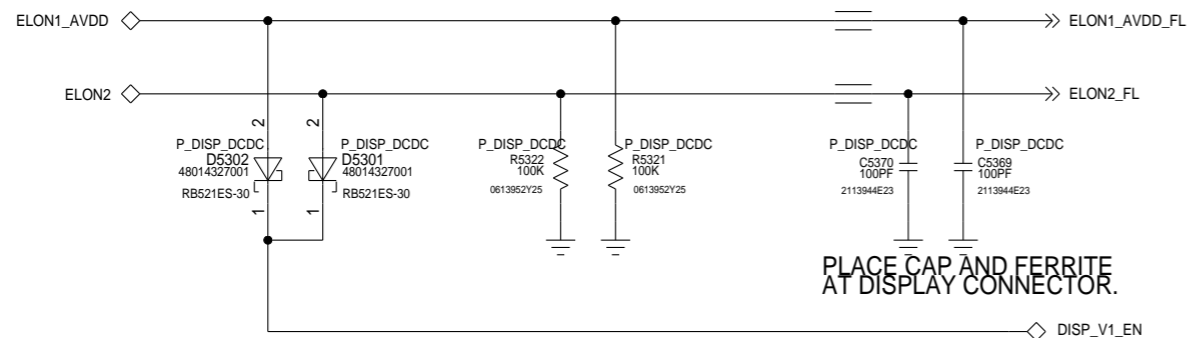
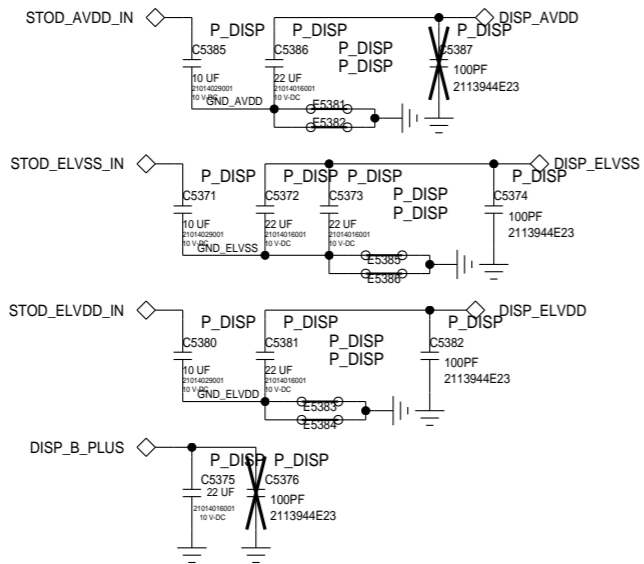
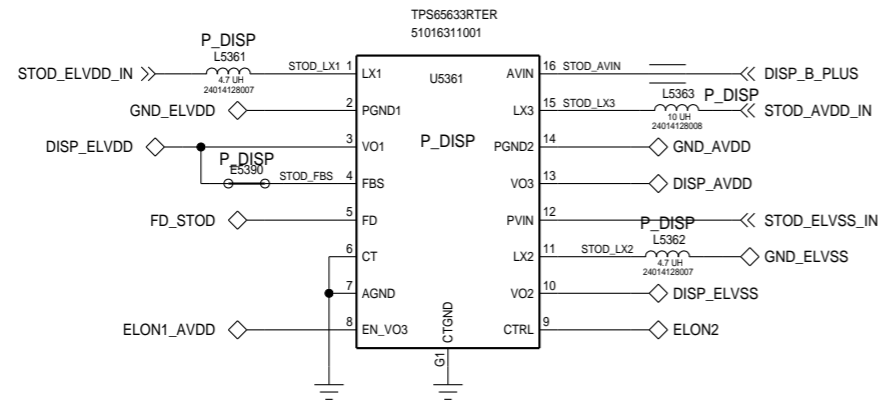
REF 5000-5499



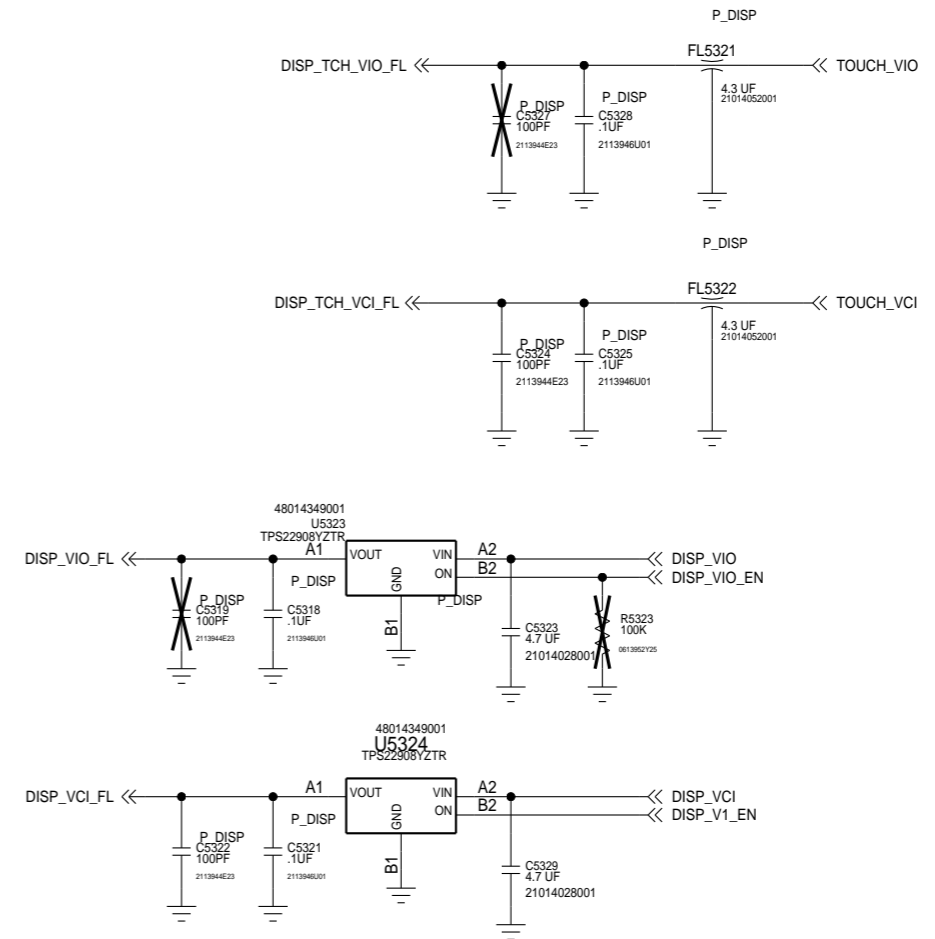
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:13:15 2017		display	
MOTOROLA CONFIDENTIAL RESTRICTED <small>THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION</small>		PROJECT NAME	REV
		B 84016657001_a.cpm	03
		CAD FILE NAME:	PAGE 18 OF 91

DISP: POWER

REF 5000-5499



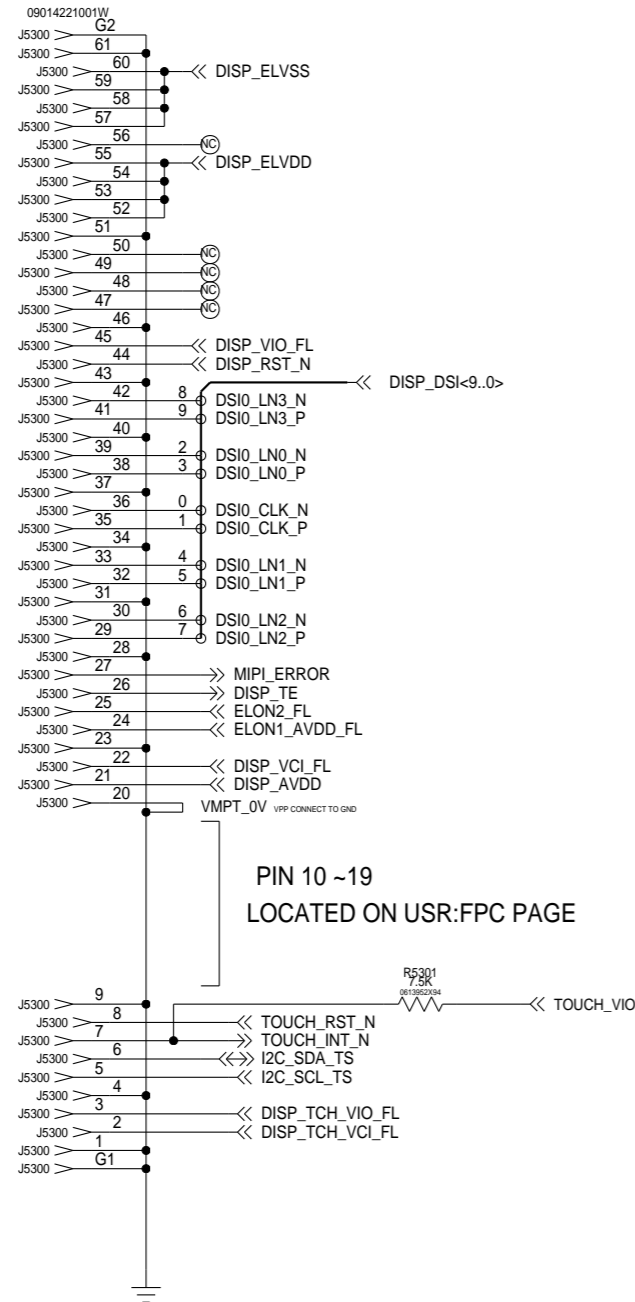
PLACE CAP AND FERRITE AT DISPLAY CONNECTOR.



APPROVALS			
ENGINEER: MOTOROLA		BLOCK TITLE: display	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:39 2017		PROJECT NAME 84016657001_a.cpm	
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DISP: CONNECTOR

REF 5300-5349



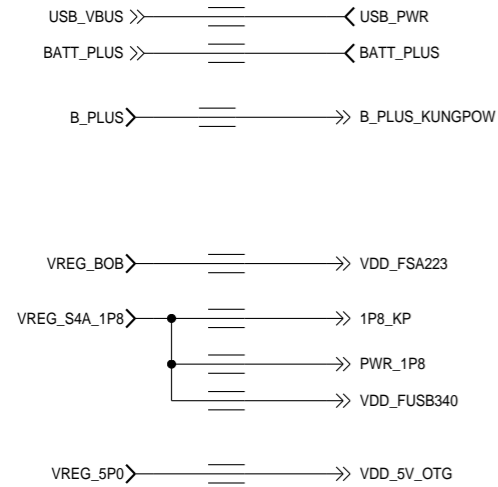
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:40 2017		display	
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CAD FILE NAME:		PAGE 20 OF 91	

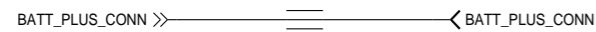
PWR: PORTS

REF 500-699

POWER

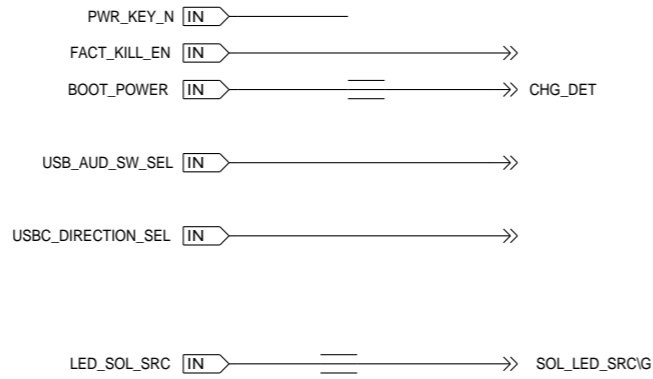


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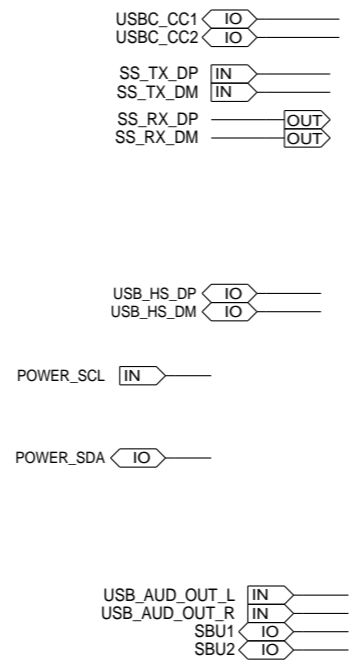


CURRENT DRAIN

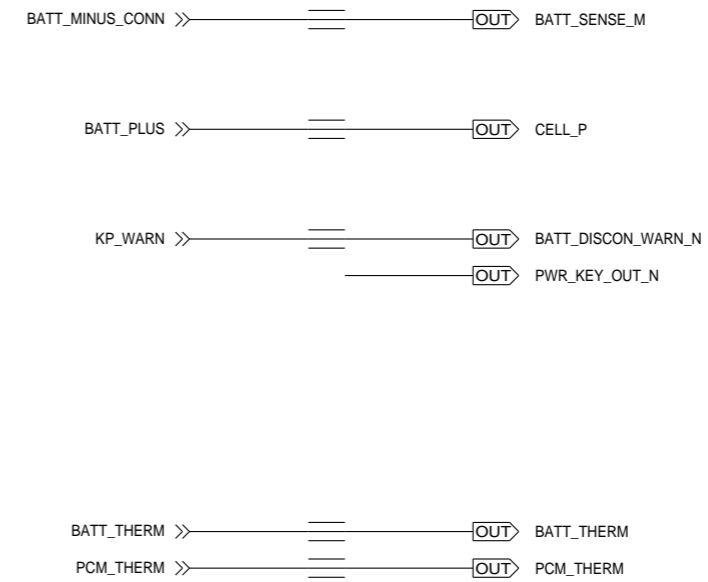
INPUTS



INTERFACES



OUTPUTS



APPROVALS

ENGINEER: MOTOROLA

LAST MODIFIED BY: MOTOROLA
Fri Mar 31 09:13:07 2017

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BLOCK TITLE:

power

PROJECT NAME
B 84016657001_a.cpm

REV
03

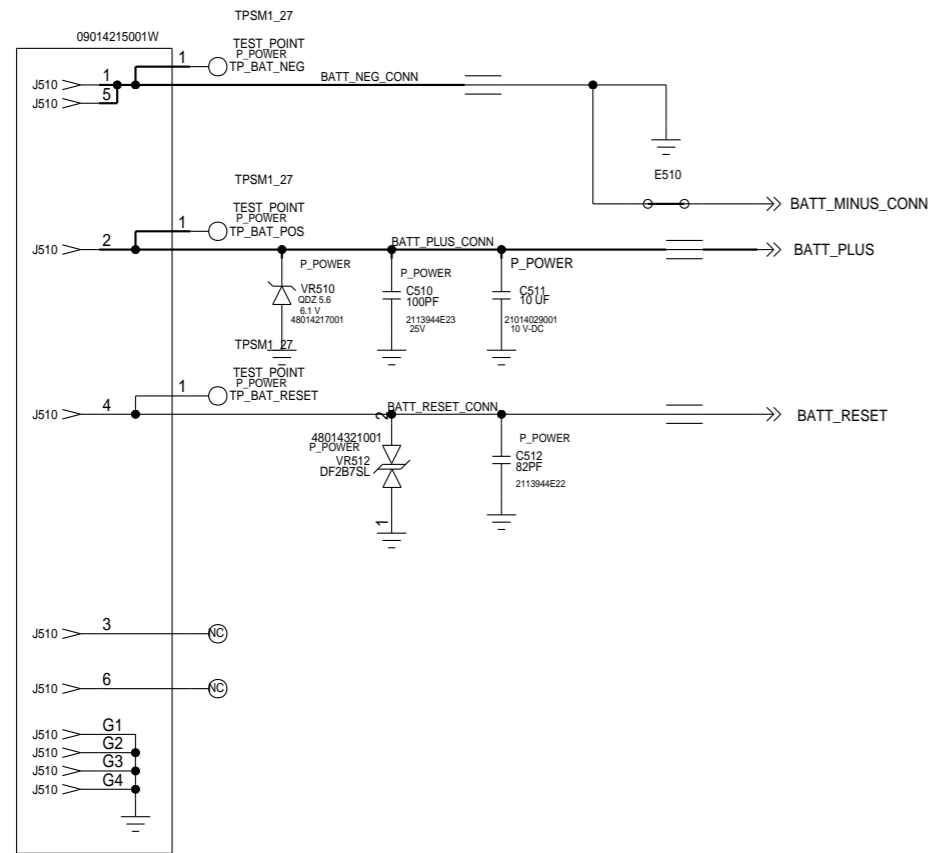
CAD FILE NAME:

PAGE 21 OF 91

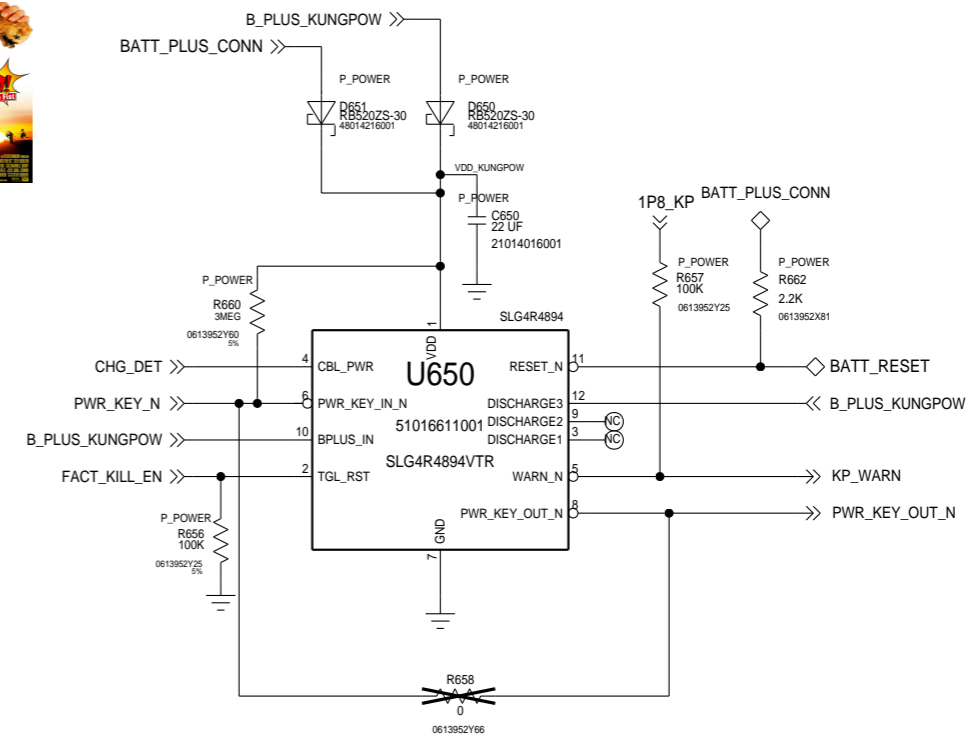
PWR: BATT

REF: 510-519, 650-659

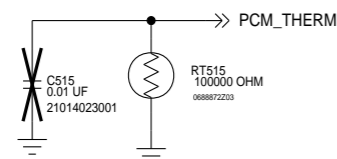
BATTERY BLOCK (VECTOR)



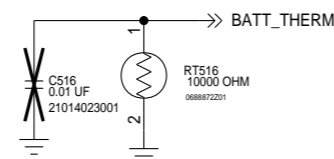
KUNG KOW BATTERY DISCONNECT



AUX_THERM



BATT_THERM



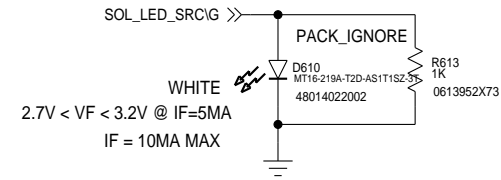
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APPROVALS		 MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:42 2017		power	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 22 OF 91	

PWR: LIGHTING

SOL LED
REF: 610-619

D610 MOVED TO PROX ZIF



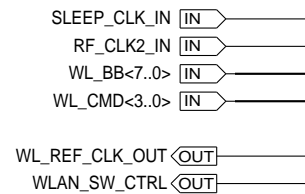
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APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:44 2017		power	
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CAD FILE NAME:			PAGE 24 OF 91

CONN: PORTS

REF 4000-4499

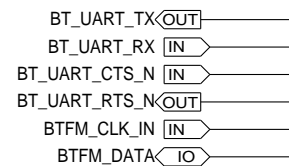
WL INTERFACE



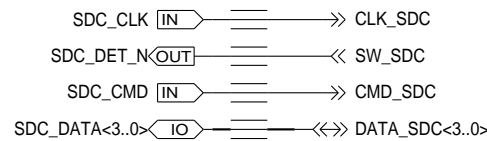
ANTENNA



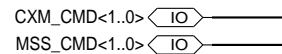
BT/FM INTERFACE



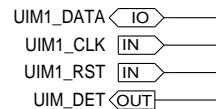
SDCARD



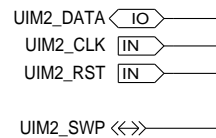
COEXISTENCE



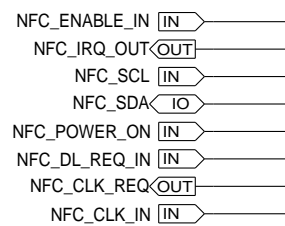
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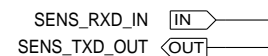
UIM2



NFC



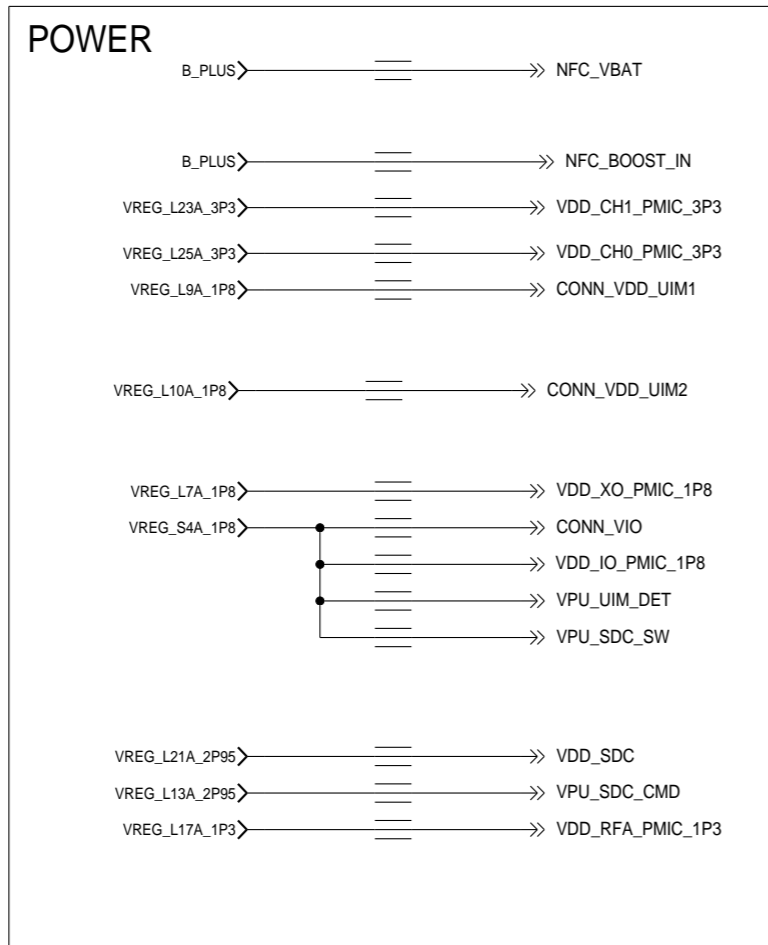
SSC



APPROVALS			
ENGINEER: MOTOROLA		BLOCK TITLE:	
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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 84016657001_a.cpm	REV 03
		PAGE 25 OF 91	

CONN: POWER

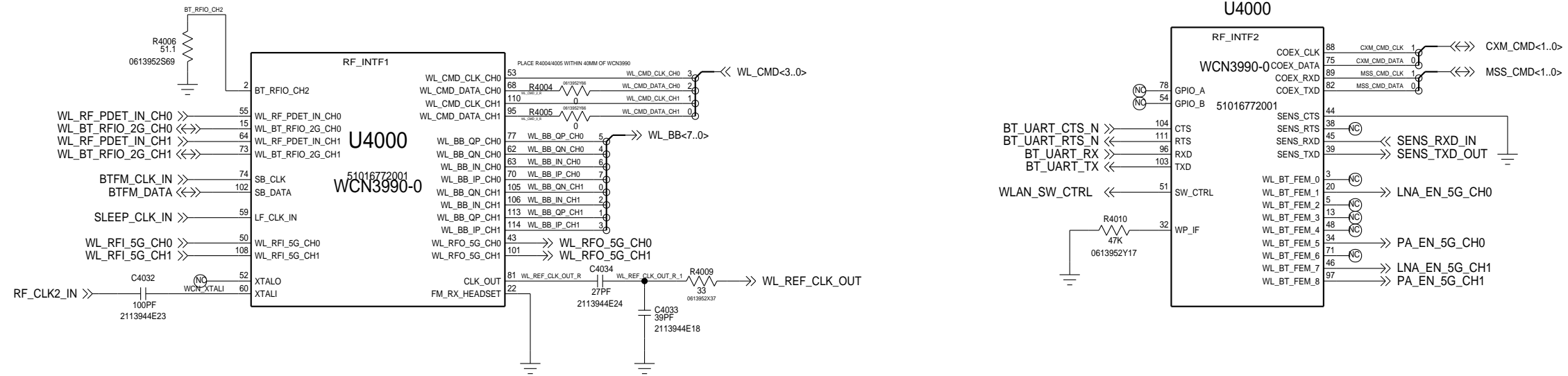
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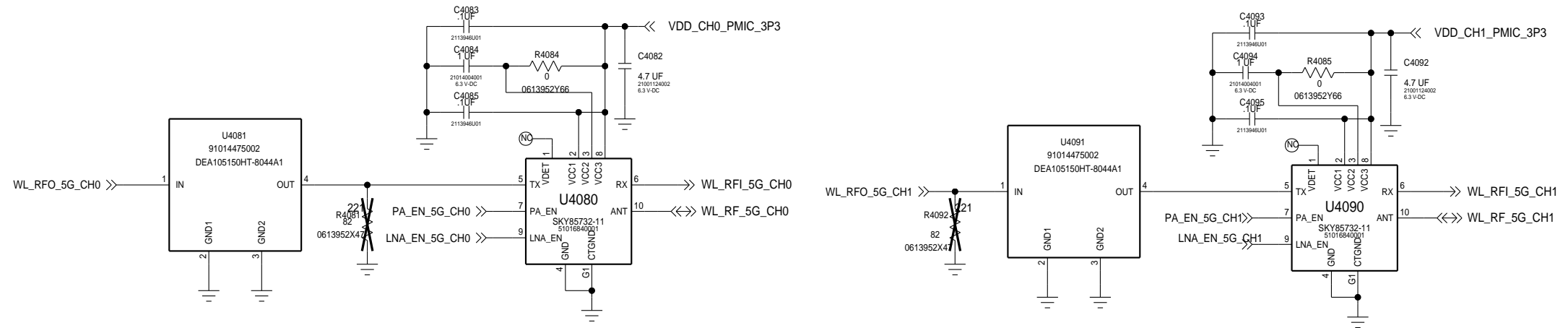
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		CAD FILE NAME:	PAGE 26 OF 91

CONN: WCN3990 RF/INTERFACES

REF: 4000-4099



5 GHZ FEMS



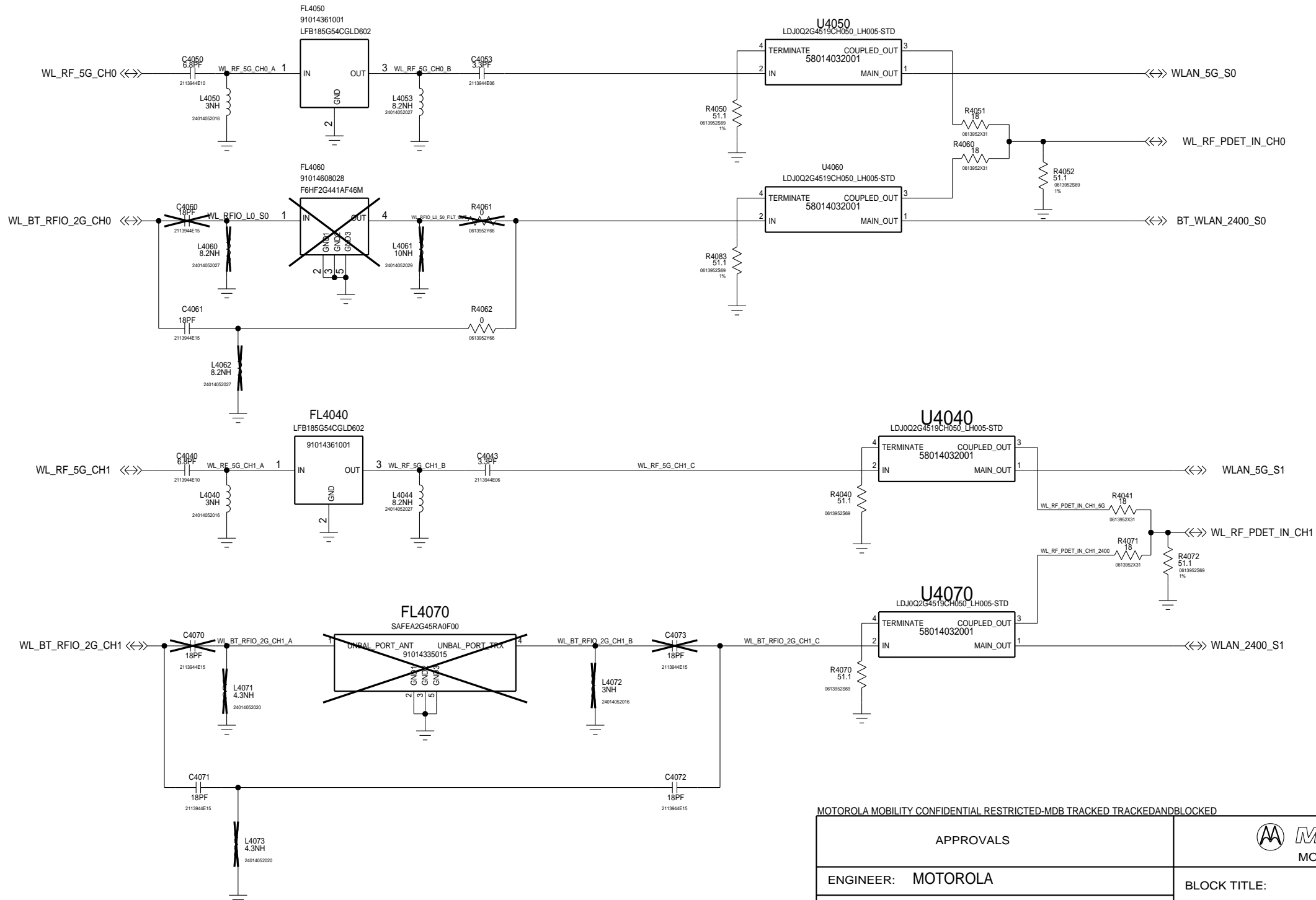
BASED ON 80-WL020-41 REV. B

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Sun Apr 09 17:14:36 2017		connectivity	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	
		PAGE 27 OF 91	

CONN: WCN3990 RADIO

REF 4040-4099



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

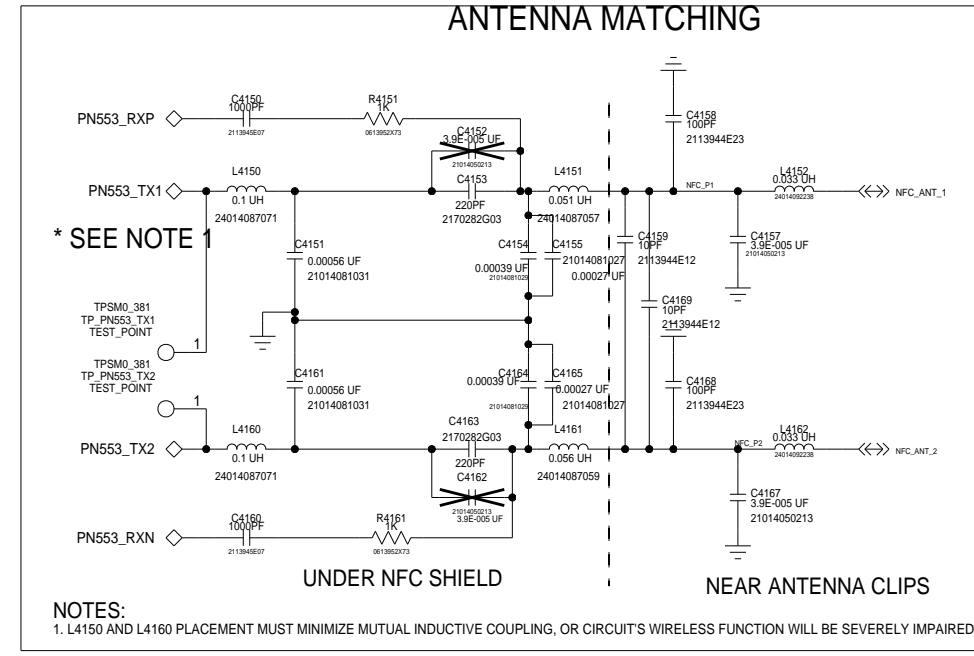
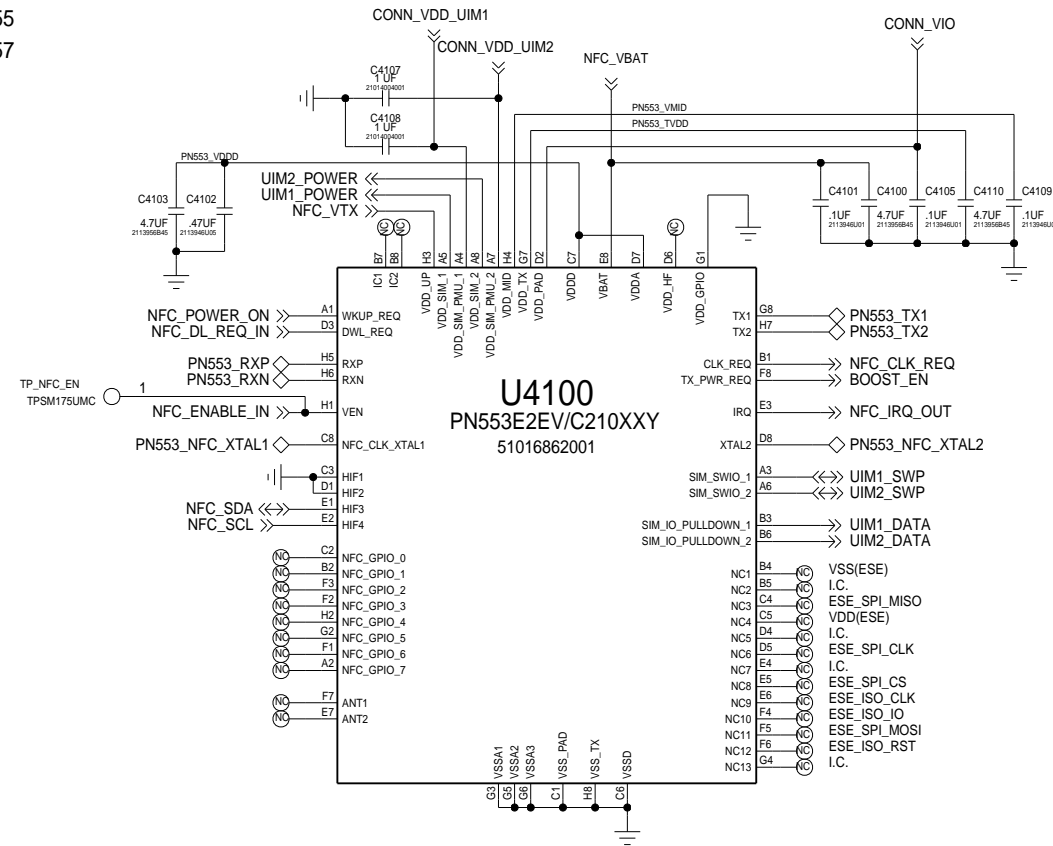
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:45 2017		connectivity	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 29 OF 91	

CONN: PN553 NFC

REF: 4100-4199

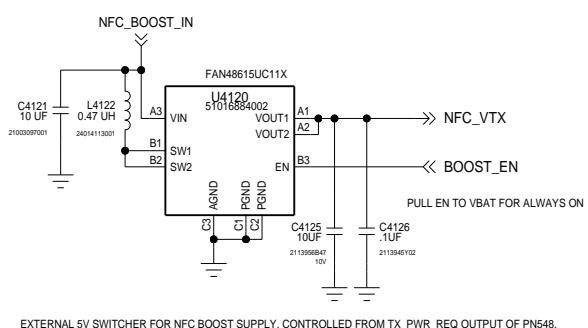
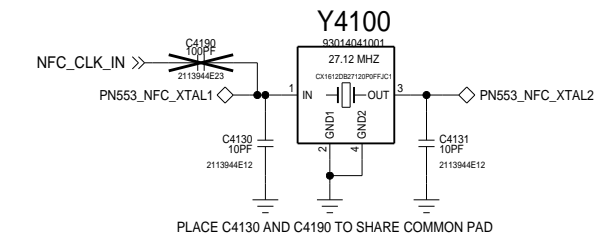
PN548 I2C ADDRESS MAP

HIF2	HIF1	BASE	WRITE	READ
LOW	LOW	0X28	0X50	0X51
LOW	HIGH	0X29	0X52	0X53
HIGH	LOW	0X2A	0X54	0X55
HIGH	HIGH	0X2B	0X56	0X57



REFERENCE DESIGNATOR 27.12 MHZ CRYSTAL OSCILLATOR 19.2 MHZ EXTERNAL CLOCK

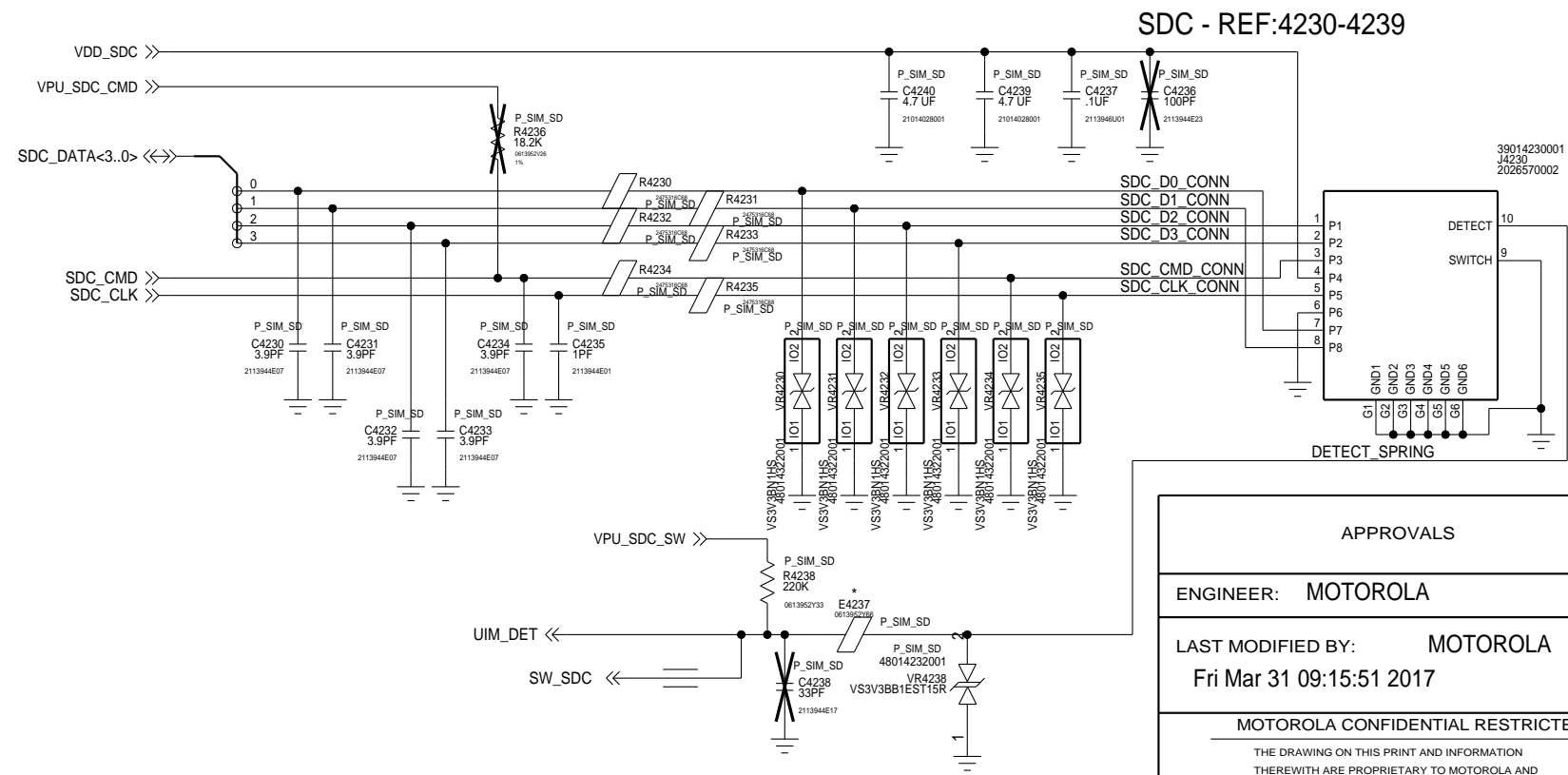
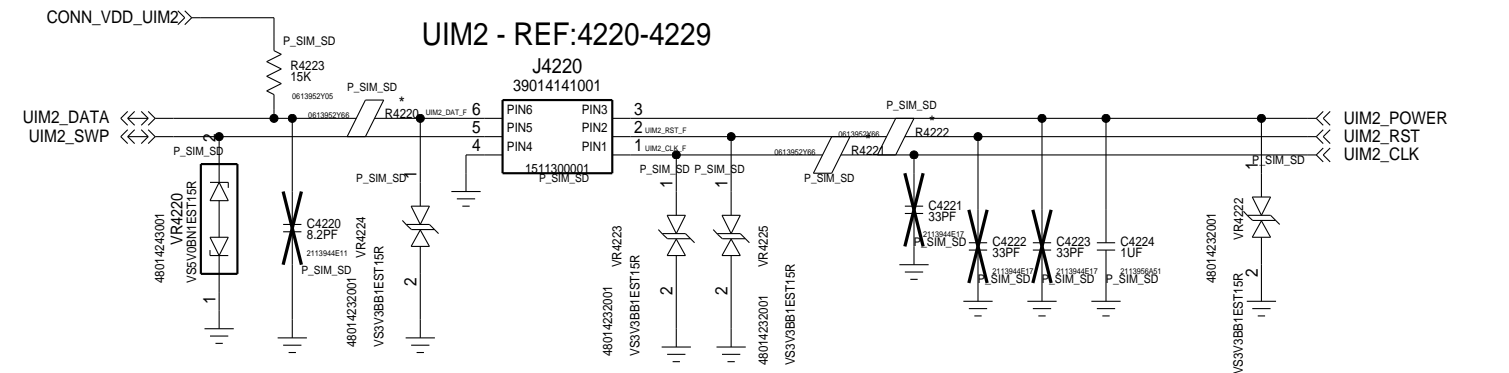
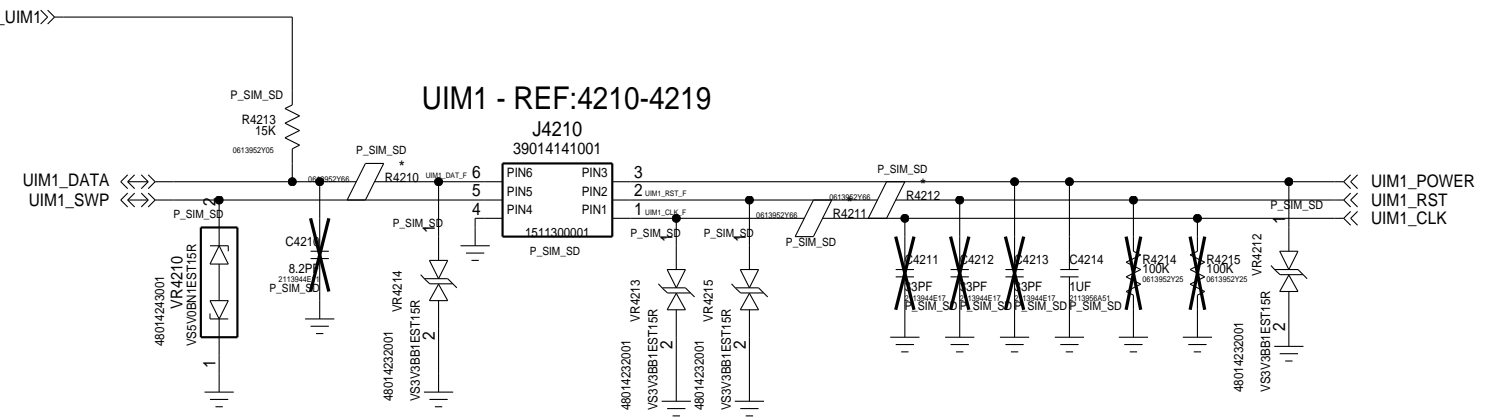
C4130	PLACE	DNI
C4131	PLACE	DNI
C4190	DNI	PLACE
Y4100	PLACE	DNI



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:47 2017		connectivity	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 30 OF 91	

CONN: UIM1 / UIM2 / SD

REF:4200-4299



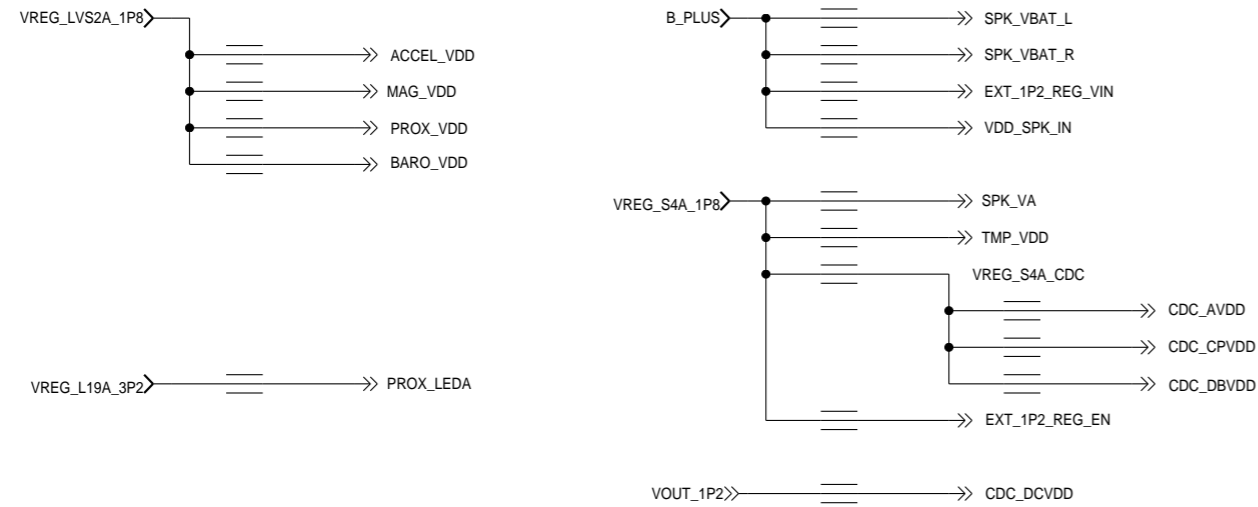
TRAY INSERTED = SWITCH CLOSED = LOGIC L
TRAY REMOVED = SWITCH OPEN = LOGIC H

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:51 2017		connectivity	
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 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 31 OF 91	

XMCS: POWER

REF 6000-6999

SUPPLIES

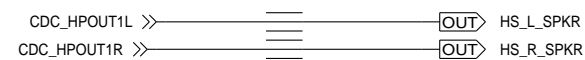
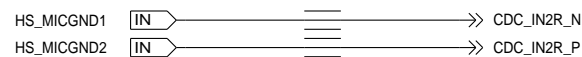
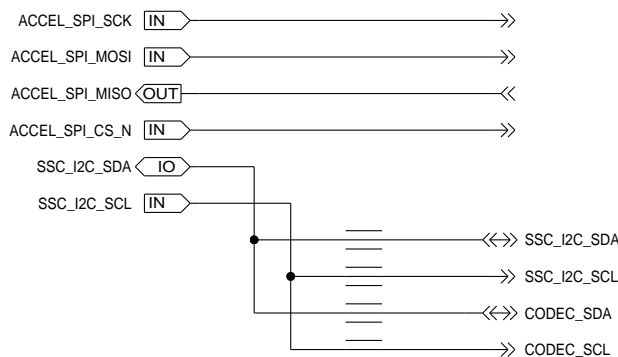
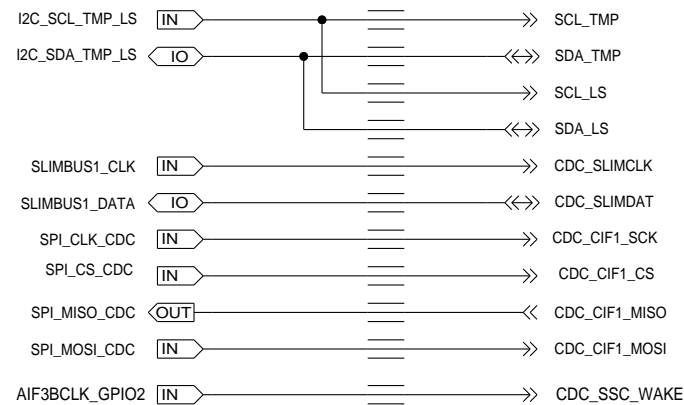


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MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	PAGE 32 OF 91

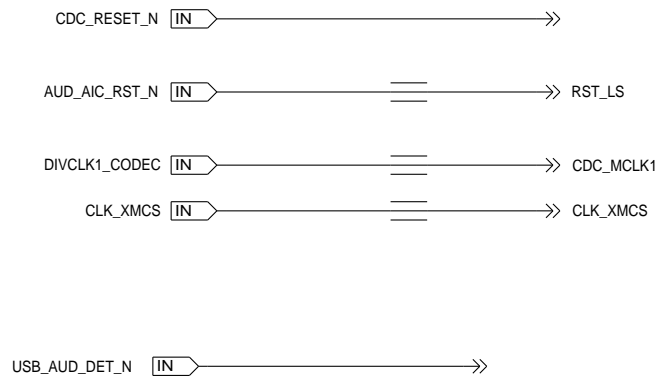
XMCS: PORTS

REF 6000-6999

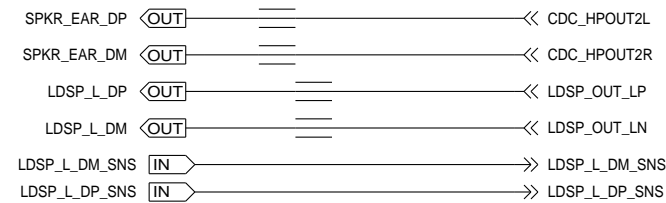
INTERFACES



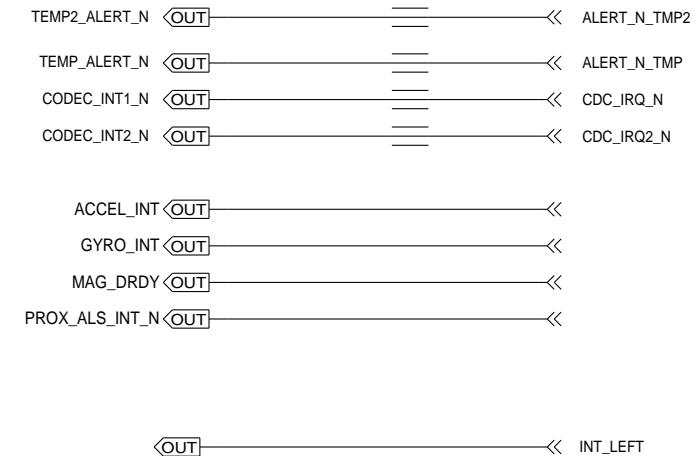
INPUTS



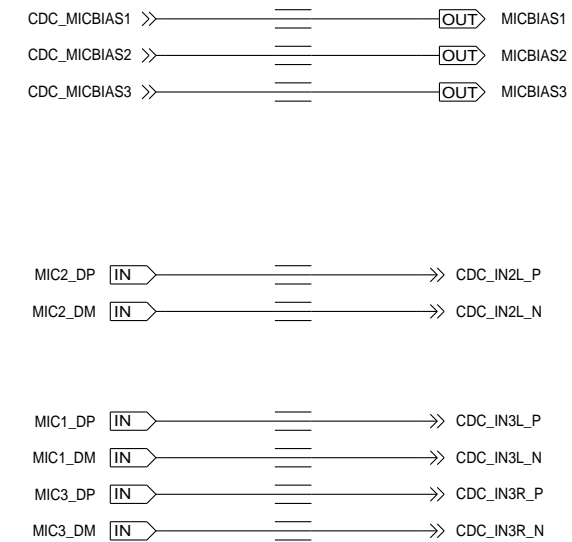
SPEAKER PATHS



OUTPUTS



MICROPHONES



APPROVALS

ENGINEER: MOTOROLA

LAST MODIFIED BY: MOTOROLA
Mon Oct 31 11:38:01 2016

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BLOCK TITLE:

xmcs

PROJECT NAME

B 84016657001_a.cpm

REV

03

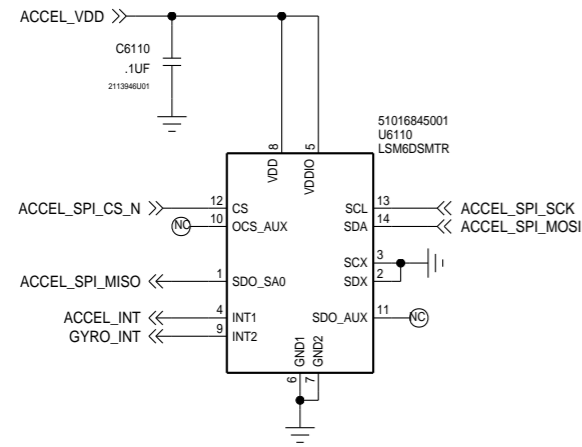
CAD FILE NAME:

PAGE 33 OF 91

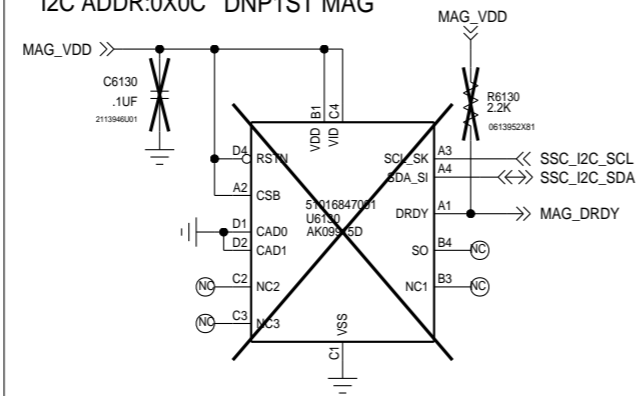
XMCS: SENSORS

REF: 6100-6199

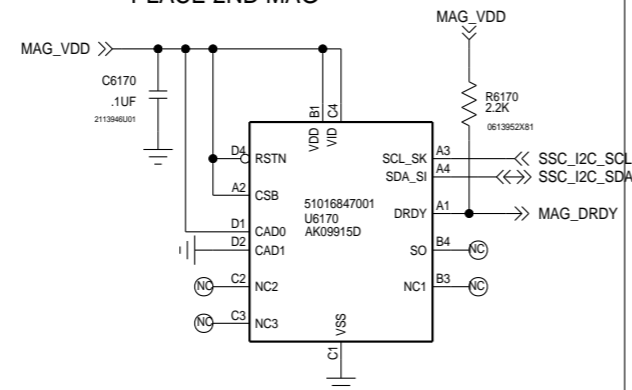
ACCELEROMETER/GYROSCOPE REF:6110-6119



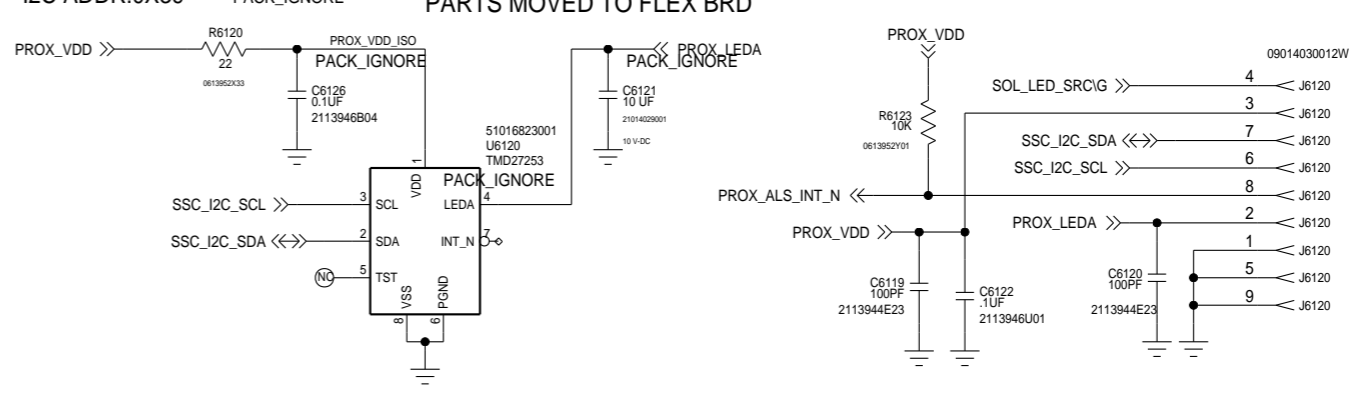
MAGNETOMETER REF:6130-6139 I2C ADDR:0X0C DNP1ST MAG



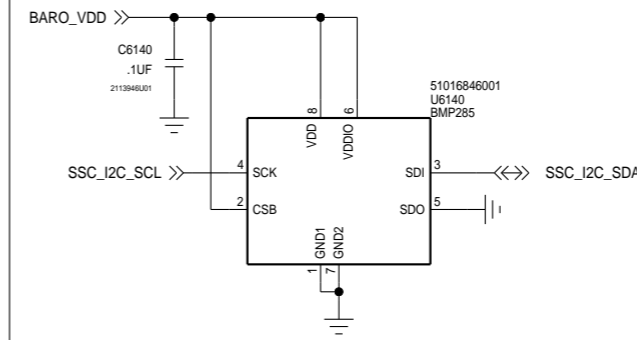
PLACE 2ND MAG



PROXIMITY/AMBIENT LIGHT/SOL FLEX INTERFACE REF:6120-6129 I2C ADDR:0X39



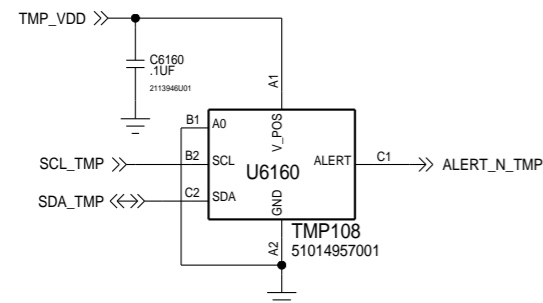
BAROMETER REF:6140-6149 I2C ADDR:0X77



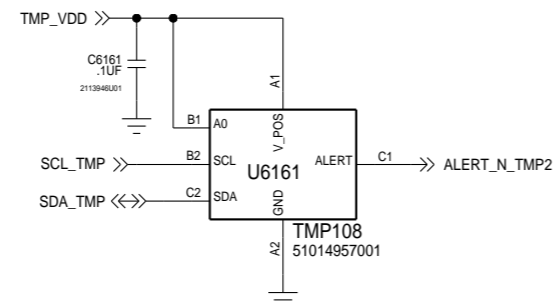
HALL EFFECT REF:6150-6159

DELETED

BOARD TEMP REF:6160-6169



BASE I2C ADDR: 0X48, WRITE 0X90, READ 0X91

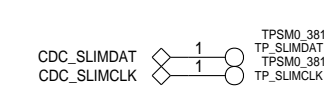
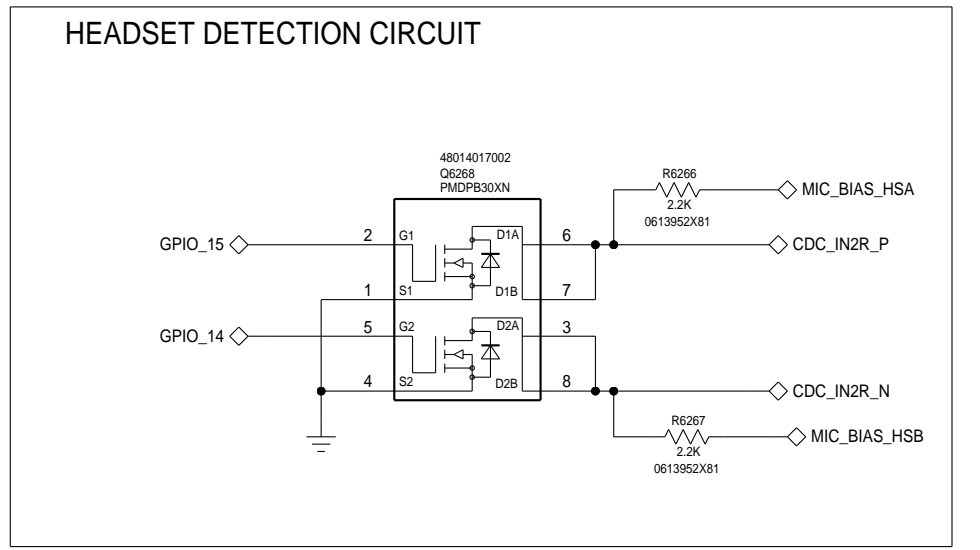
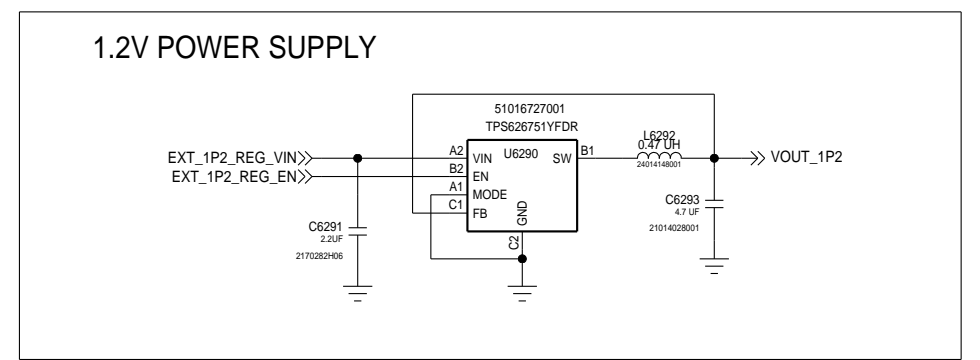
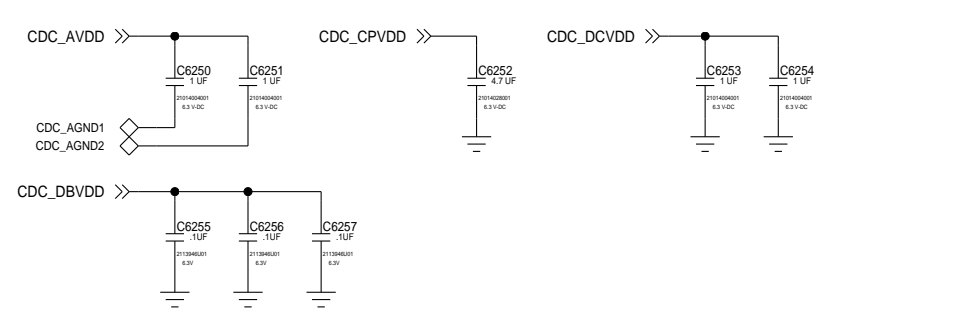
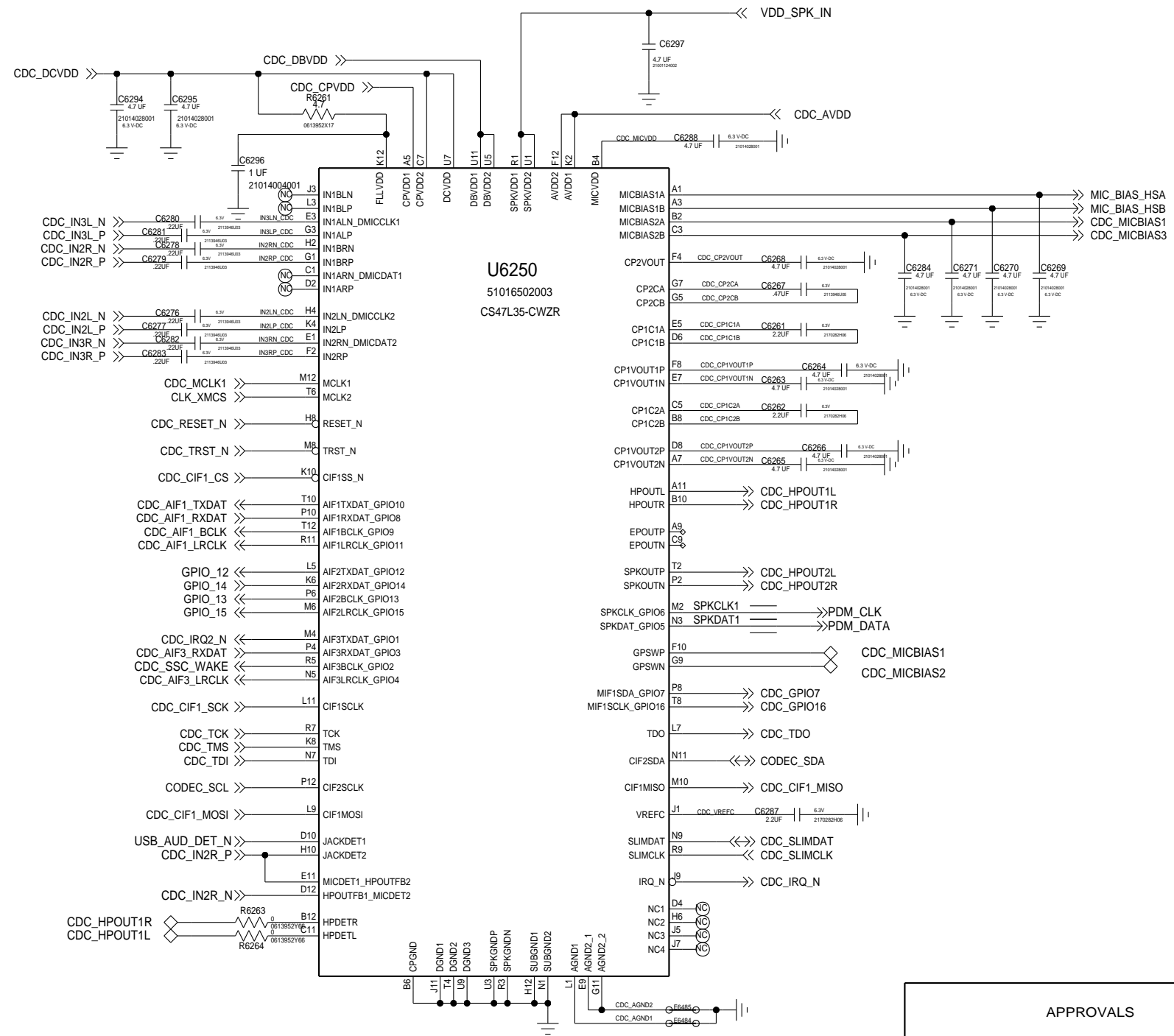


BASE I2C ADDR: 0X49

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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 34 OF 91	

XMCS: CIRRUS CODEC

REF 6250-6299



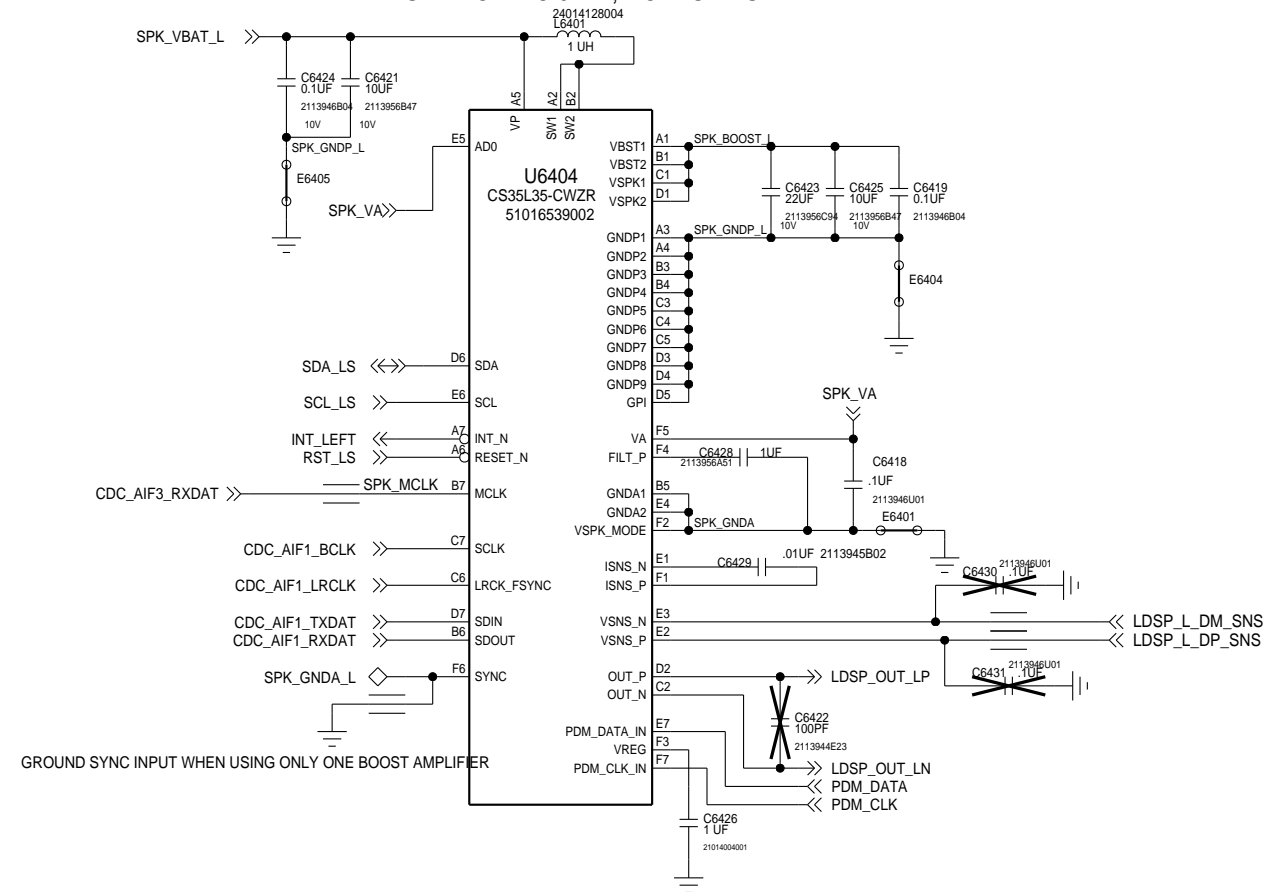
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:15:55 2017		PROJECT NAME B 84016657001_a.cpm	
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		PAGE 35 OF 91	


XMCS: LOUD SPEAKER

REF 6400-6499

LEFT SPEAKER AMP

BASE I2C ADDR: 0X40, WRITE 0X80, READ 0X81
LEFT SPKR ON I2C 0X41; NO RIGHT SPKR

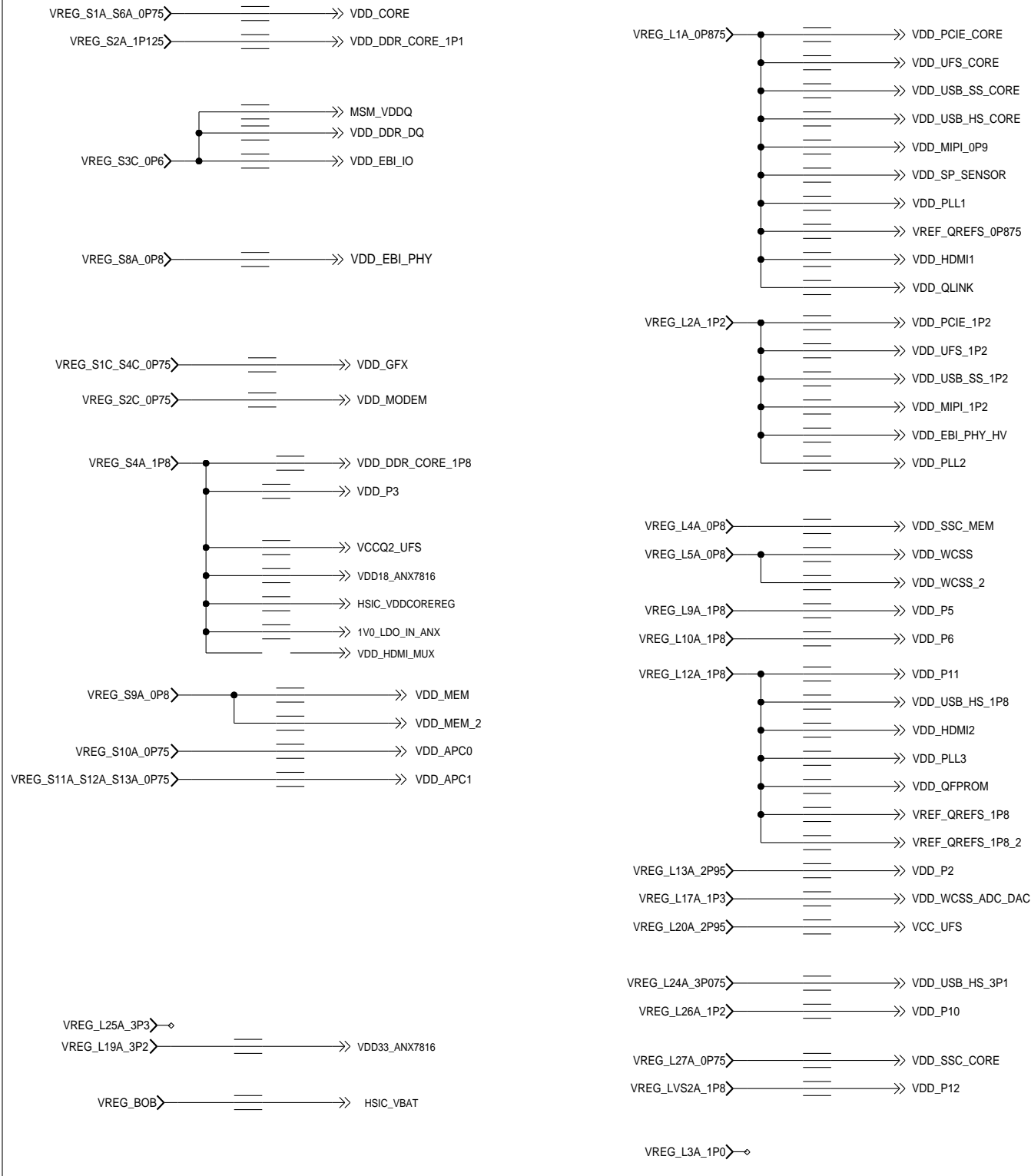


APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 36 OF 91	

MSM8998: POWER

REFDES: 1200-1299

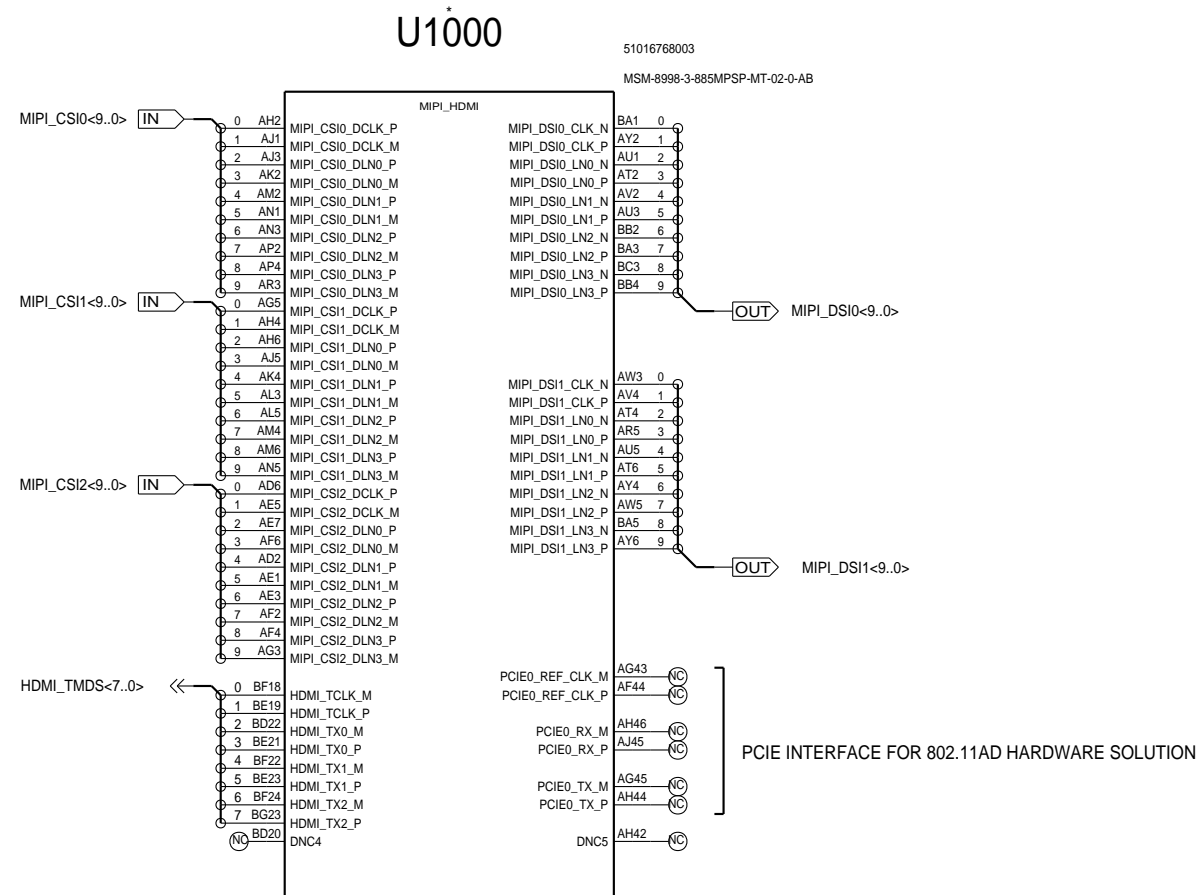
SUPPLIES



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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:12:26 2017		PROJECT NAME B 84016657001_a.cpm	
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		PAGE 37 OF 91	

MSM8998: MIPI/HDMI/PCIE

REFDES: 1030-1039

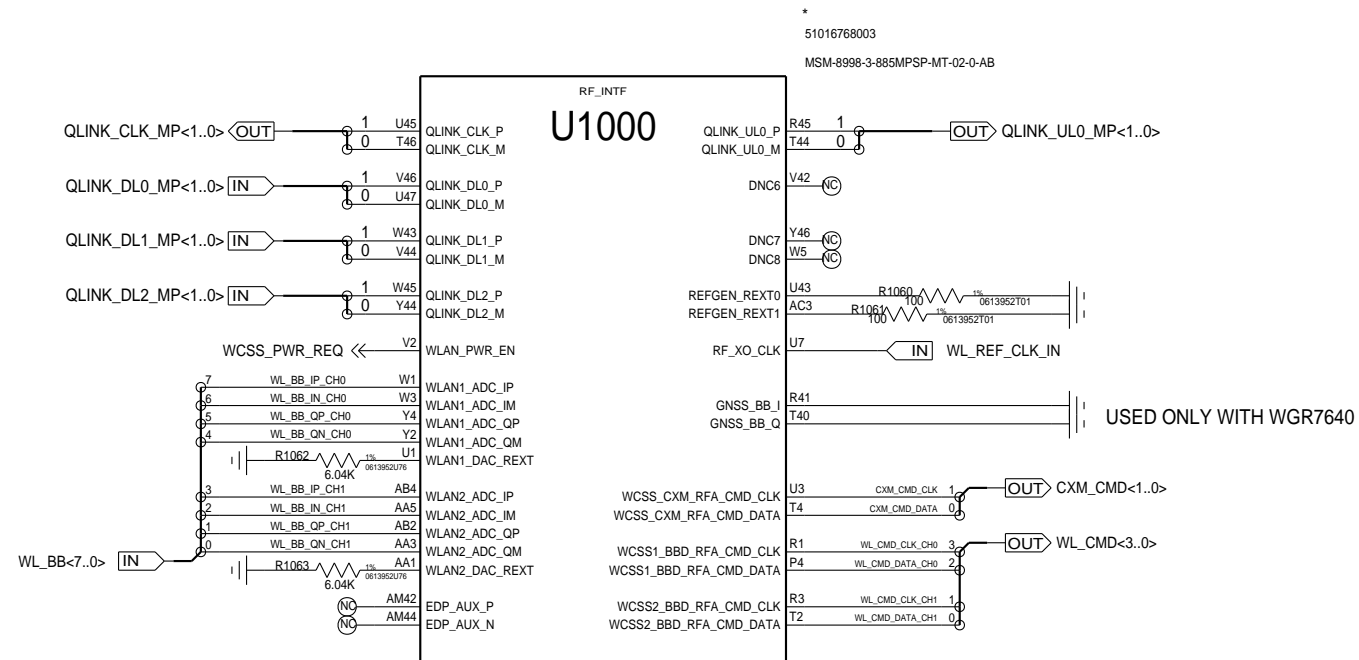


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:14 2017		ap_pmic	
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		CAD FILE NAME:	PAGE 39 OF 91

MSM8998: RF INTERFACE

REFDES: 1040-1049

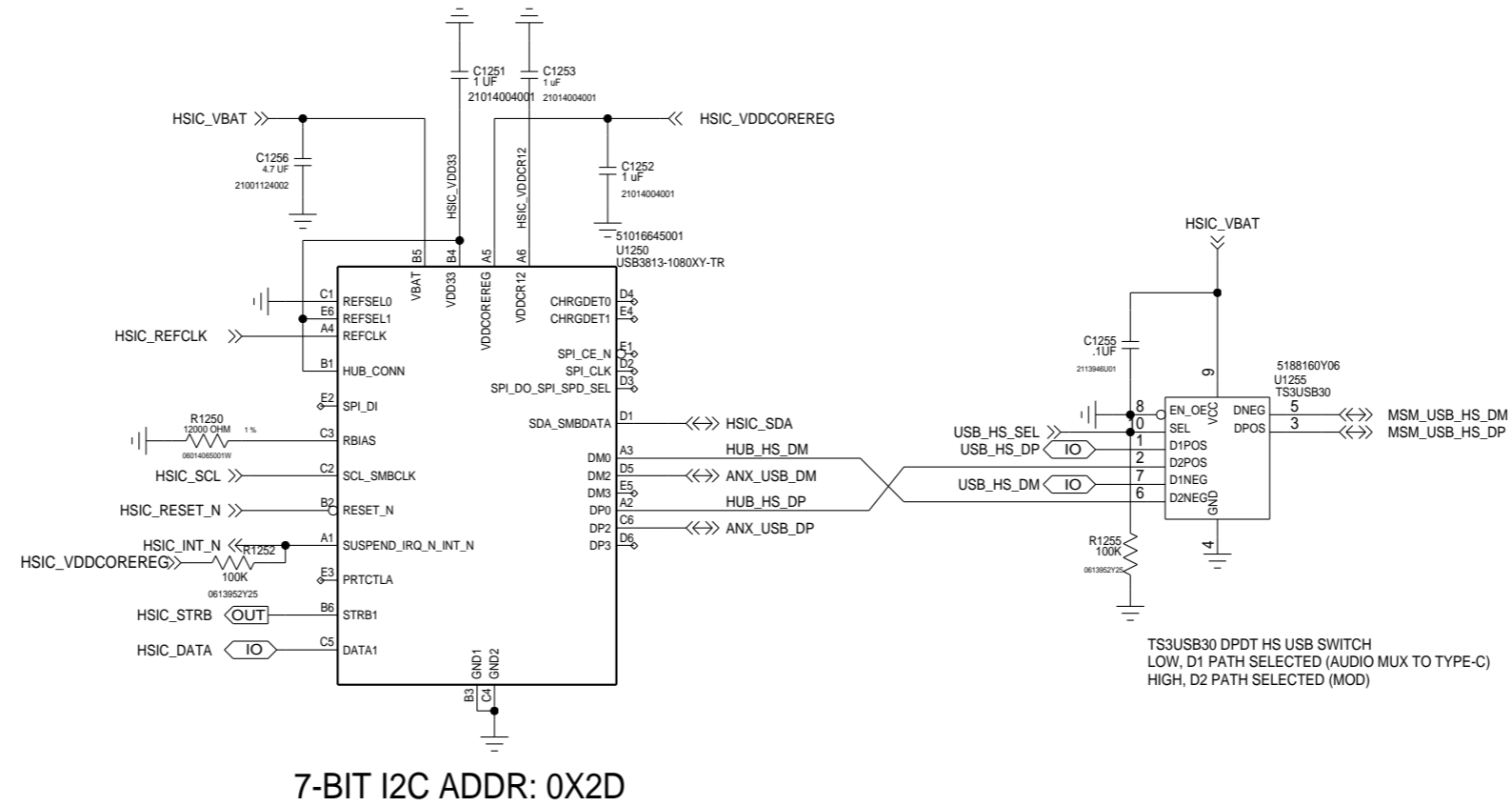


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOBILE DEVICES	
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		CAD FILE NAME:	PAGE 40 OF 91

MSM8998: HSIC

REFDES: 1250-1279



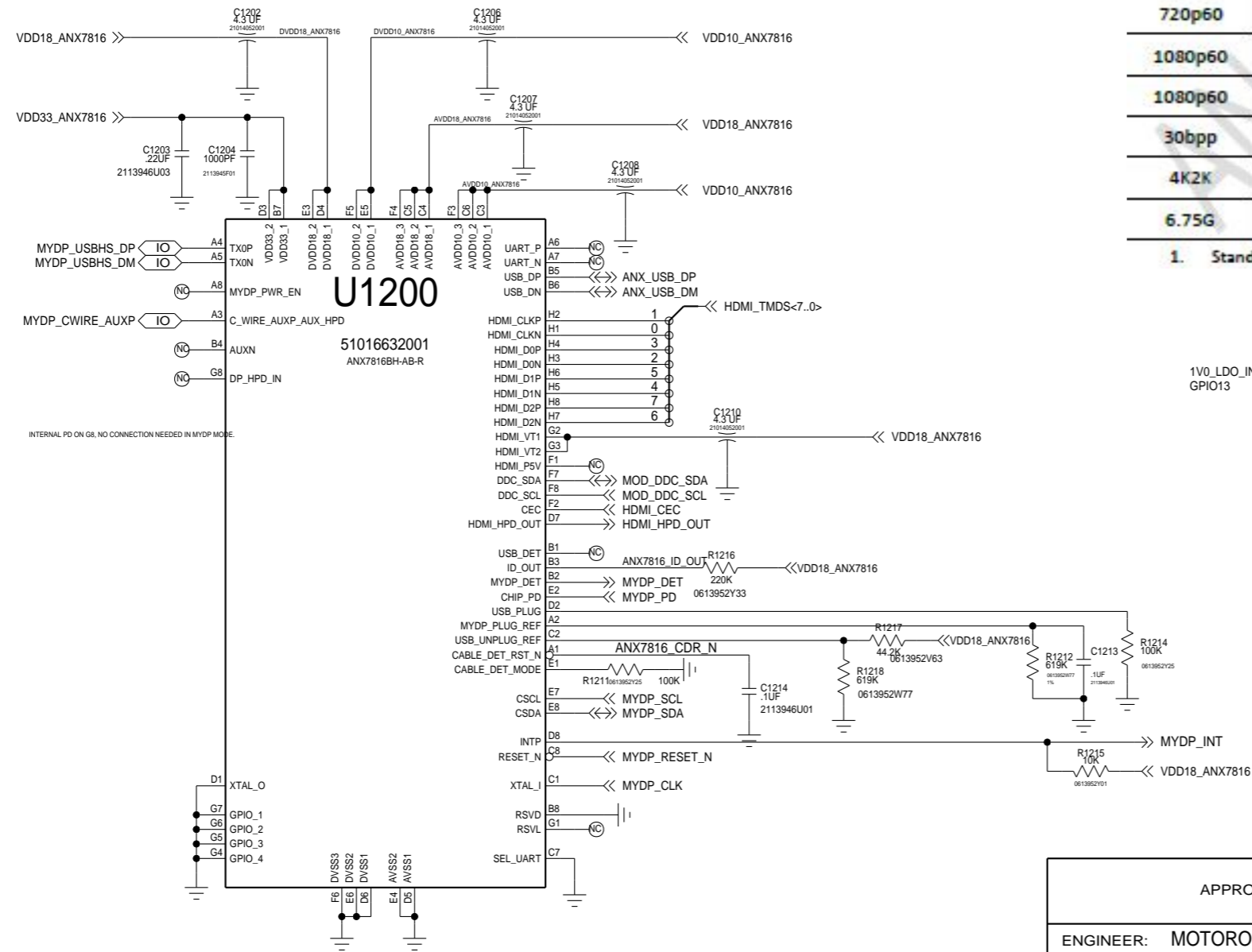
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ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:03 2017		ap_pmic	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 41 OF 91	

MSM8998: HDMI->MYDP TO MODS

REFDES: 1200-1219

ANX7816 I2C MAP

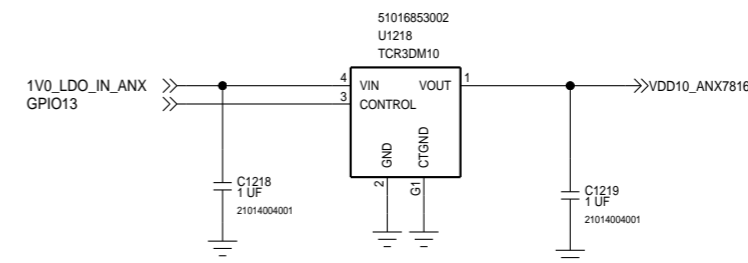
7-BIT BASE	WRITE	READ
0X38	0X70	0X71
0X39	0X72	0X73
0X3D	0X7A	0X7B
0X3F	0X7E	0X7F
0X40	0X80	0X81



MOD_DDC_SCL <-> HDMI_DDC_SCL
 MOD_DDC_SDA <-> HDMI_DDC_SDA
 ADD SYNONYMS HERE IF FSA2268 HDMI MUX NOT USED

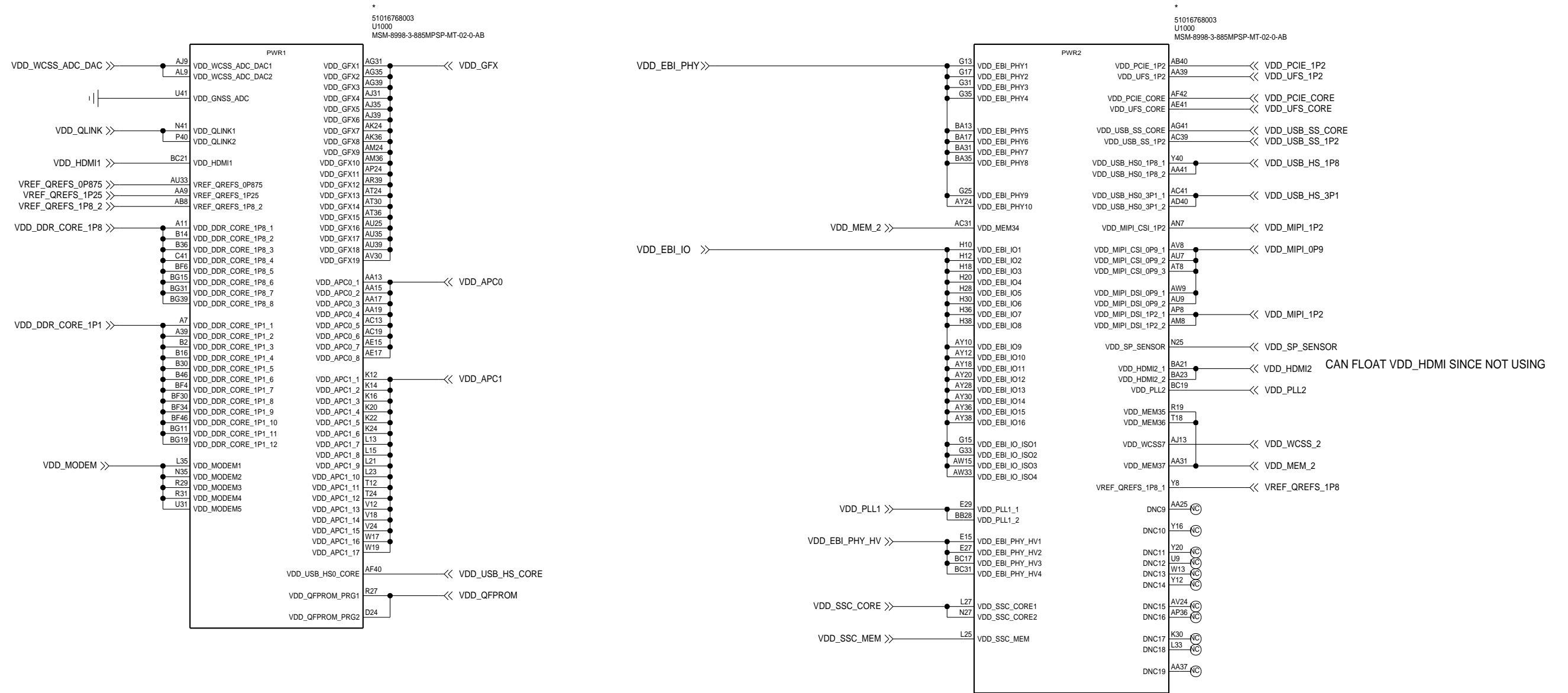
Resolution	Pixel Clock Freq. (MHz)	Power Consumption					Power (mWatts)
		Typical Values					
		AVDD33_IN (mAmps)	AVDD18 (mAmps)	DVDD18 (mAmps)	AVDD10 (mAmps)	DVDD10 (mAmps)	
Standby	N/A	10.63 ¹	0.9 ¹	0.3 ¹	0	0	42 ¹
480p60	27	2.5	40	0	25	15	125
720p60	74.25	2.5	45	0	30	20	145
1080p60	148.5	2.5	50	0	35	30	165
1080p60 30bpp	185.6	2.5	50	0	40	35	175
4K2K	297	2.5	55	0	45	40	200
6.75G							

1. Standby power consumption values are μ Amps (μ A) and μ Watts (μ W).



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA	BLOCK TITLE:		
LAST MODIFIED BY: MOTOROLA	ap_pmic		
Fri Mar 31 09:16:08 2017			
MOTOROLA CONFIDENTIAL RESTRICTED	PROJECT NAME	REV	
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CAD FILE NAME:		PAGE 42 OF 91	

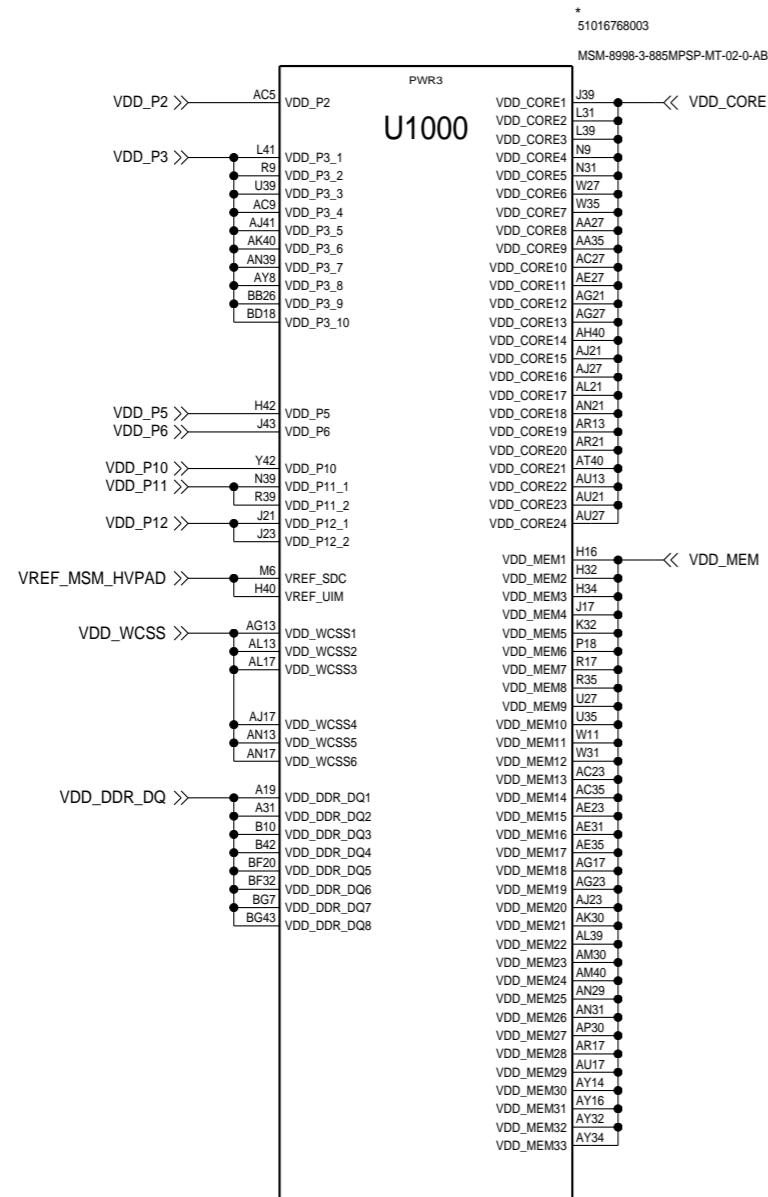
MSM8998: POWER 1




MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 43 OF 91	

MSM8998: POWER 2

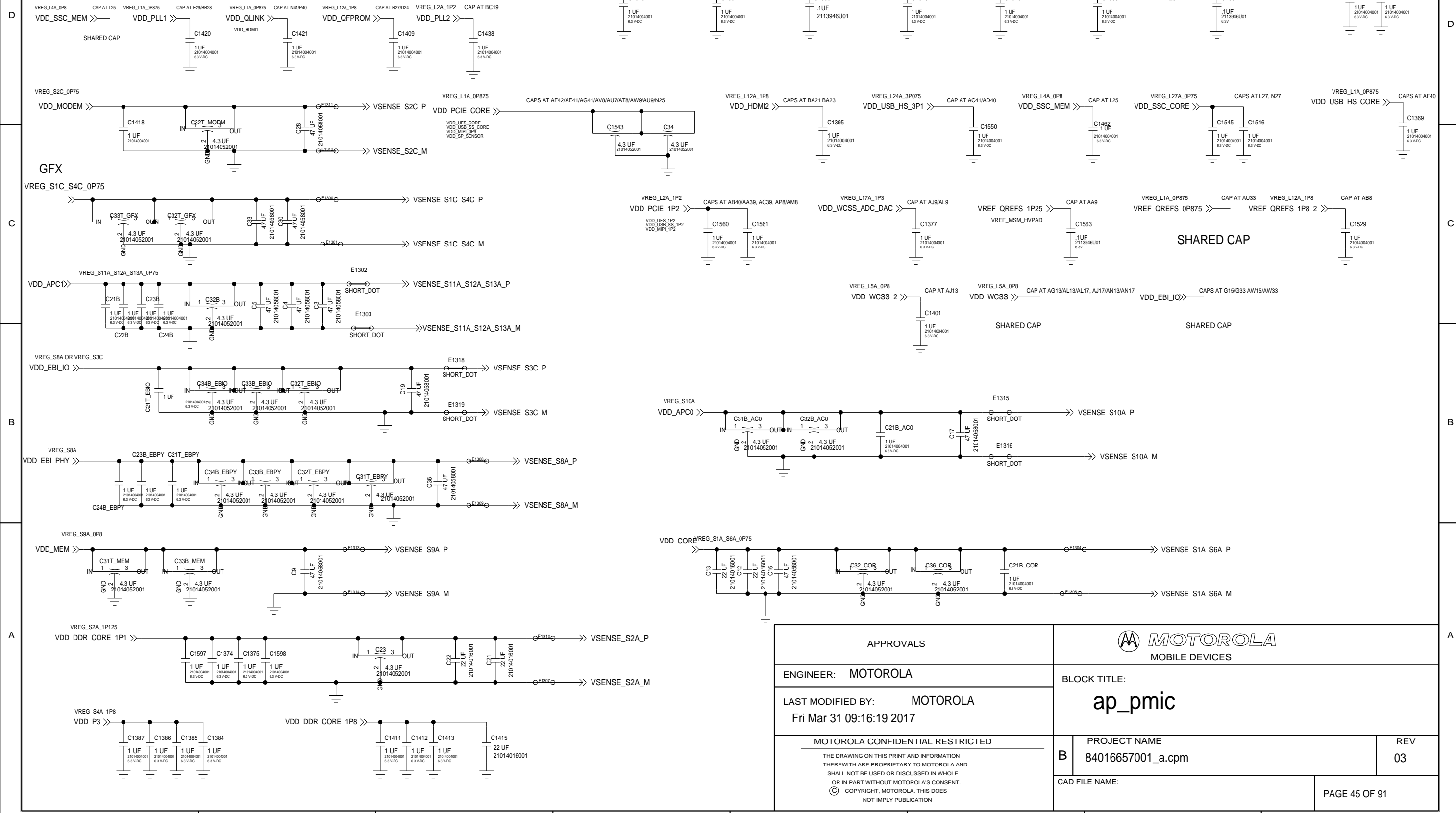


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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		CAD FILE NAME:	PAGE 44 OF 91

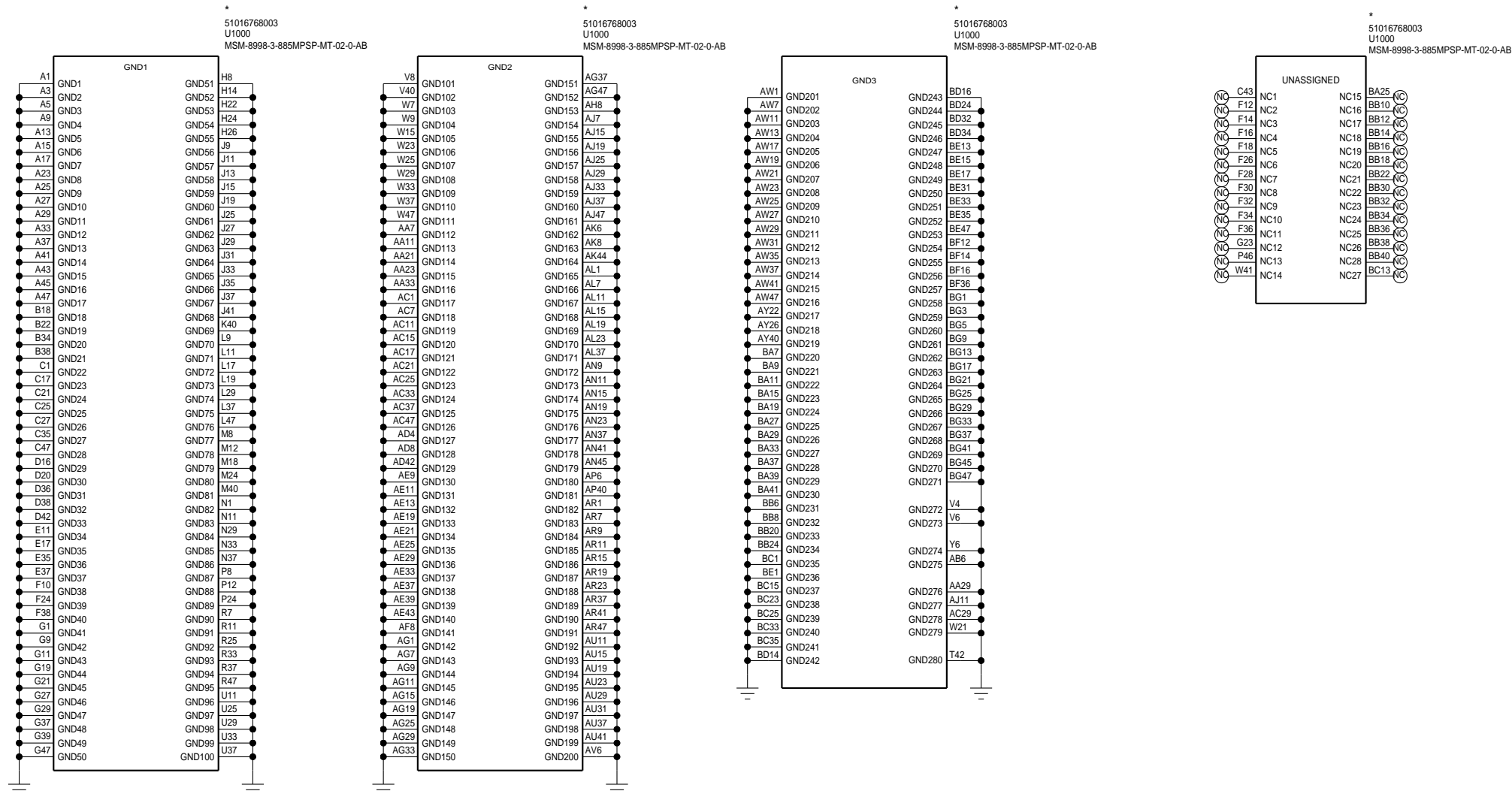
MSM8998: BYPASS CAPS COSTCUT

REFDES: 1300-1599



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:19 2017		ap_pmic	
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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CAD FILE NAME:		PAGE 45 OF 91	

MSM8998: GND/NC

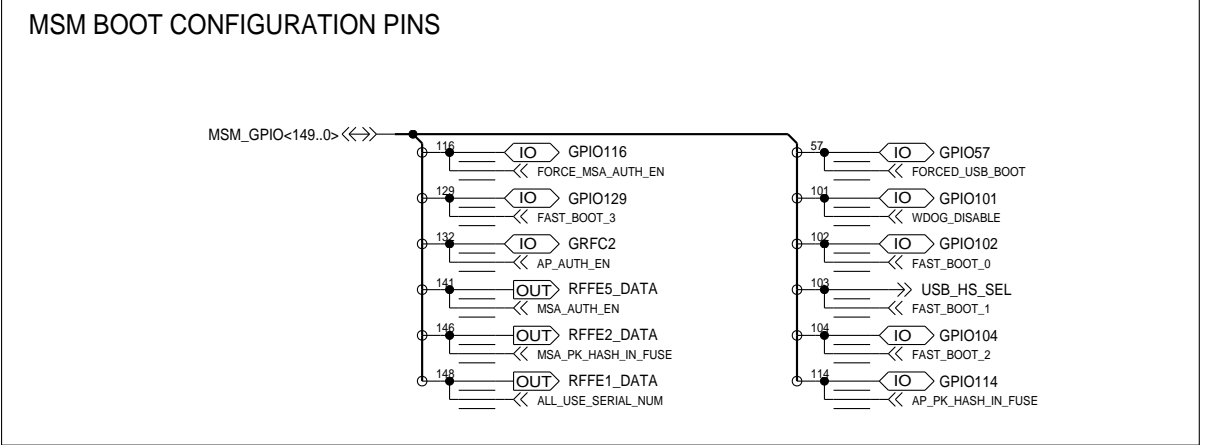
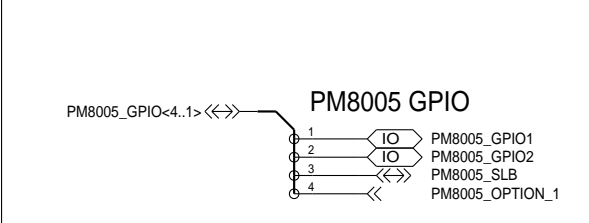
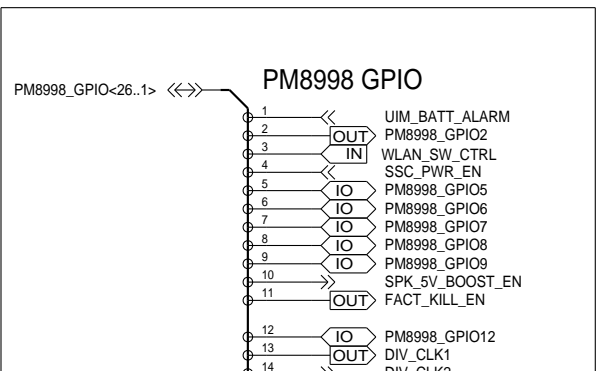
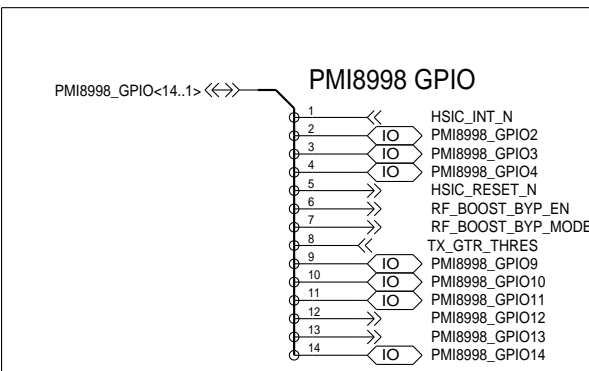
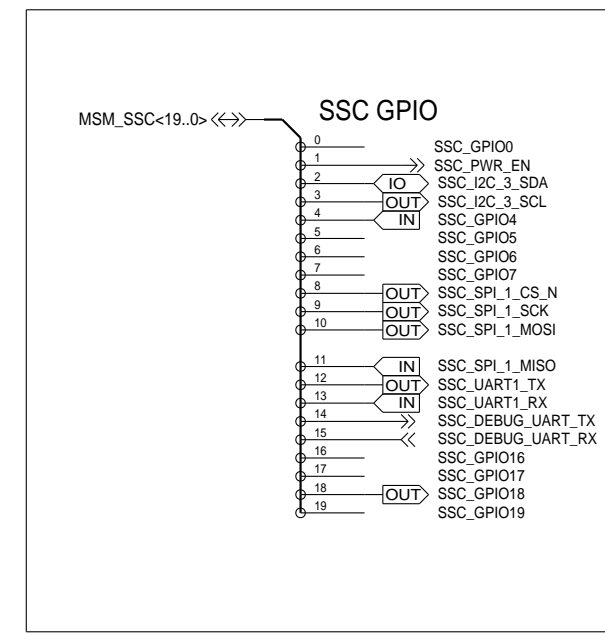
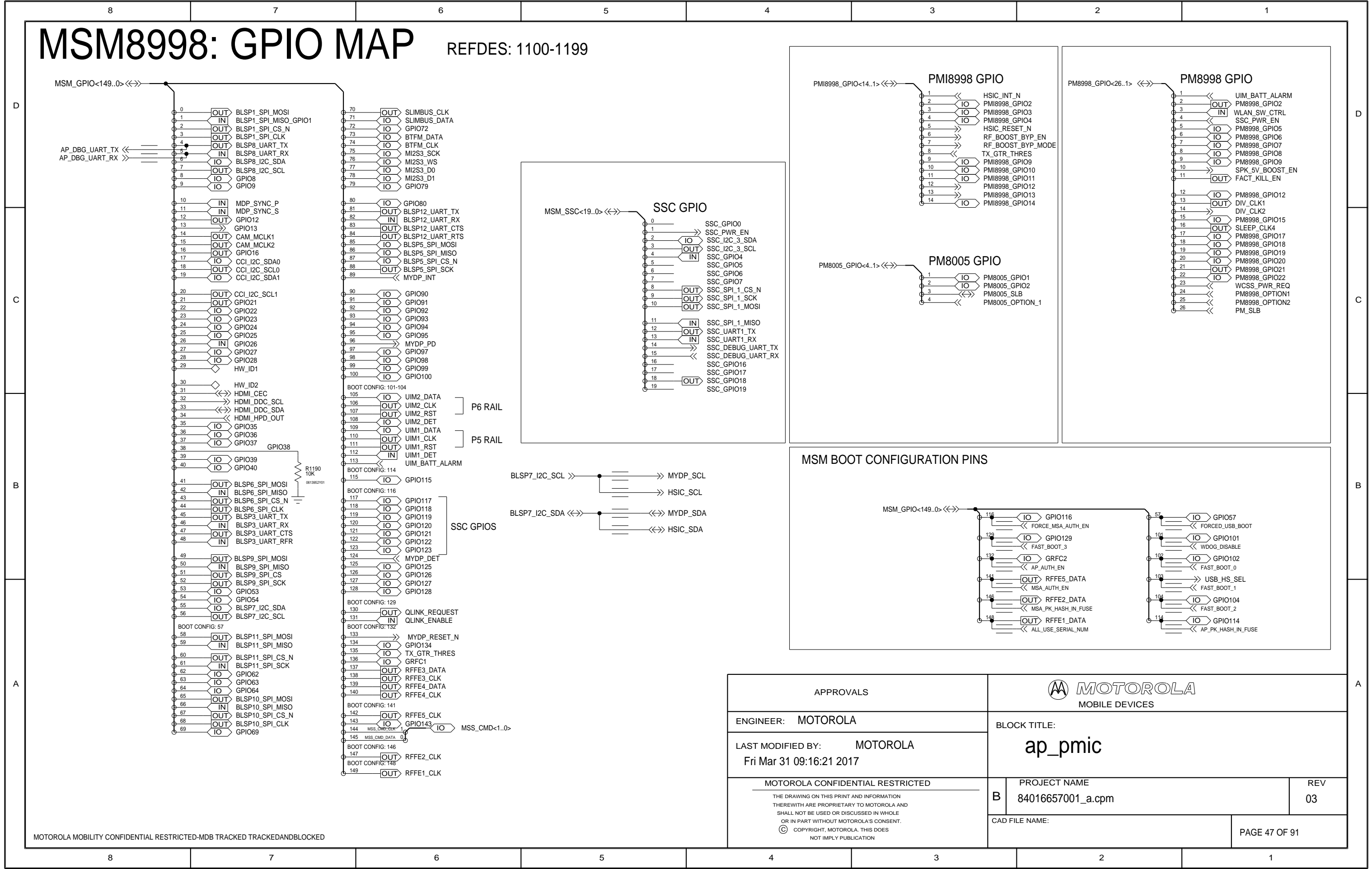


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
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		CAD FILE NAME:	
		PAGE 46 OF 91	

MSM8998: GPIO MAP

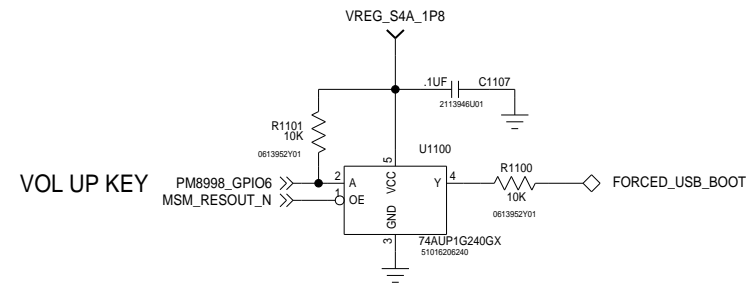
REFDES: 1100-1199



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: ap_pmic	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:21 2017		PROJECT NAME B 84016657001_a.cpm	
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		PAGE 47 OF 91	

MSM8998: SUPPORT

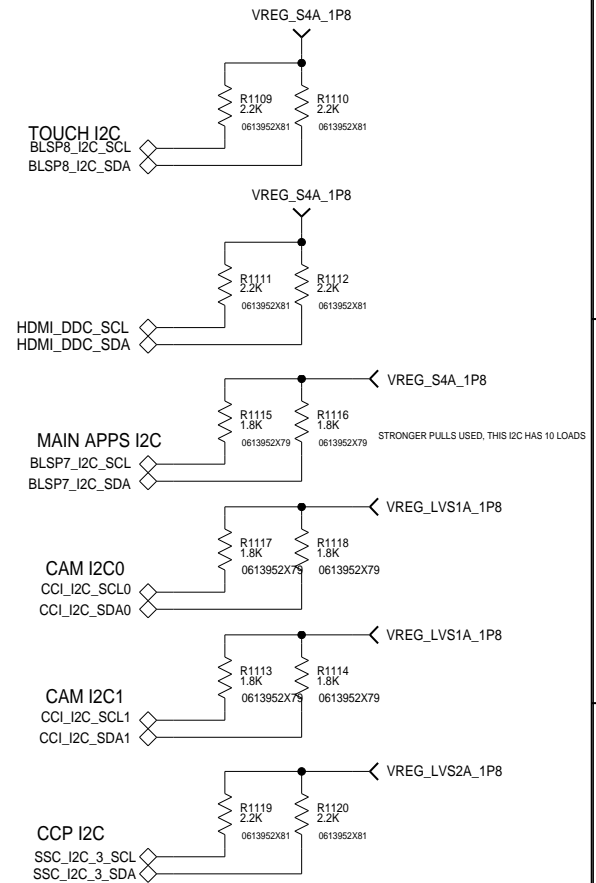
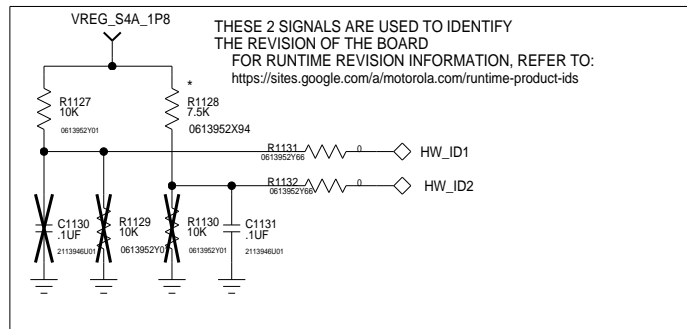
REFDES: 1100-1199



8998 BOOT OPTIONS

FET MOVED TO NSM/HEADER PAGE
NOT NEED FOR PORTABLE

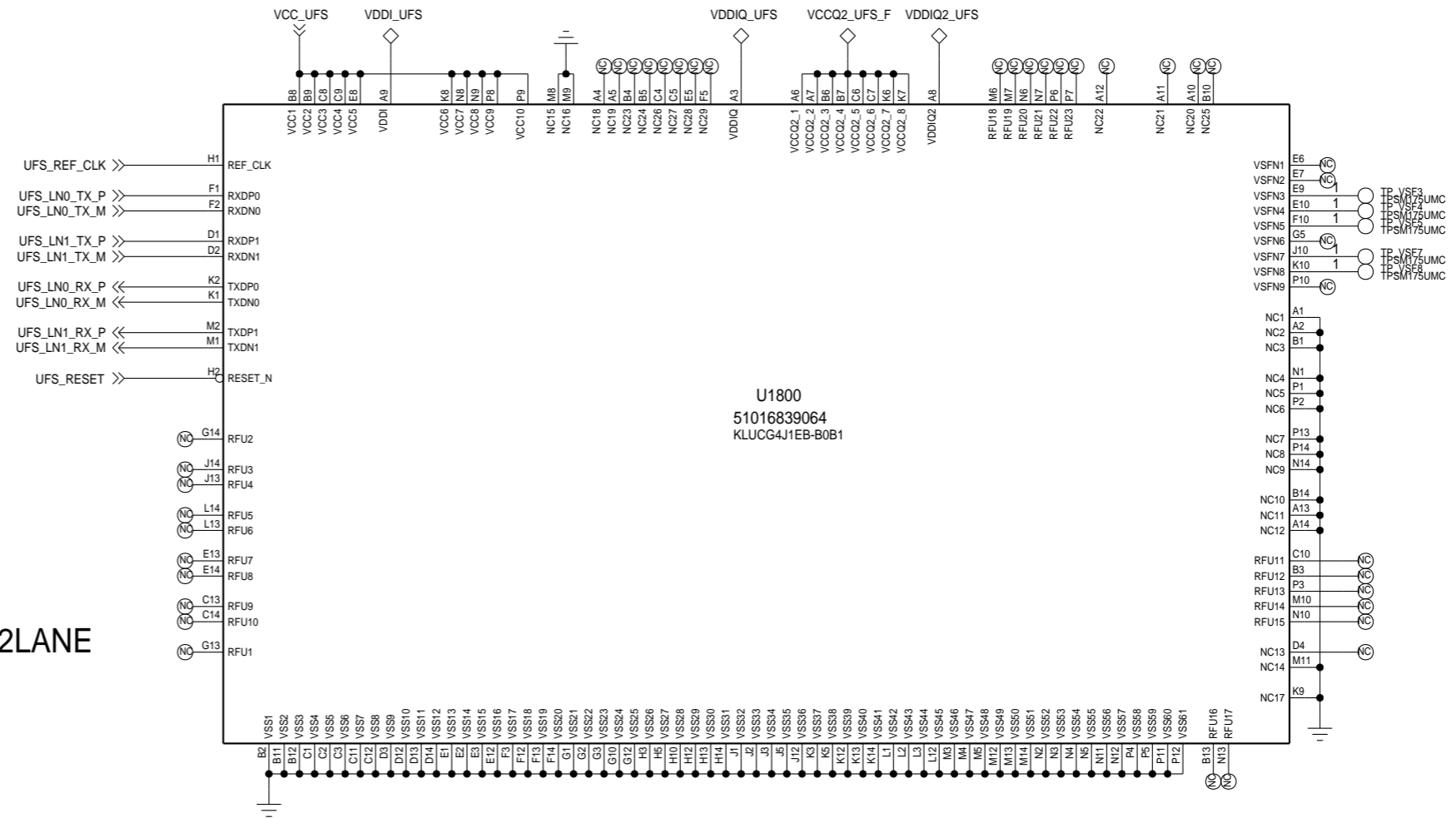
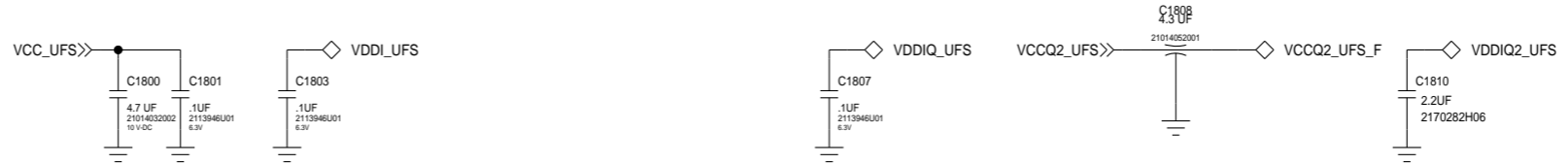
BOOT_CONFIG[4:1]	BOOT OPTION
0000	UFS > SDC2 > USB
0001	SDC2 > UFS
0010	SDC2
0011	USB



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:03 2017		ap_pmic	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 48 OF 91	

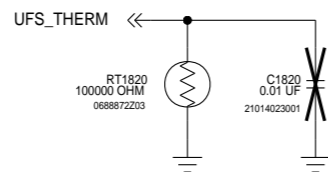
MSM8998: UFS

REFDES: 1600-1699



NOTE: MUST USE UFS HS-GEAR3 WITH 2LANE

64GB = 51016839064
128GB = 51016839128



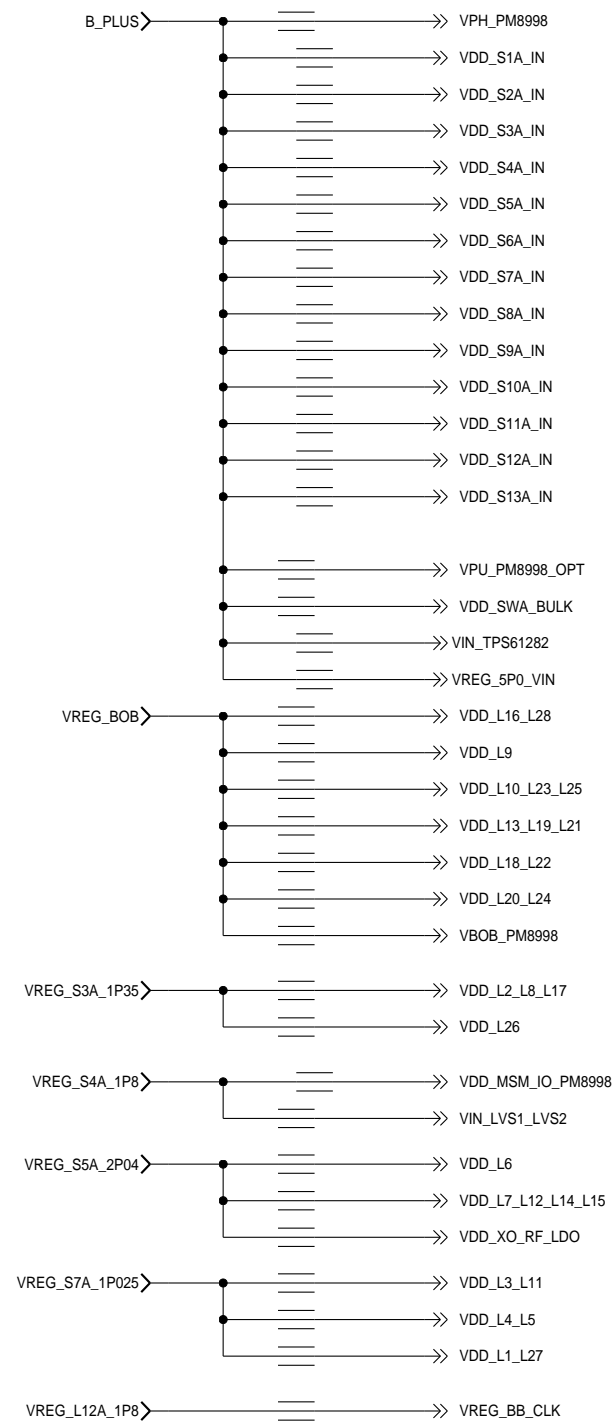
MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:09 2017		ap_pmic	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 49 OF 91	

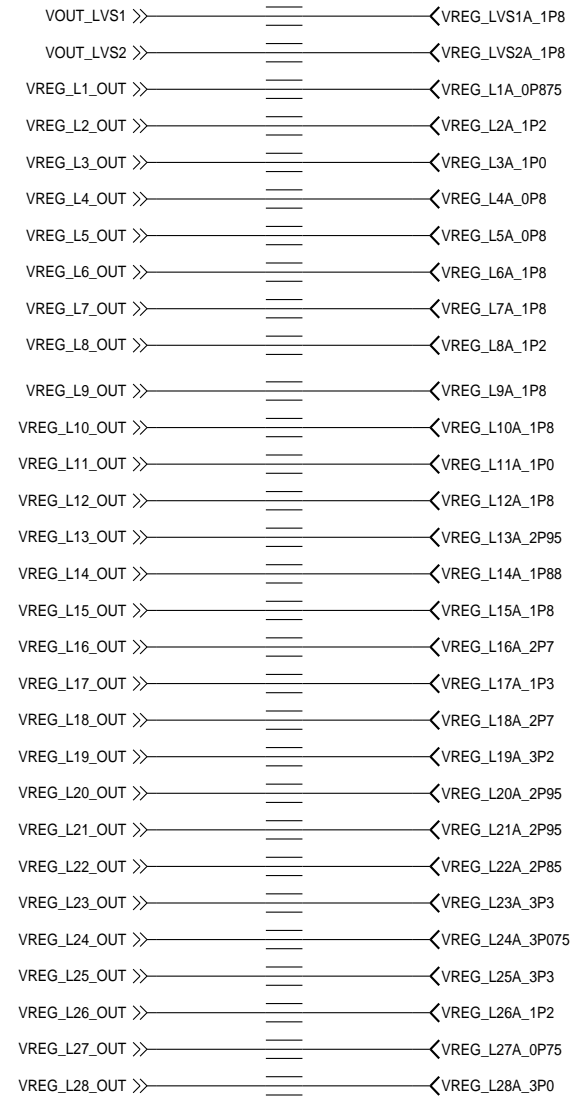
PM8998: POWER

REFDES: 2300-2399

INPUT POWER



OUTPUT POWER

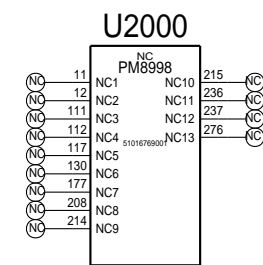
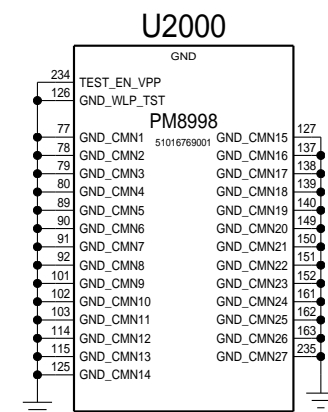
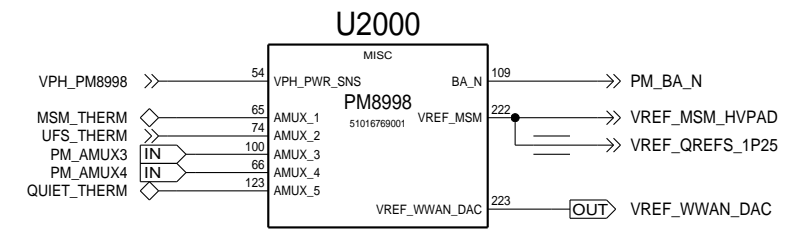
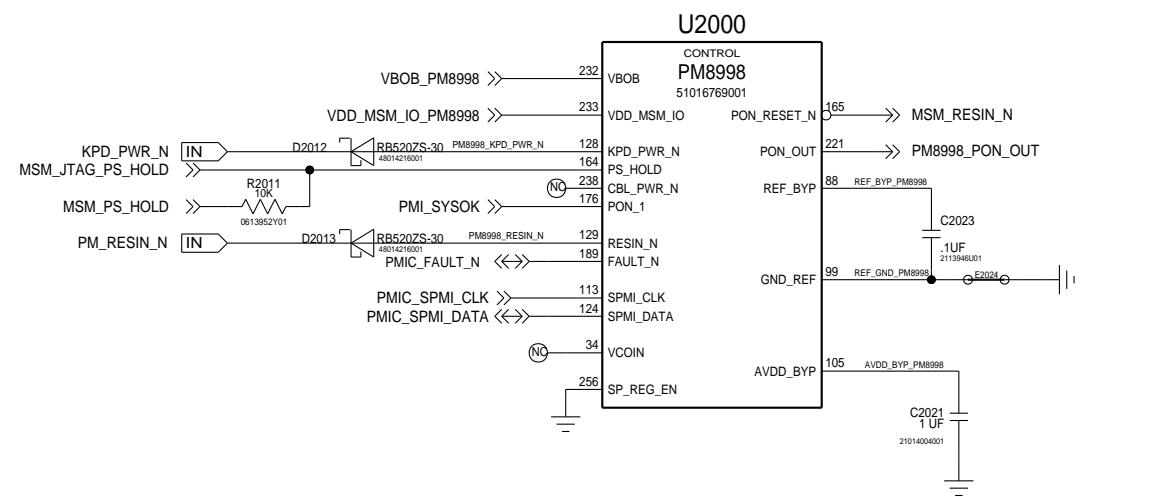
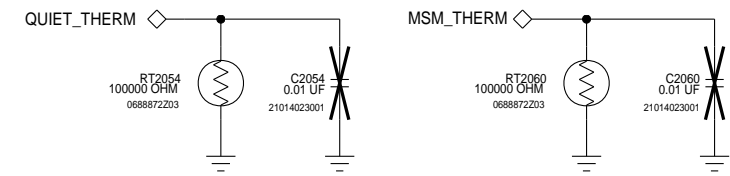
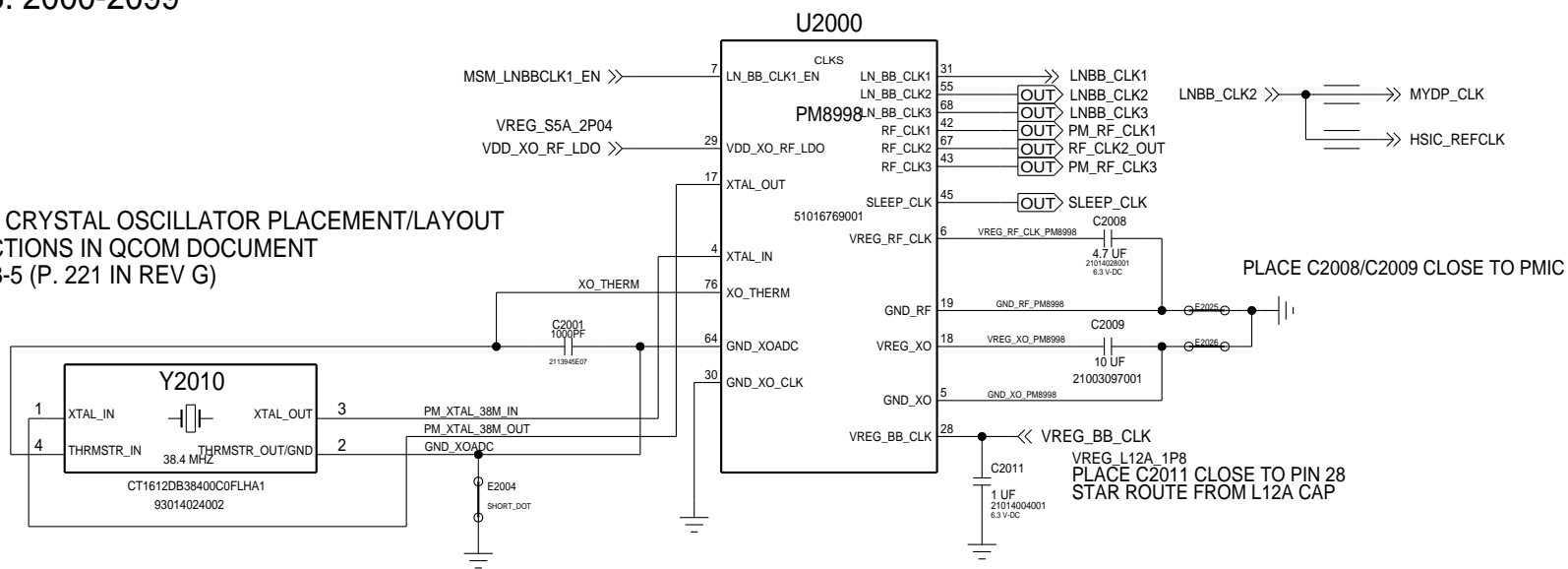


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
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		PAGE 50 OF 91	

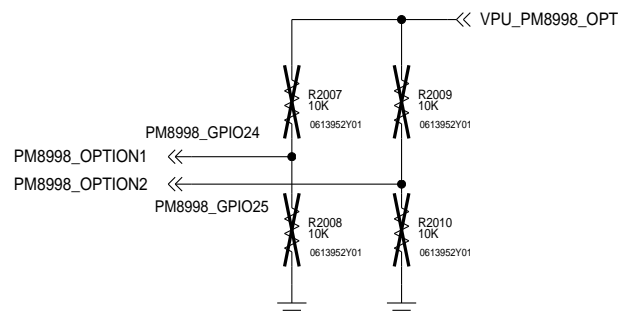
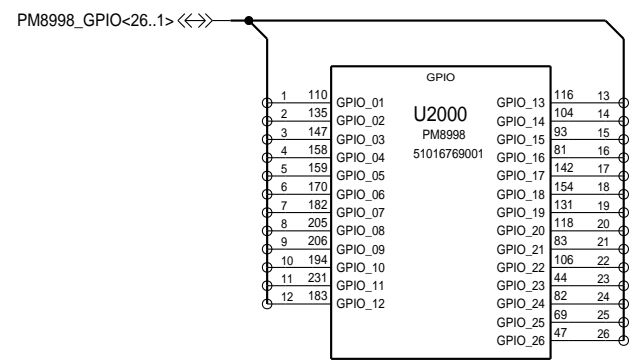
PM8998: CLK/CTRL/GPIO

REFDES: 2000-2099

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



PM GPIOs DEFINED ON MSM GPIO PAGE

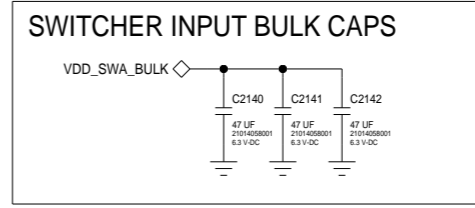
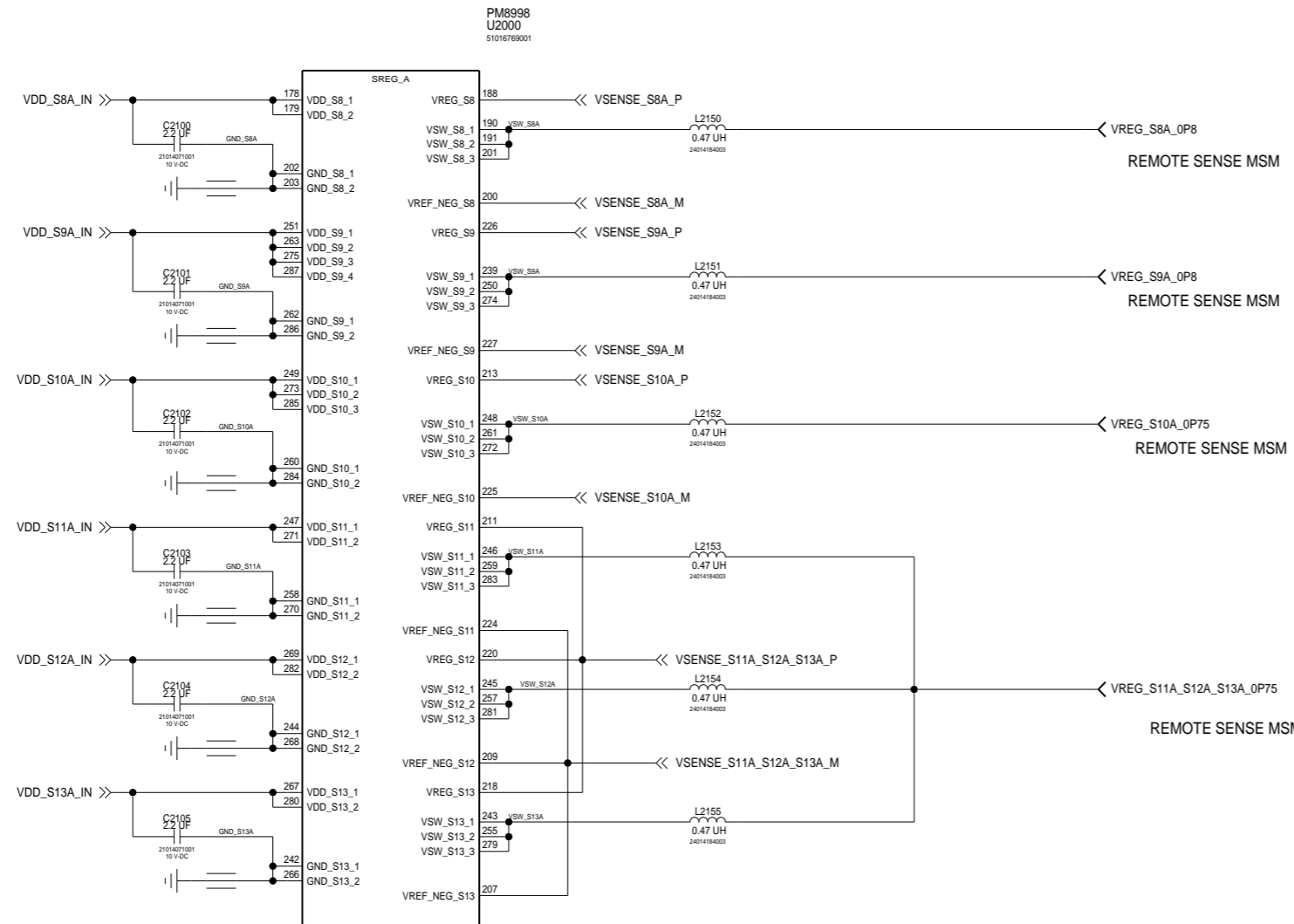


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APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:11 2017		PROJECT NAME B 84016657001_a.cpm	
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PM8998: SMPS 1

REFDES: 2100-2199

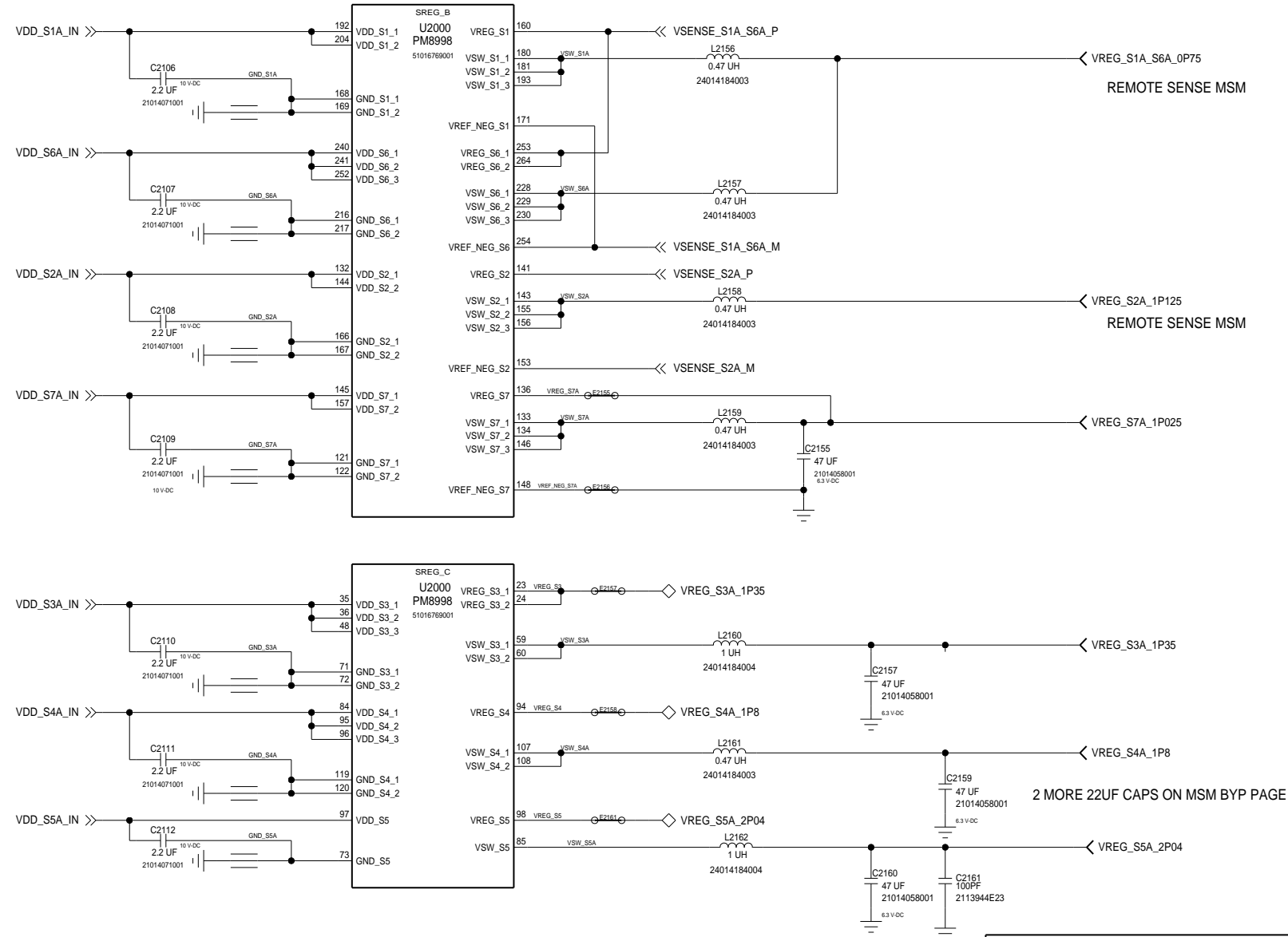


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APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:13 2017		ap_pmic	
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		CAD FILE NAME:	
		PAGE 52 OF 91	

PM8998: SMPS 2

REFDES: 2100-2199

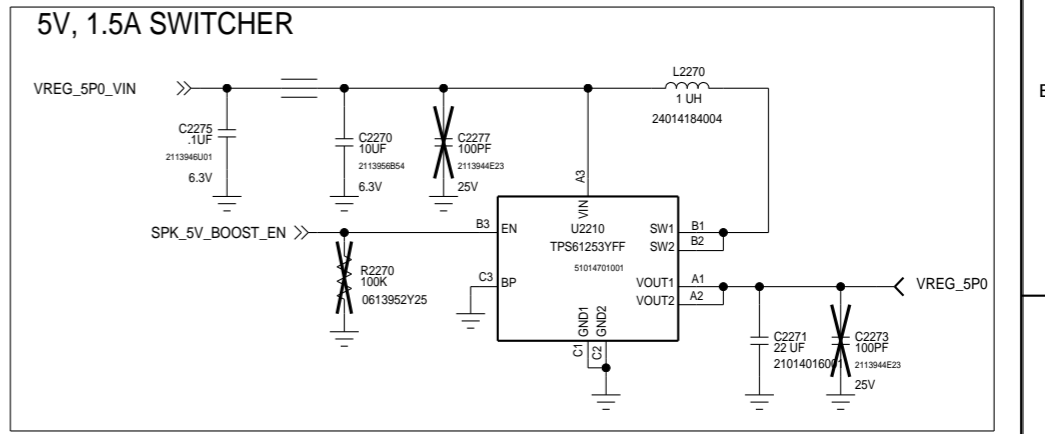
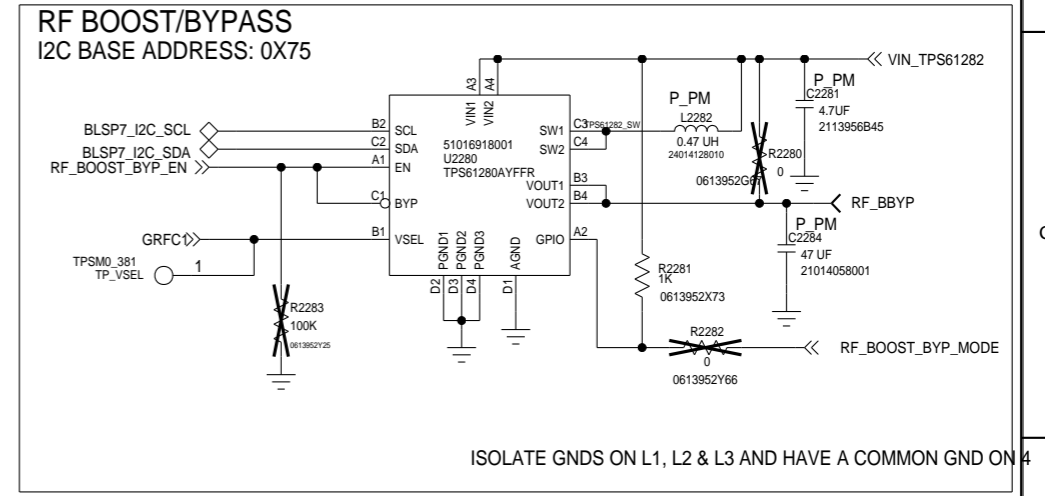
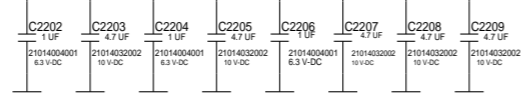
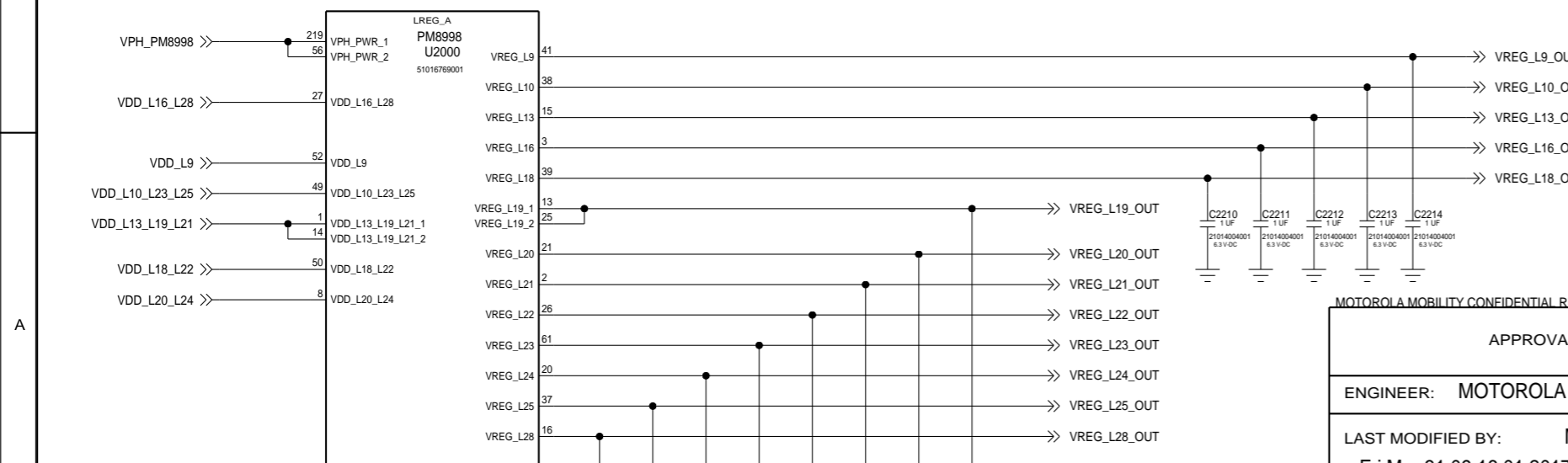
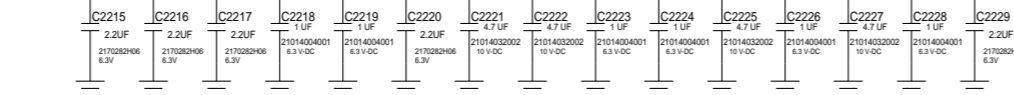
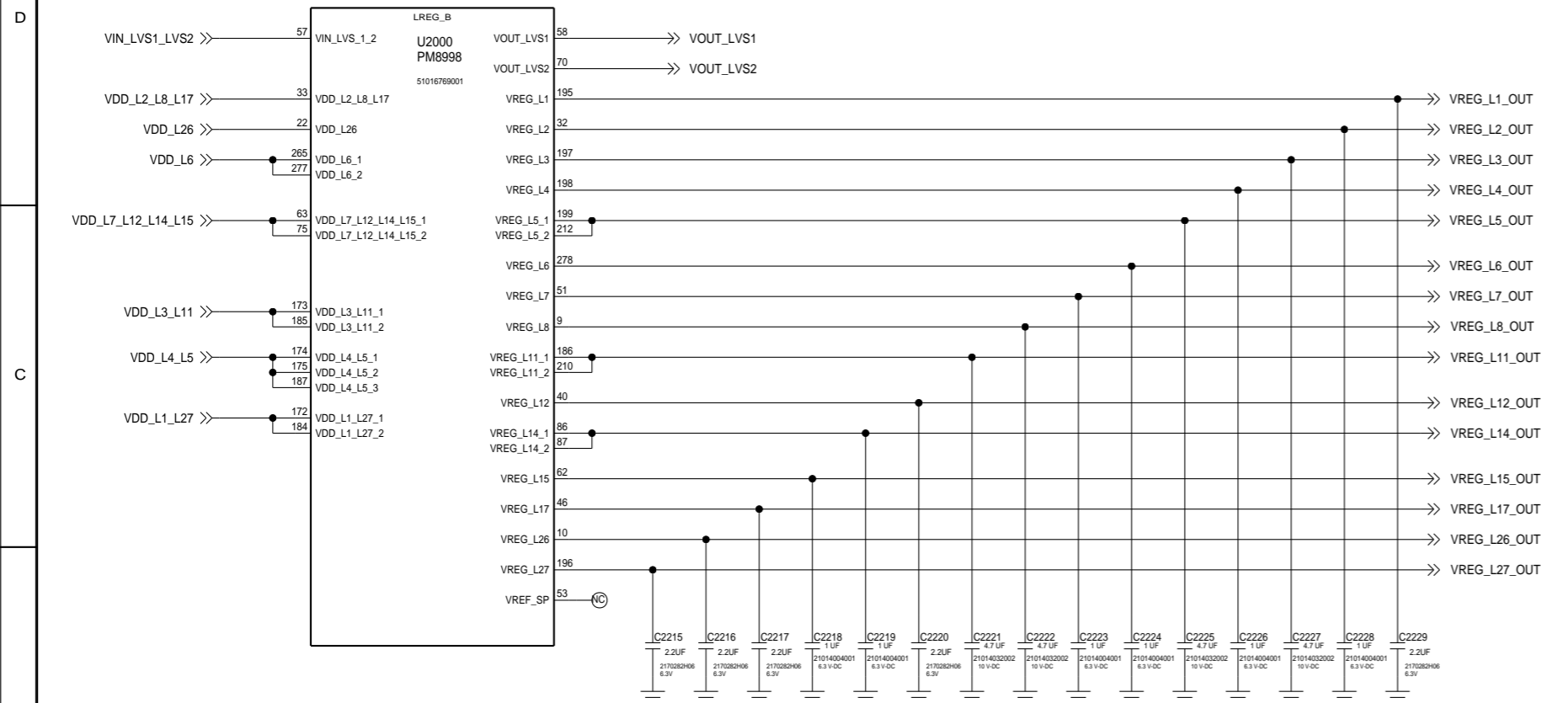


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ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:10 2017		ap_pmic	
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		CAD FILE NAME:	
		PAGE 53 OF 91	

PM8998: VREGS

REFDES: 2200-2299



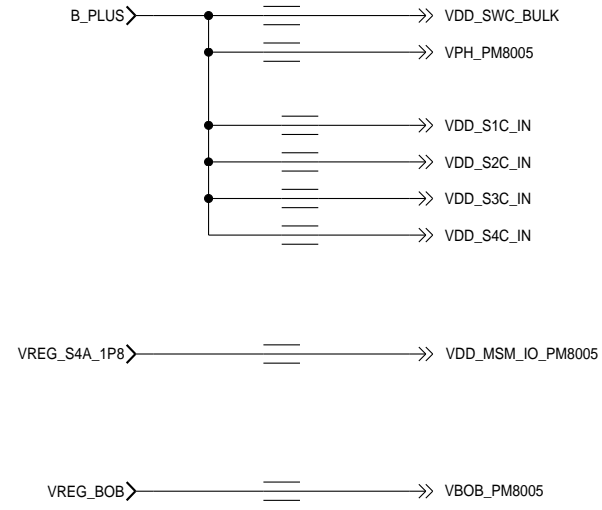
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APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
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CAD FILE NAME:		PAGE 54 OF 91	

PM8005: POWER

REFDES: 2400-2499

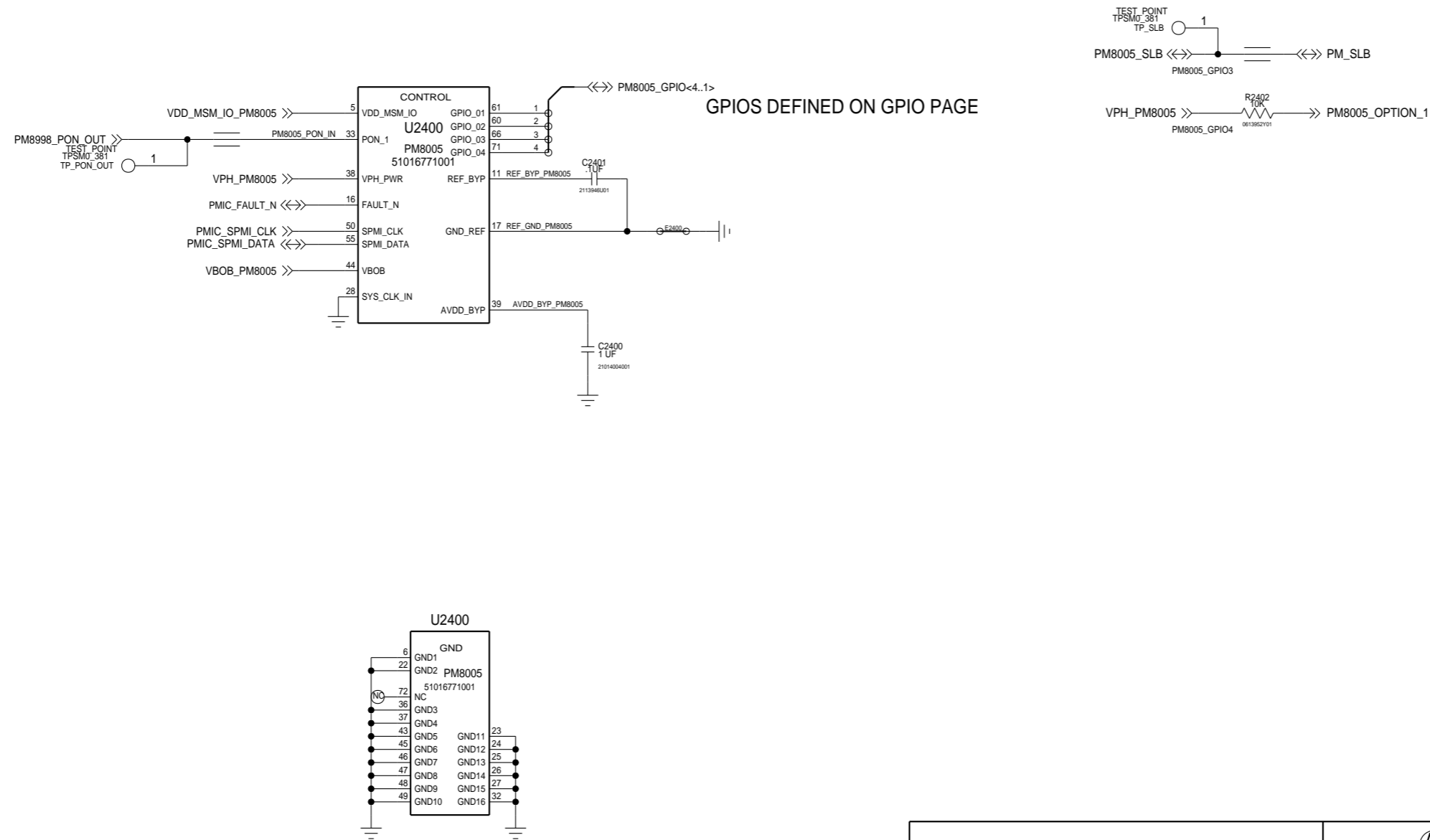
INPUT POWER



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:12:40 2017		ap_pmic	
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CAD FILE NAME:			PAGE 55 OF 91

PM8005: CONTROL

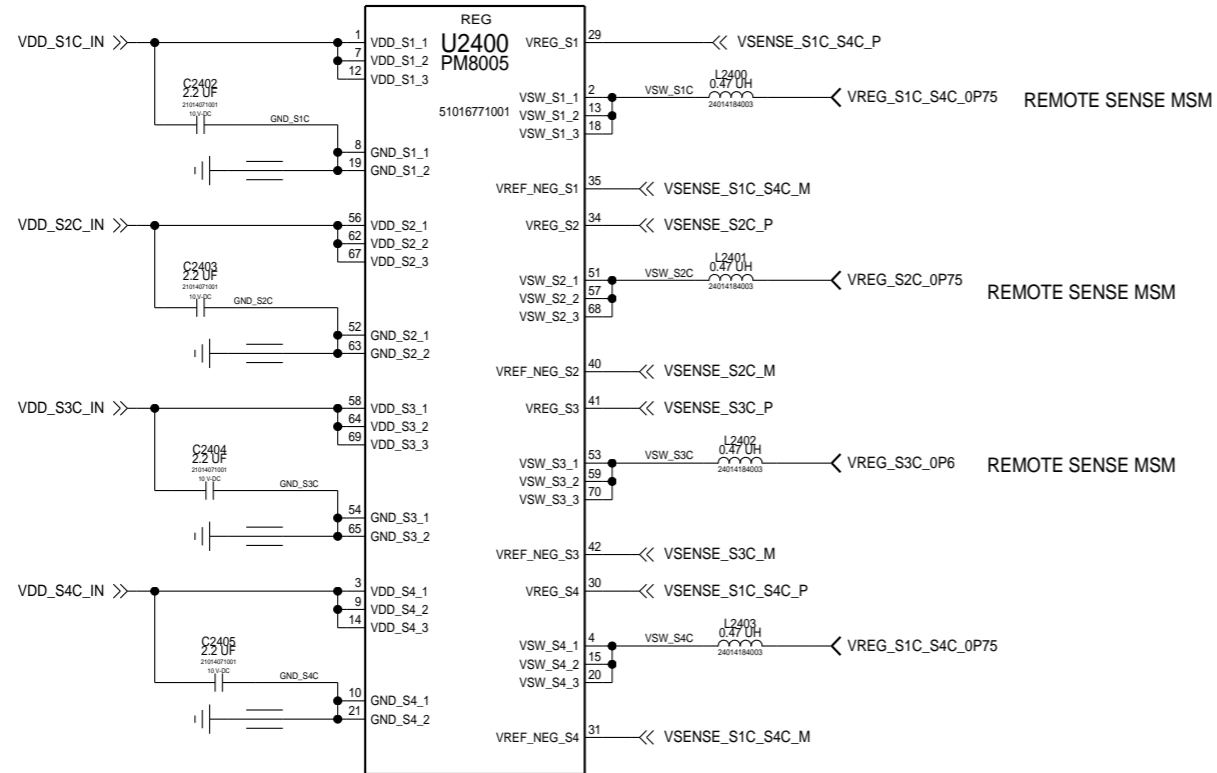
REFDES: 2400-2499



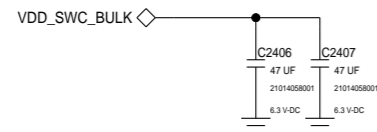
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ENGINEER: MOTOROLA		BLOCK TITLE: ap_pmic	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 56 OF 91	

PM8005: SMPS

REFDES: 2400-2499



SWITCHER INPUT BULK CAPS

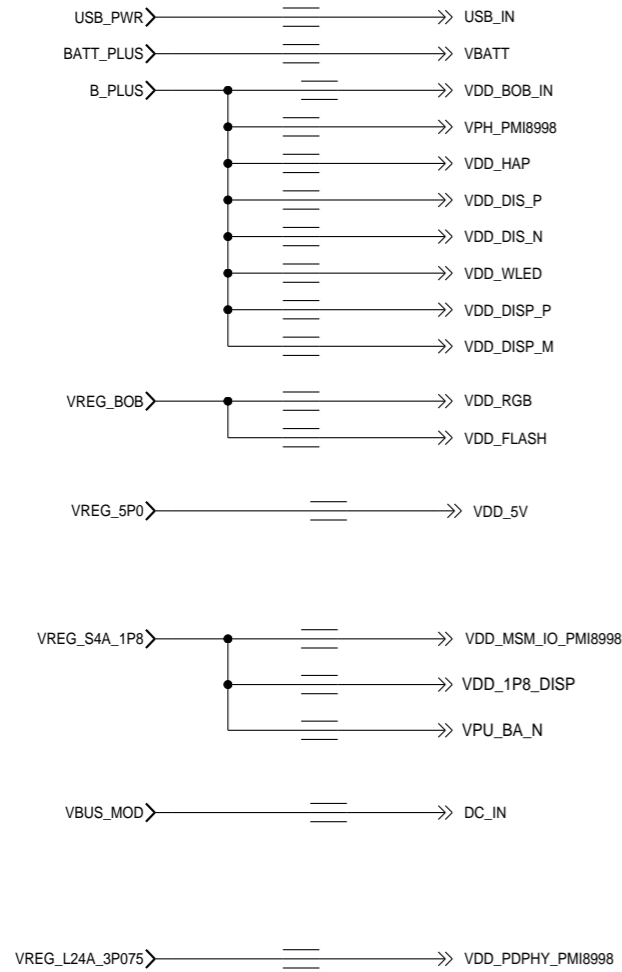


APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:17 2017		ap_pmic	
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CAD FILE NAME:		PAGE 57 OF 91	

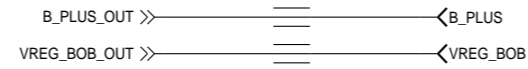
PMI8998: POWER

REFDES: 2400-2499

INPUT POWER



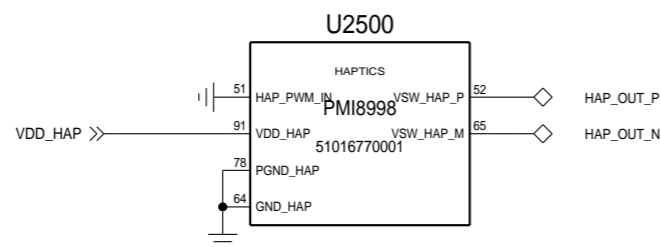
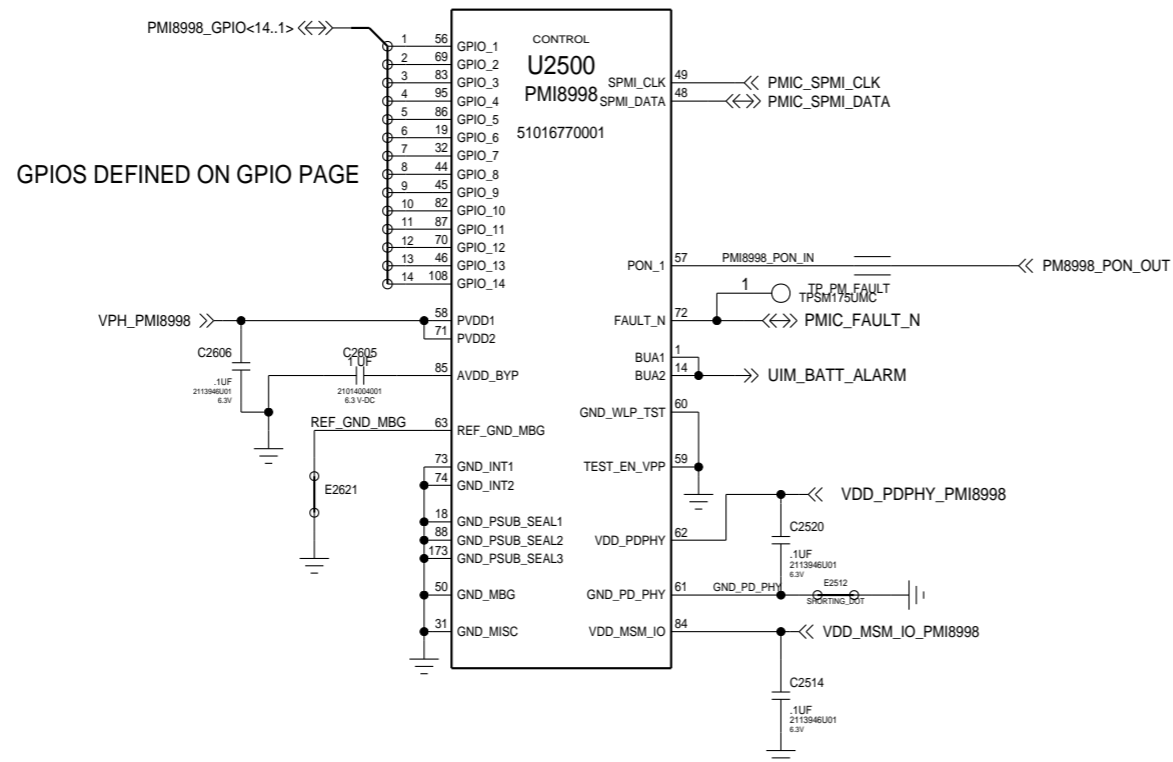
OUTPUT POWER



APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:12:42 2017		ap_pmic	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 58 OF 91	

PMI8998: CTRL/GPIO/HAP

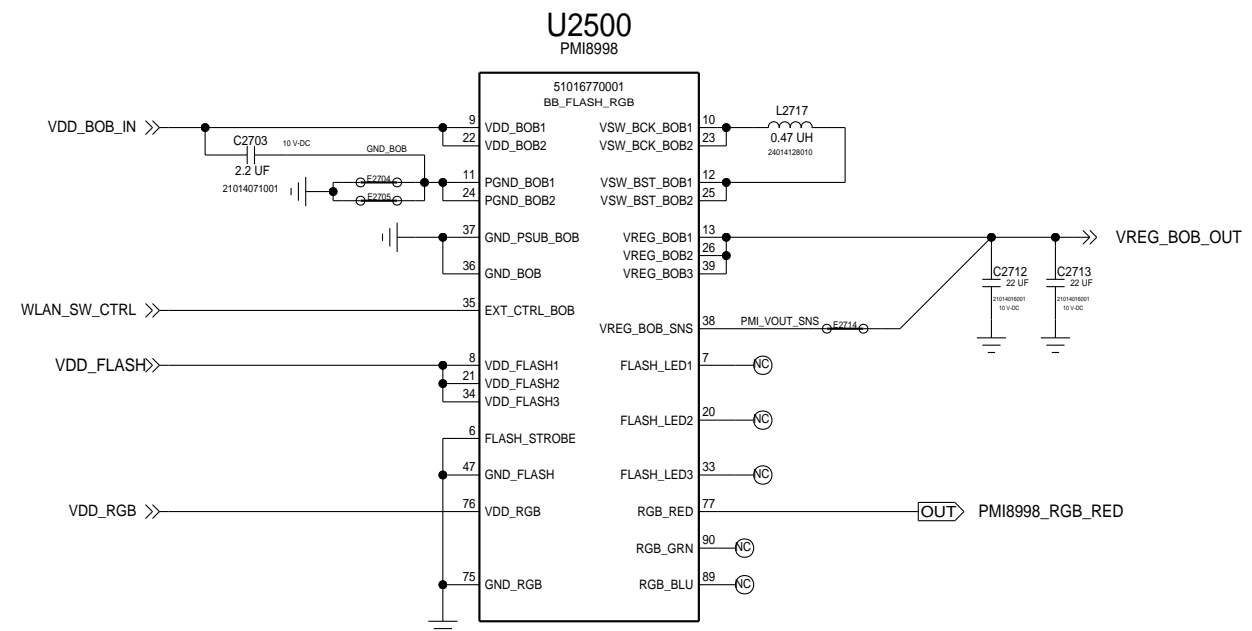
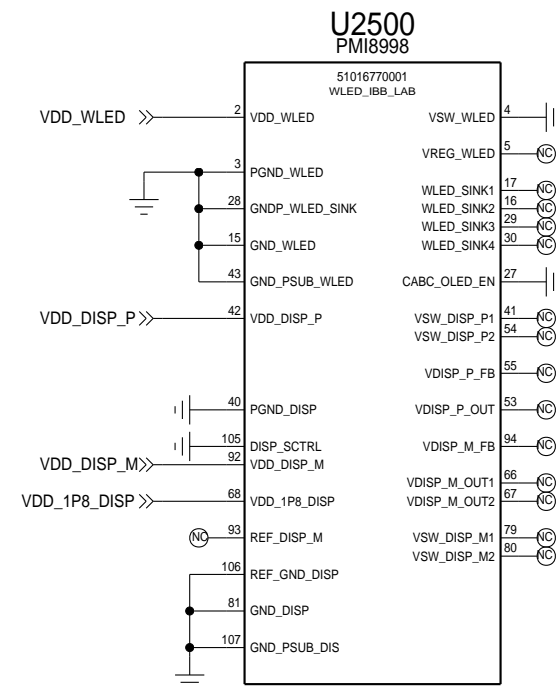
REFDES: 2600-2699



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:05 2017		ap_pmic	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 60 OF 91	

PMI8998: REF/WLED/RBG/BB

REFDES: 2700-2799



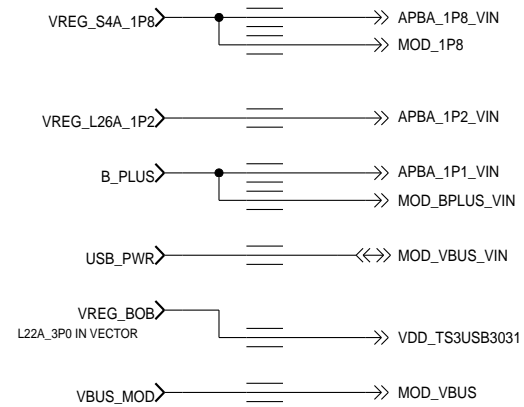
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:06 2017		ap_pmic	
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 61 OF 91	

MODS: PORTS

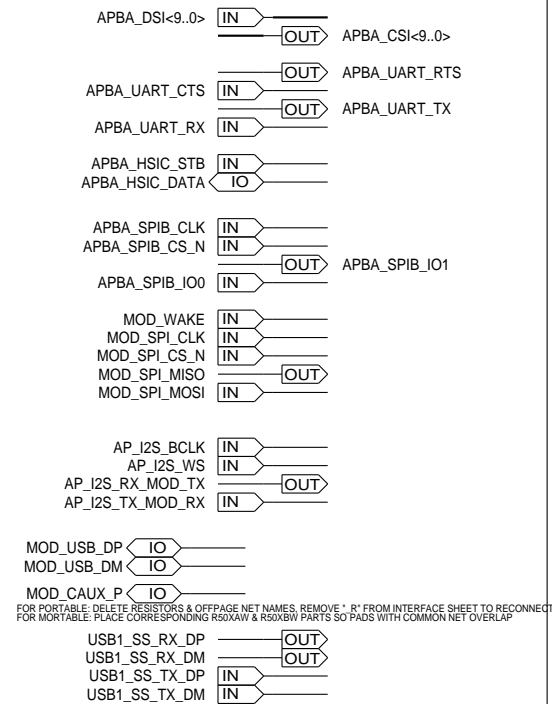
REF: 700-799

ALL CONNECTIONS EQUIVALENT TO VECTOR P10 EXCEPT VDD_HD3SS360

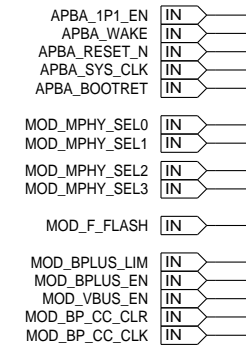
SUPPLIES



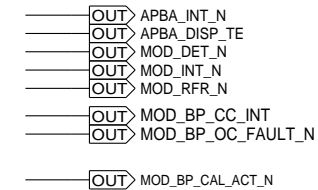
INTERFACES



GPIO - INPUT



GPIO - OUTPUT

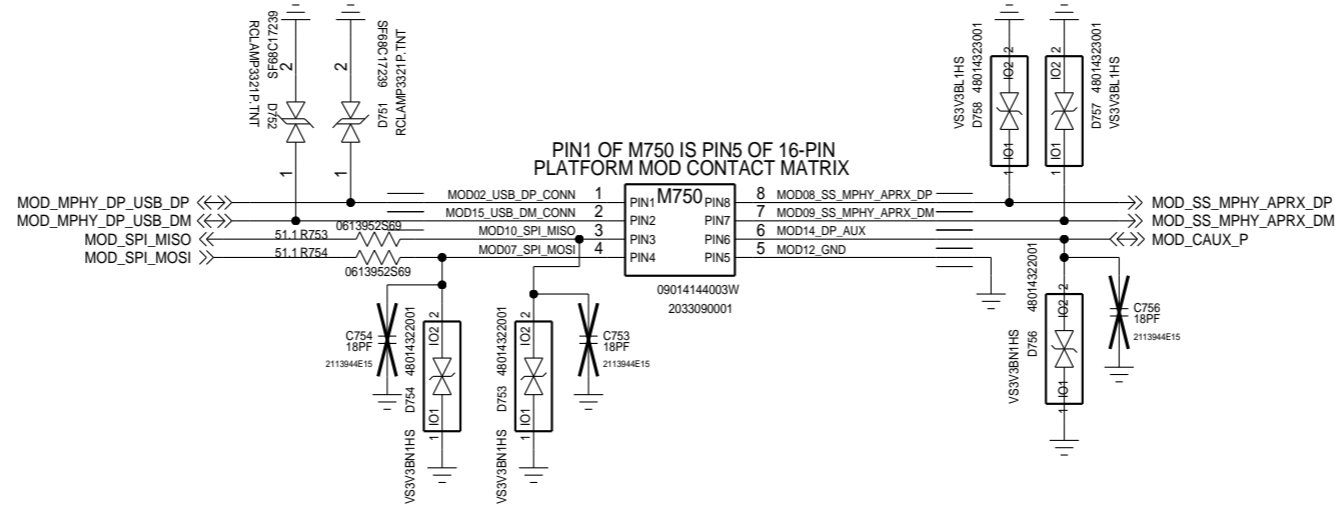
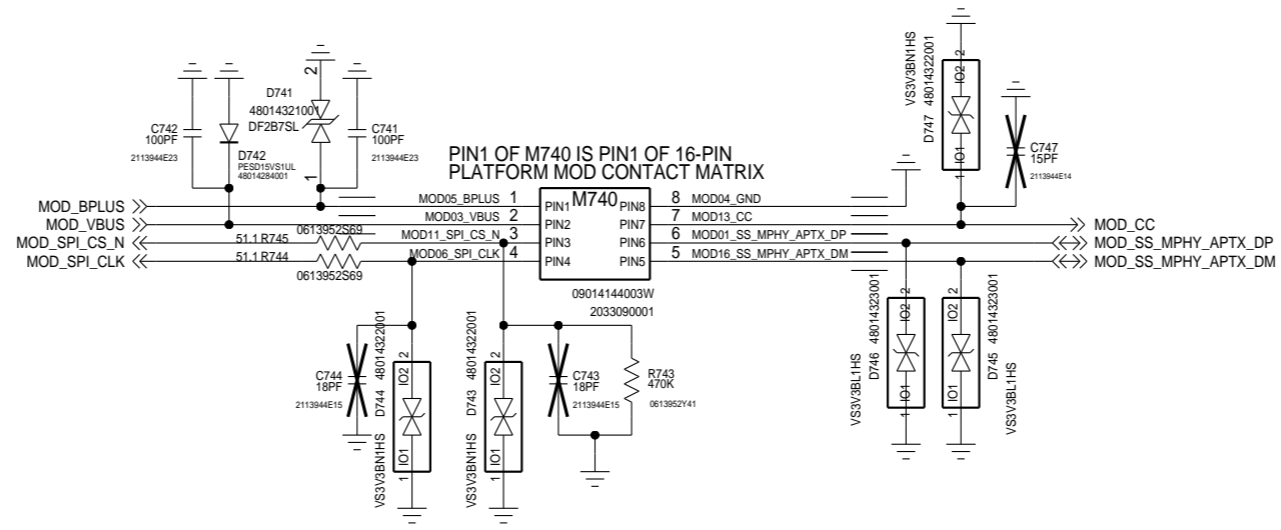


FOR PORTABLE: DELETE RESISTORS & OFFPAGE NET NAMES. REMOVE "R" FROM INTERFACE SHEET TO RECONNECT FOR PORTABLE. PLACE CORRESPONDING RESORAW & RESORBY PARTS SO PADS WITH COMMON NET OVERLAP

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: slice_if	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:12:22 2017			
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		CAD FILE NAME:	
		PAGE 62 OF 91	

MODS: CONTACTS

REF: 740-759



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

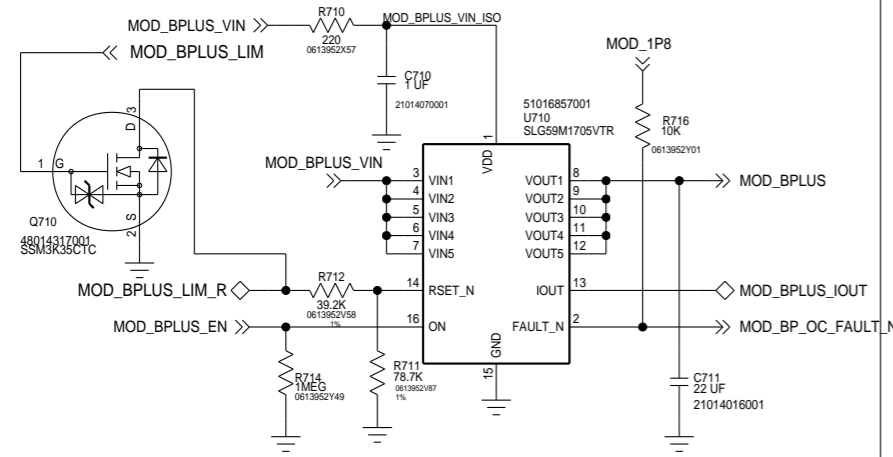
APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: slice_if	
LAST MODIFIED BY: MOTOROLA Sun Apr 09 17:05:22 2017			
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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 63 OF 91	

MODS: INTERFACE

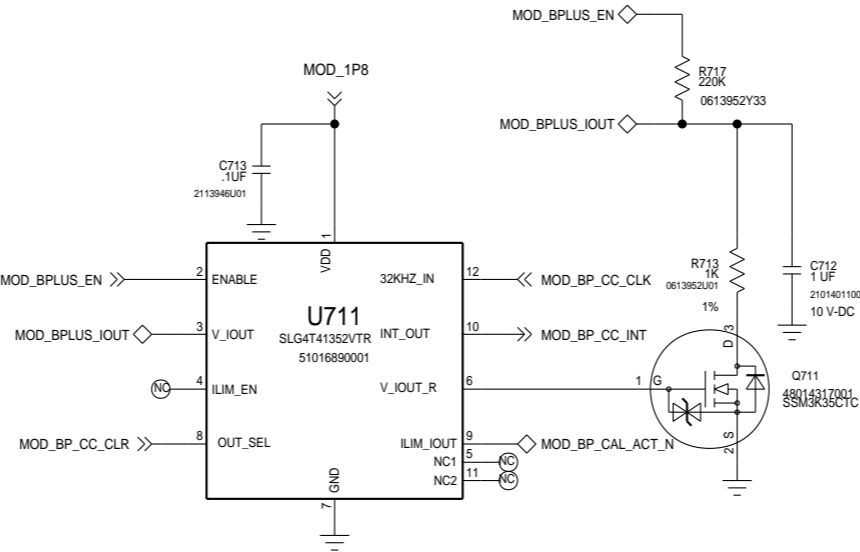
REF: 700-739

MODS BPLUS POWER SWITCH

REF: 710-719

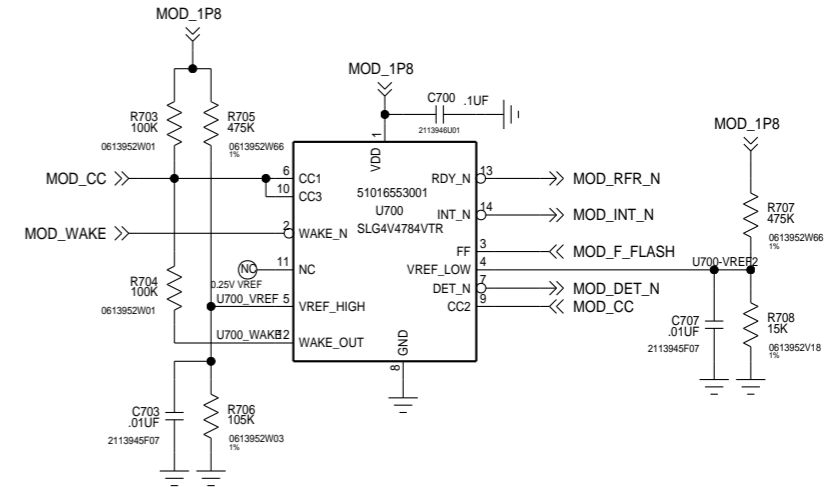


MODS BPLUS CURRENT MONITOR



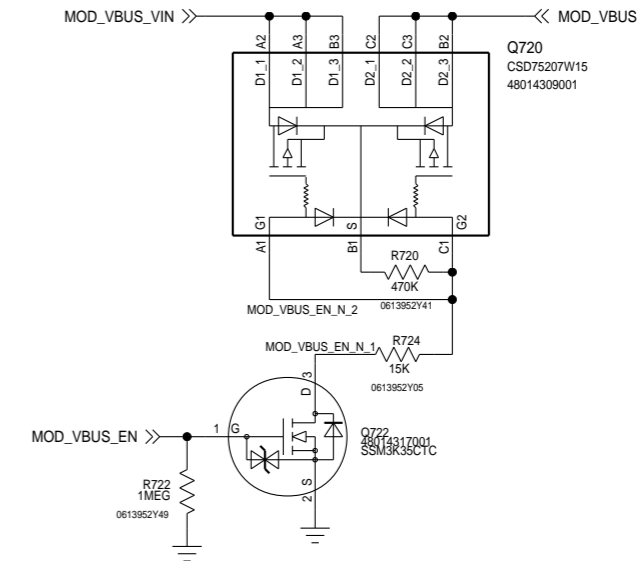
MODS DETECTION

REF: 700-709



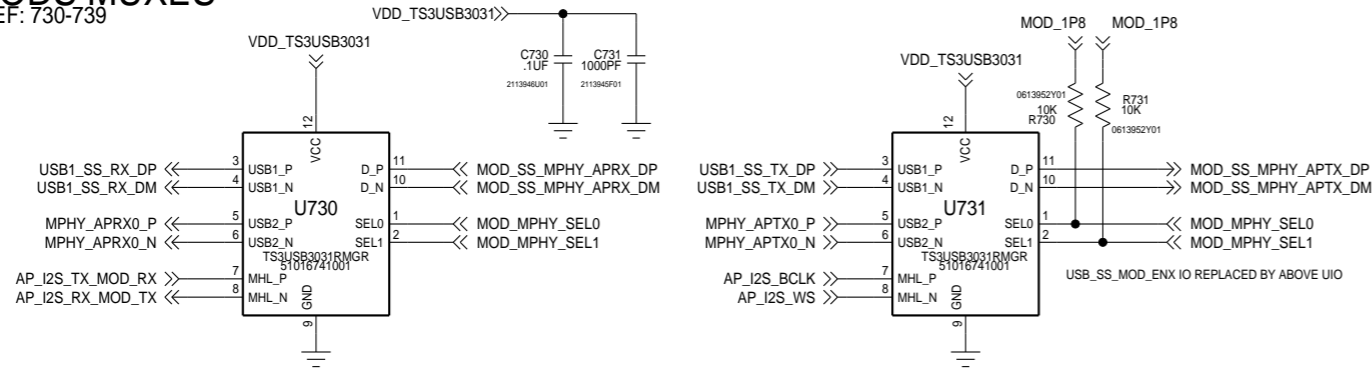
MODS VBUS POWER

REF: 720-729



MODS MUXES

REF: 730-739



CONTROLS FOR MPHY LANE0/SPI/I2S PATHS TO MOD CONNECTOR

MOD_MPHY_SEL1	MOD_MPHY_SELO	PATH
0	0	USB SS
0	1	MPHY
1	0	I2S
1	1	HIGH Z

CONTROLS FOR SWITCHING ASYMMETRIC MPHY/DP/USB-HS PATH TO MODS CONNECTOR

MOD_MPHY_SEL3	MOD_MPHY_SEL2	PATH
0	0	DP/USB-HS
0	1	MPHY RX (CSI)
1	0	MPHY TX (DSI)
1	1	HIGH Z

ADD SYNONYMS BELOW IF U732/C732 PACK IGNORED (NO ASYMMETRIC MPHY SUPPORT)

MOD_USB_DP >>	MOD_MPHY_DP_USB_DP
MOD_USB_DM >>	MOD_MPHY_DP_USB_DM

APPROVALS

ENGINEER: MOTOROLA

LAST MODIFIED BY: MOTOROLA
Fri Mar 31 09:16:26 2017

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BLOCK TITLE:

slice_if

PROJECT NAME

B 84016657001_a.cpm

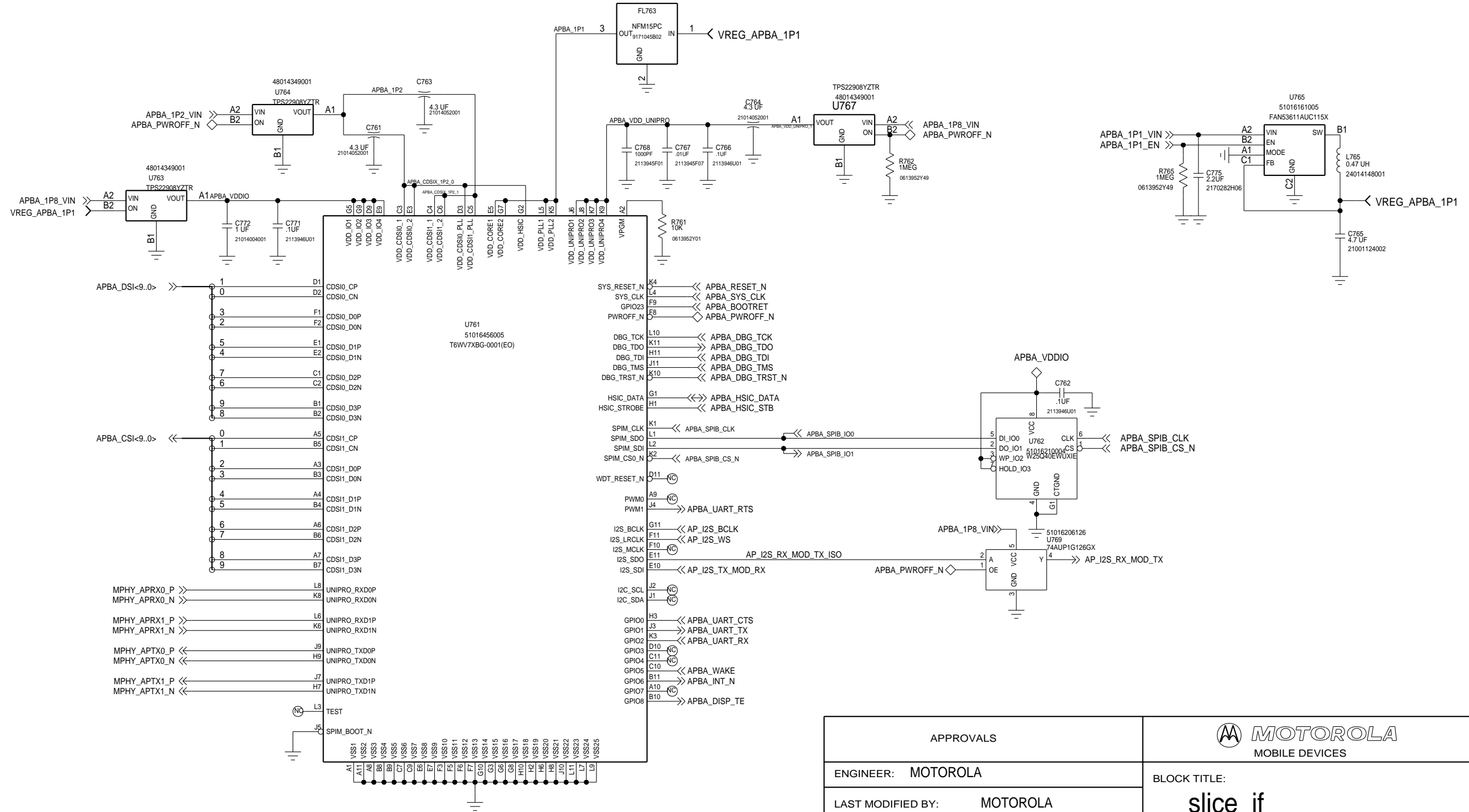
CAD FILE NAME:

REV

03

MODS: BRIDGE

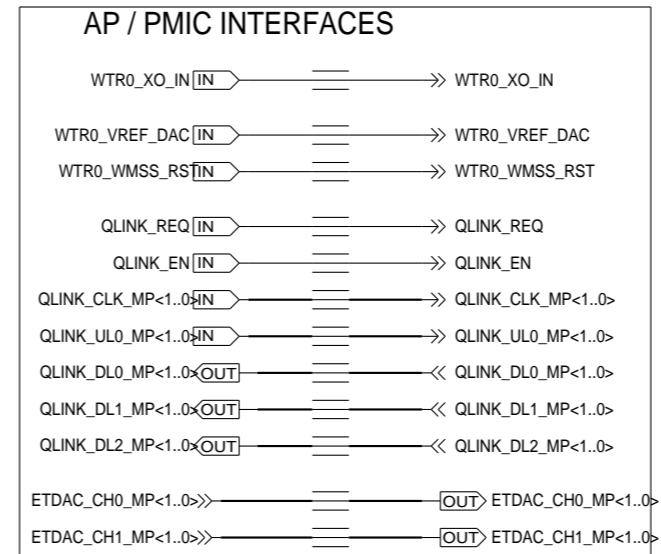
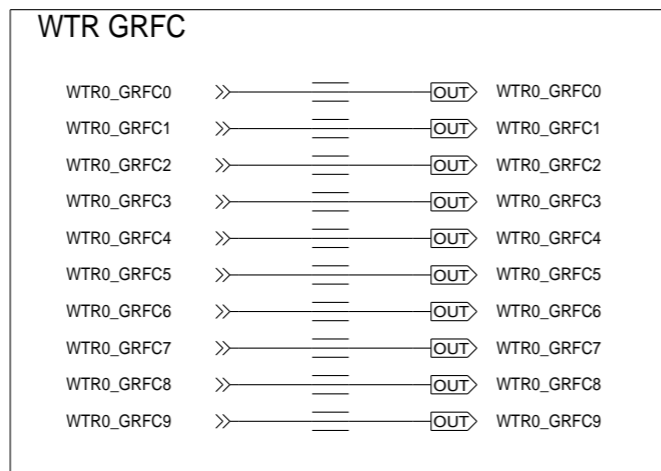
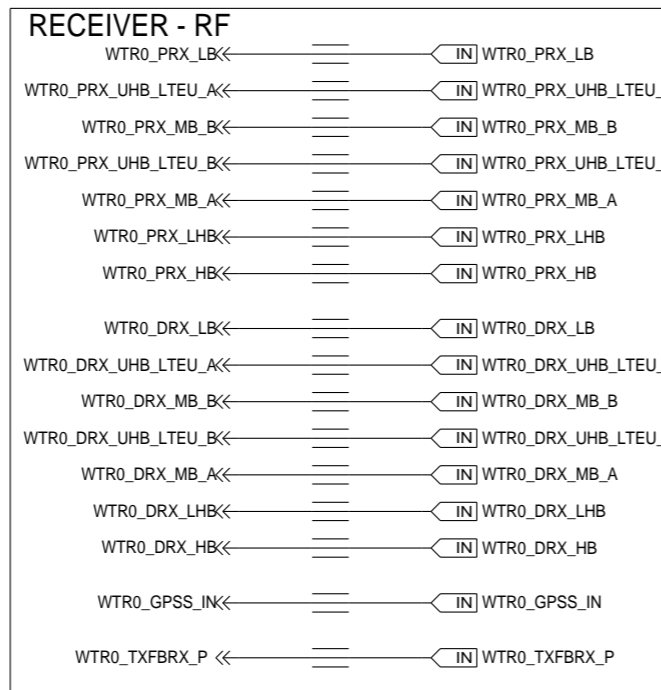
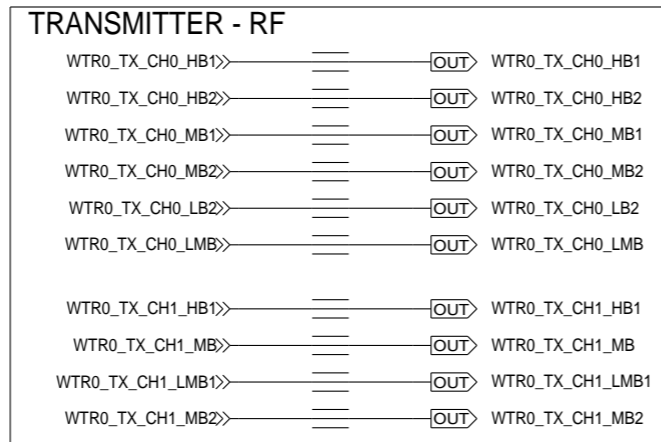
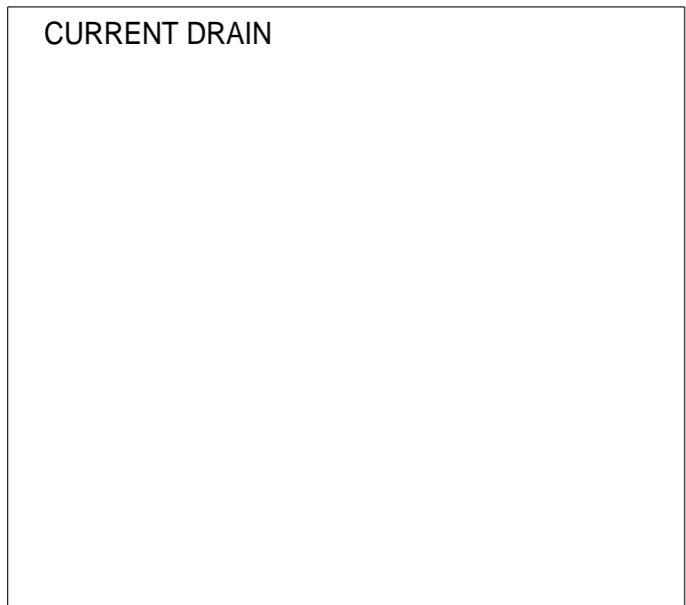
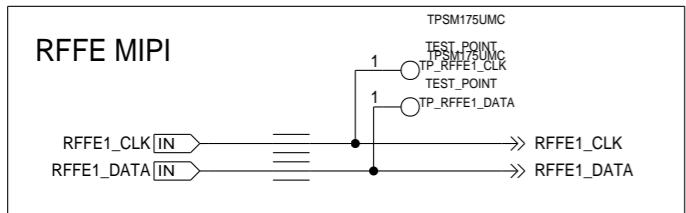
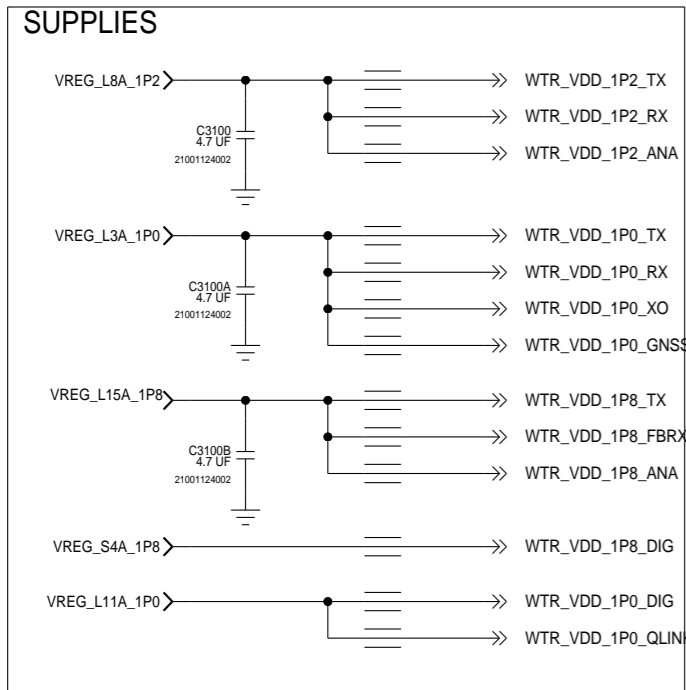
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APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: slice_if	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:25 2017			
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	
		PAGE 65 OF 91	

WTR5975: PORTS

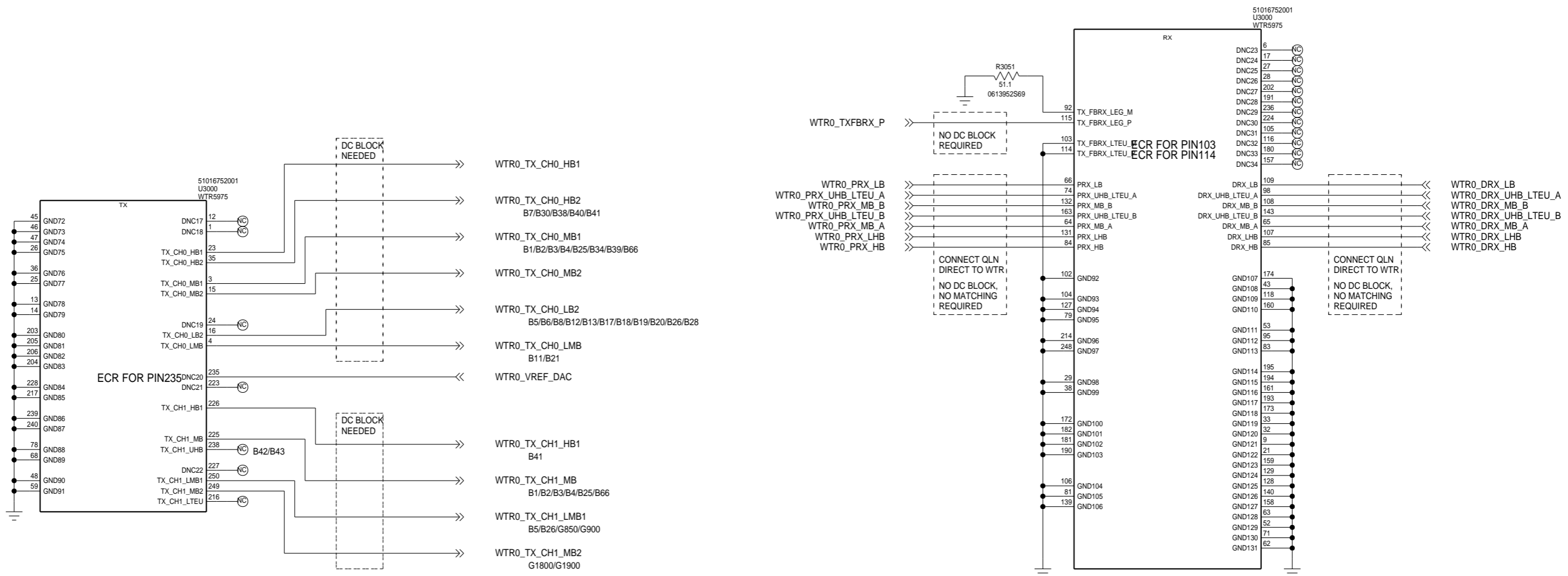
REF 3100-3149



APPROVALS			
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MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	REV
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		CAD FILE NAME:	PAGE 66 OF 91

WTR5975: RF

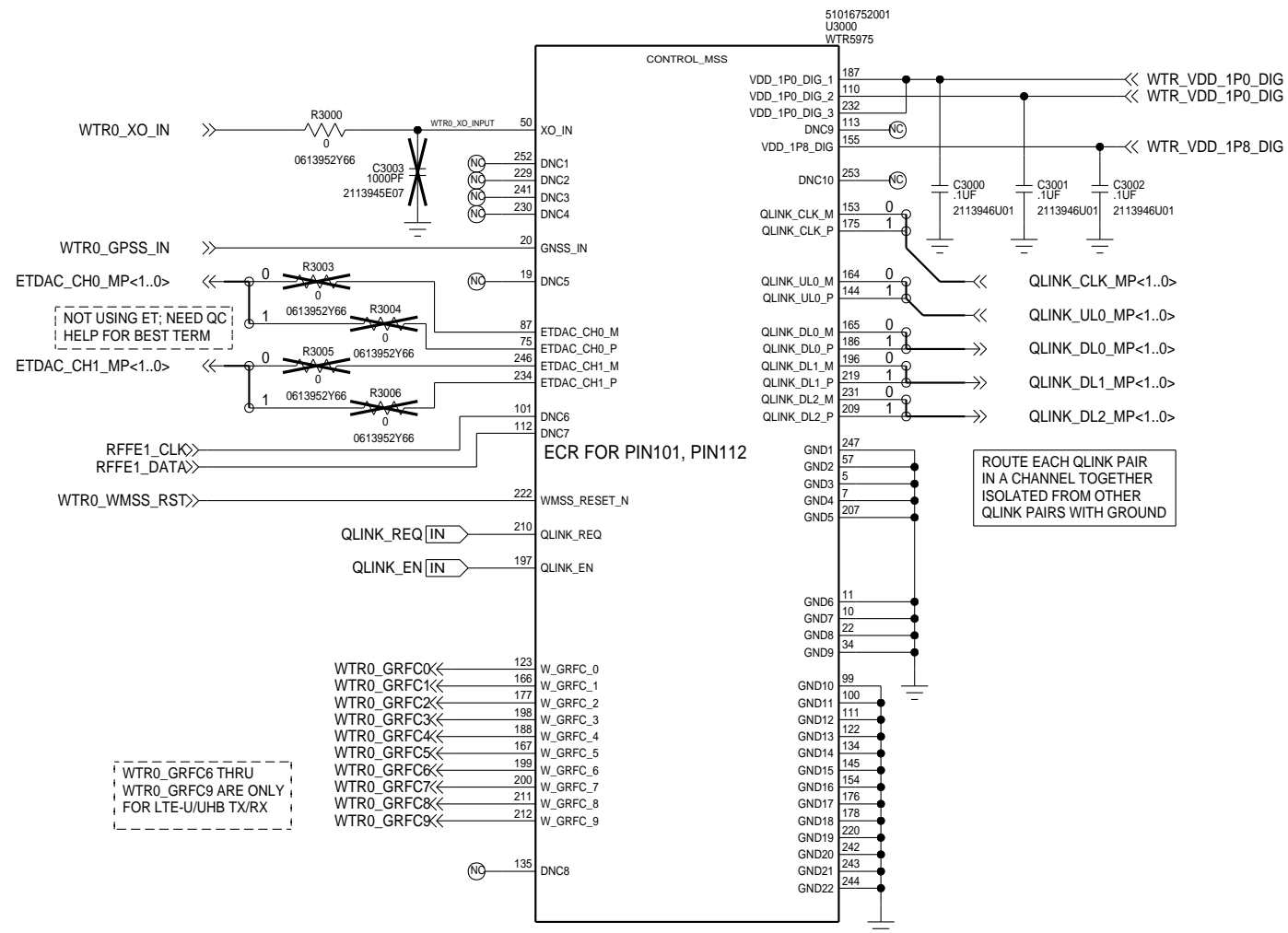
REF 3050-3099



APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:30 2017		blk_wtr5975	
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		B 80040001.a.cpm	03
CAD FILE NAME:		PAGE 68 OF 91	

WTR5975: CTRL / QLINK

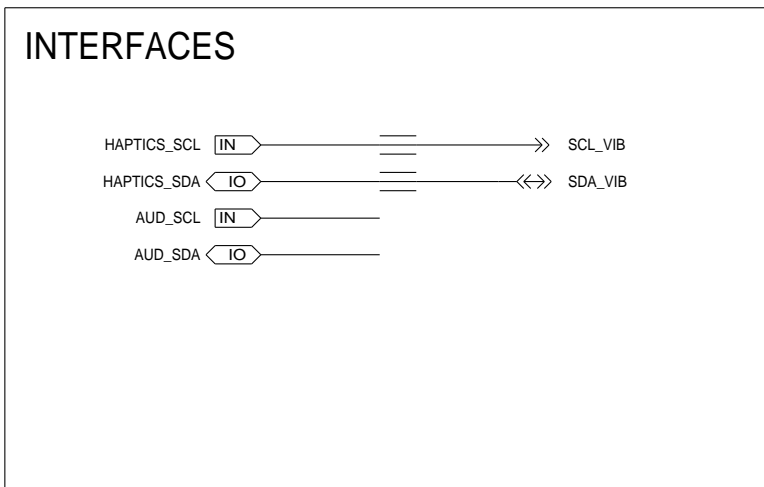
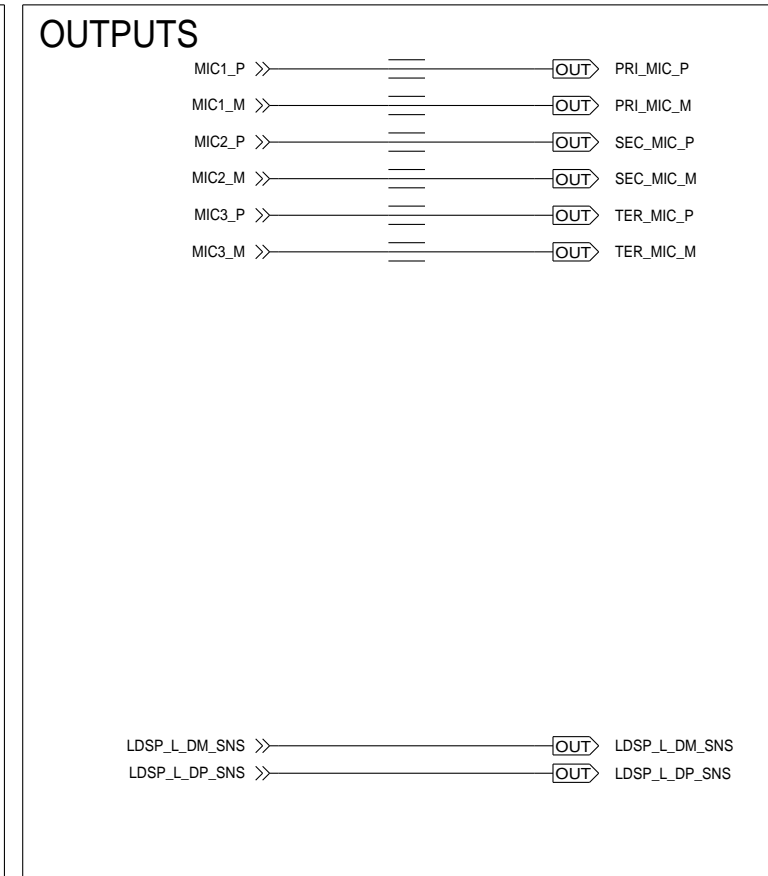
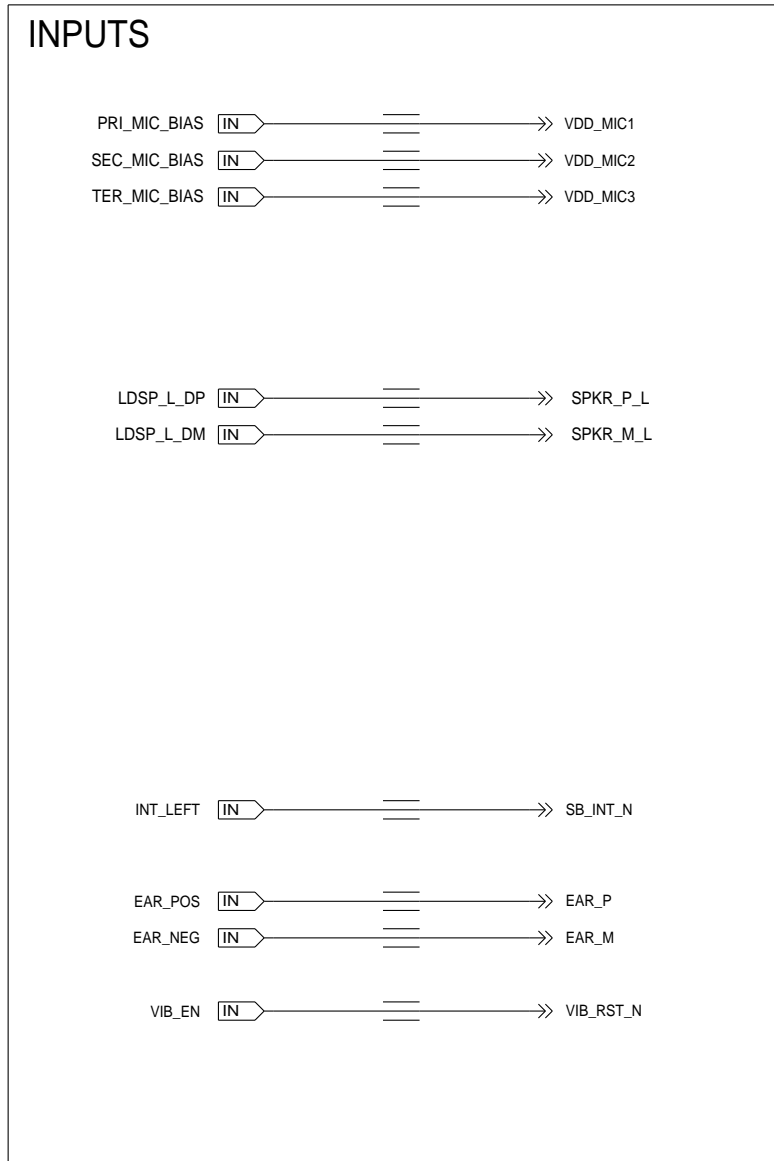
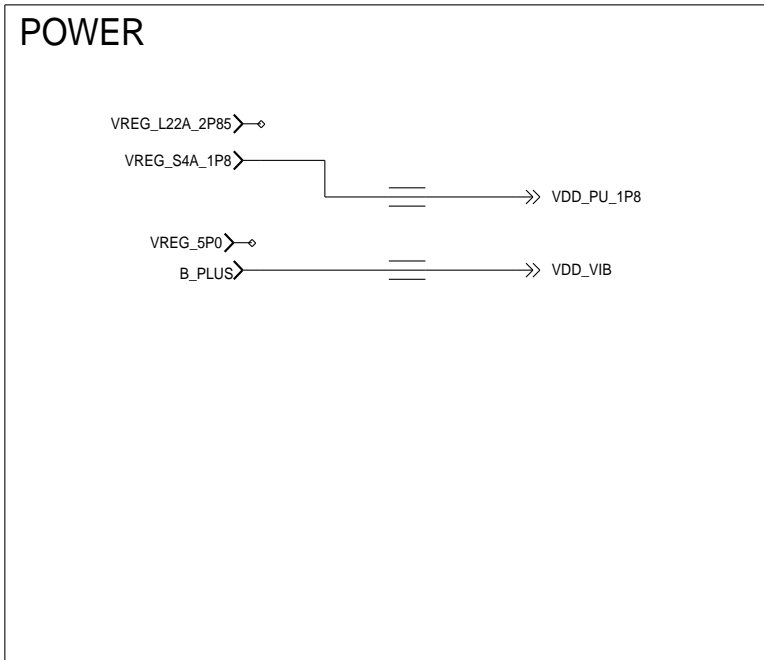
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APPROVALS		MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:31 2017		blk_wtr5975	
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		B 80046657001_a.cpm	03
		CAD FILE NAME:	PAGE 69 OF 91

AFE: PORTS

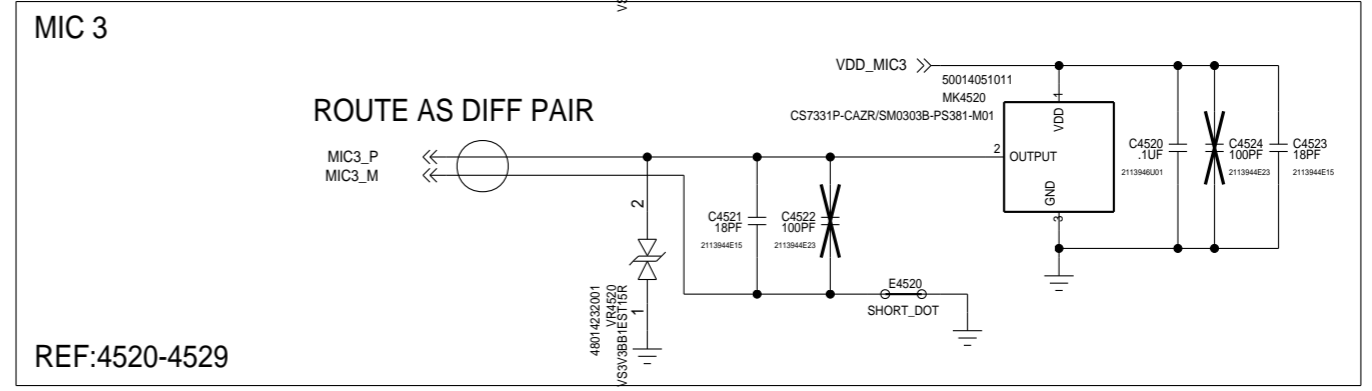
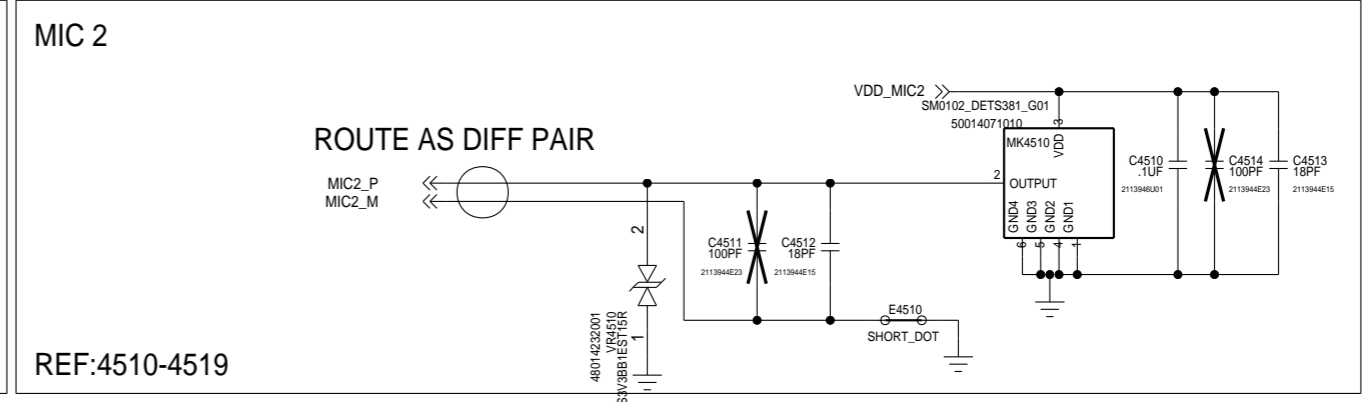
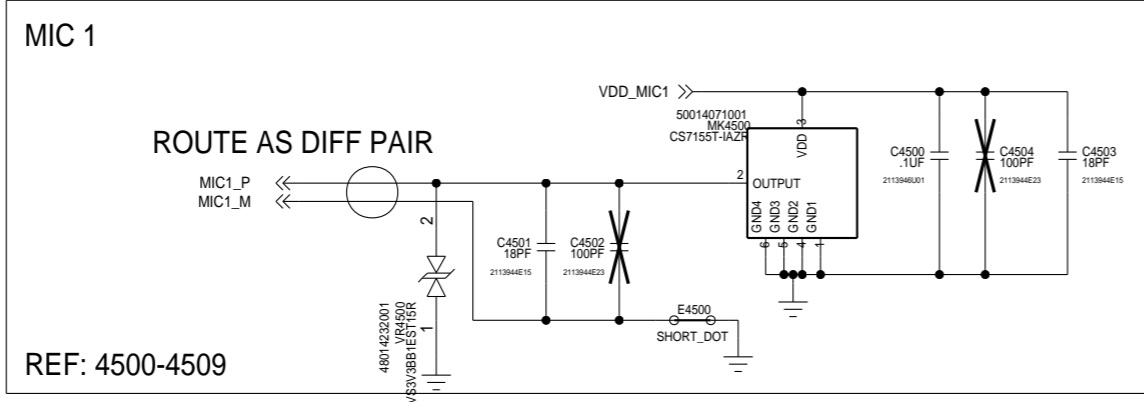
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		PAGE 70 OF 91	

AFE: MICS

REF: 4500-4599

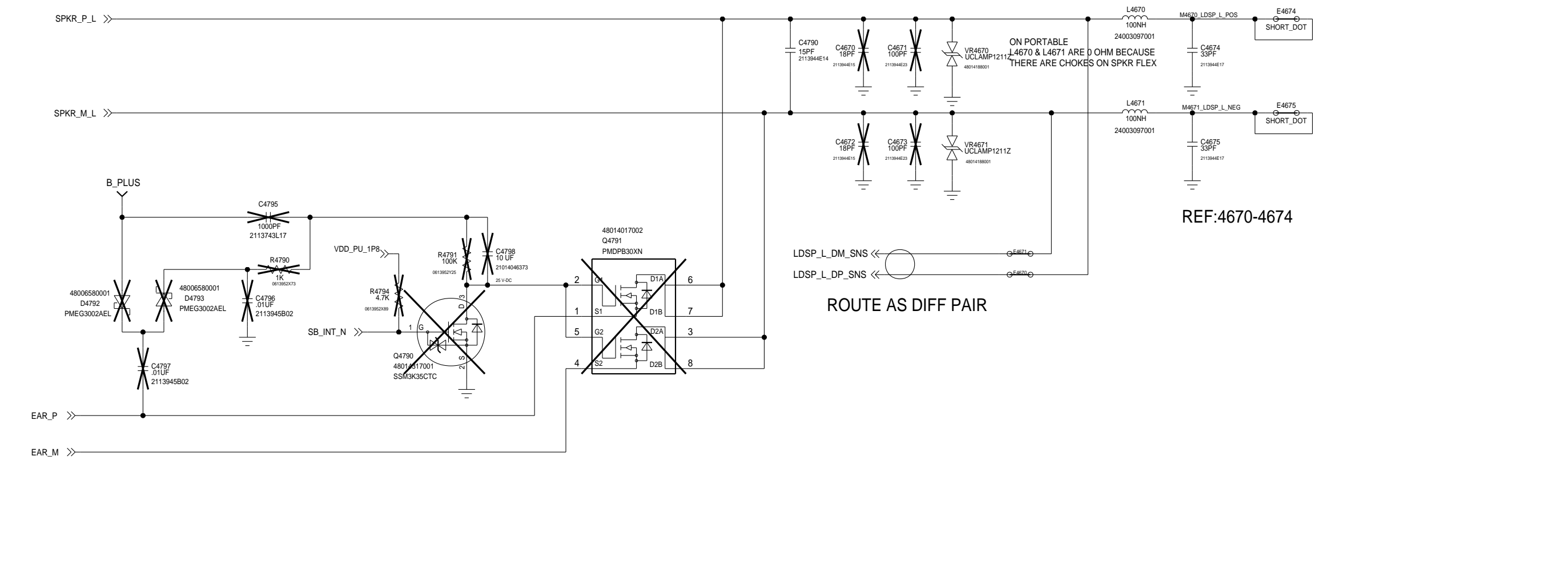


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		B 84016657001_a.cpm	03
CAD FILE NAME:		PAGE 71 OF 91	

AFE: SPEAKERS

REF: 4600-4799

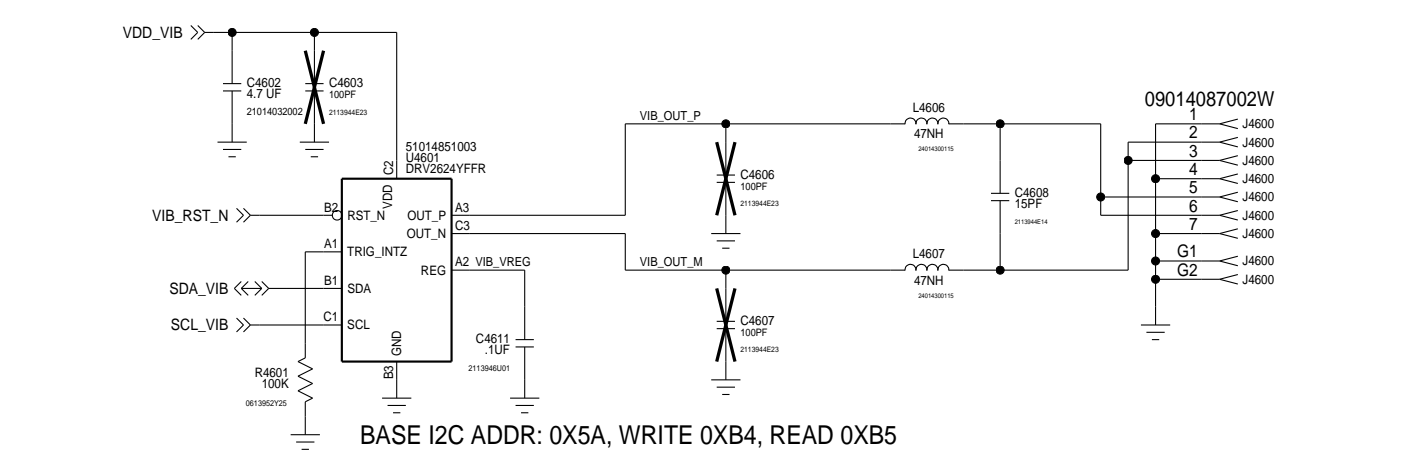
LOUDSPEAKER LEFT / EARPIECE (TOP)



ROUTE AS DIFF PAIR

REF:4670-4674

LINEAR VIBRATOR REF DES 4600-4619



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE: audio_fe	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:34 2017		PROJECT NAME B 84016657001_a.cpm	
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AFE: 3.5MM HEADSET

AUDIO JACK DETECTION
REF:4800-4849

FSA8500 DELETED

BASE I2C ADDR: 0X23, WRITE 0X46, READ 0X47

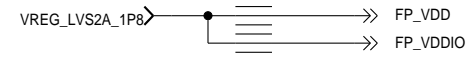
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APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Thu Sep 08 14:13:50 2016		audio_fe	
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		CAD FILE NAME:	PAGE 73 OF 91

USR: PORTS

REF: 800-999

SUPPLIES

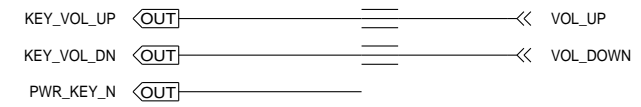


INTERFACES



GPIO - INPUT

GPIO - OUTPUT

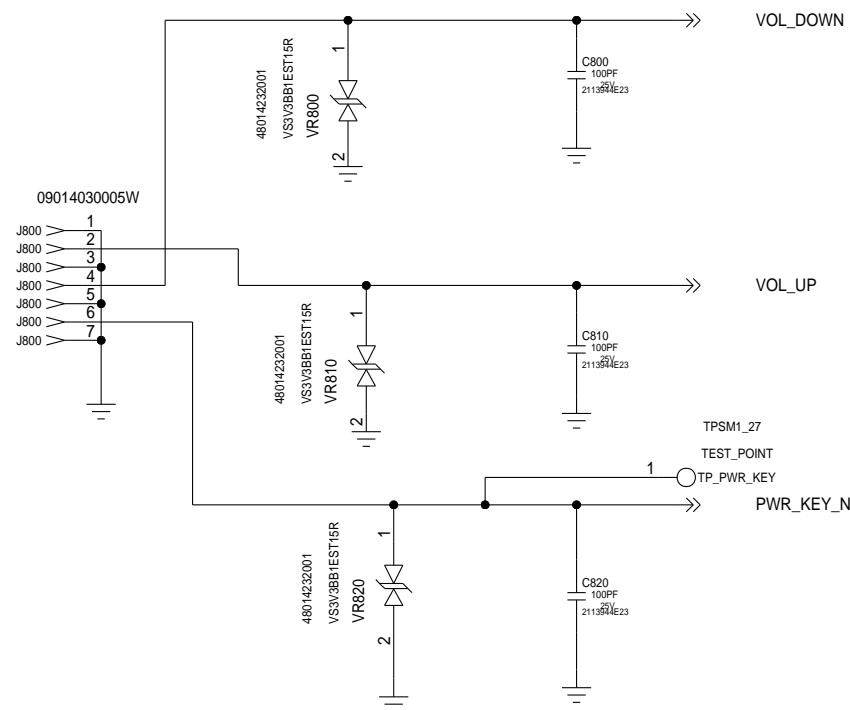


APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:12:48 2017		user_input	
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		CAD FILE NAME:	PAGE 74 OF 91

USR: INPUT

REF: 800-899

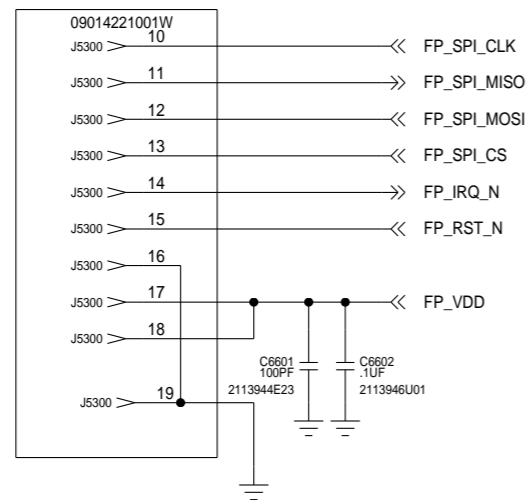
SIDEKEY FLEX CONN



APPROVALS			
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:37 2017		user_input	
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		B 84016657001_a.cpm	03
CAD FILE NAME:			PAGE 75 OF 91

USR: FPC

REF: 6600 - 6699



NOTE: FPC CONNECTOR USES PINS FROM THE DISPLAY CONNECTOR.

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:38 2017		user_input	
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		CAD FILE NAME:	PAGE 76 OF 91

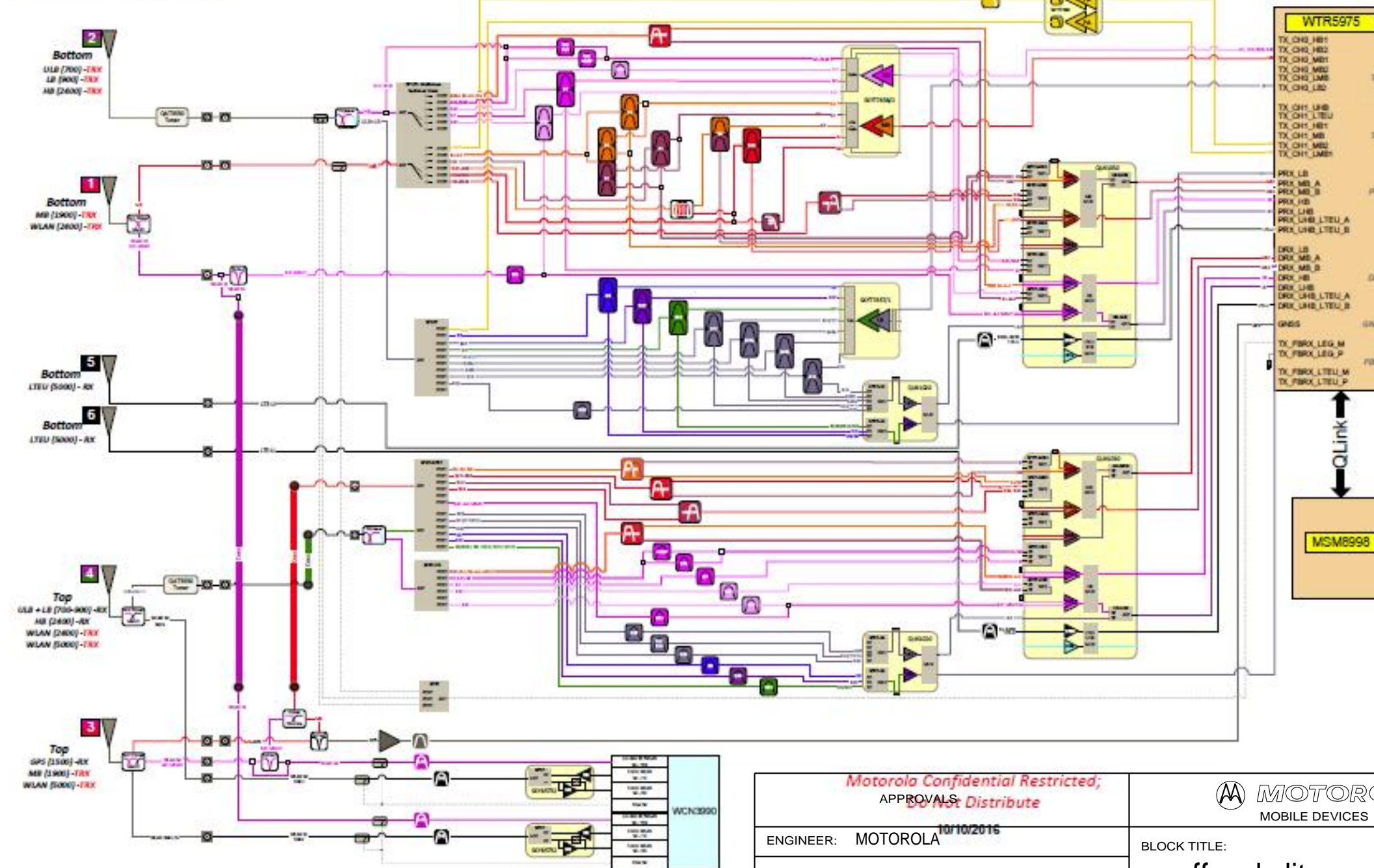
RFFE: BLOCK DIAGRAM

REFDES: 7000-8999

Golden Eagle RF Block Diagram

1 - N/A: L: 1,2,25,3,4/66,5/26,7,8,12/17,13,20,28,29,30,38,40,41;	W: 1,2,4,3,8;	C: 0,1,10;	T: N/A;	4xGSM;	3xDL: See URL;	2xDL: See URL;	ULCA: None;	4x4 MIMO: See URL;
2 - Sprint: L: 1,2,3,4,5/18/19/26,8,12/17,20,41;	W: 1,2,4,5/19,8;	C: 0,1,10;	T: N/A;	4xGSM;	3xDL: See URL;	2xDL: See URL;	ULCA: See URL;	4x4 MIMO: See URL;
3 - ROW: L: 1,2,3,4,5/18/19/26,7,8,12/17,20,28,38,39,40,41;	W: 1,2,4,5/19,8;	C: 0,1,10;	T: 34,39;	4xGSM;	3xDL: See URL;	2xDL: See URL;	ULCA: See URL;	4x4 MIMO: N/A;

[Band & CA Support by Product & SKU](#)

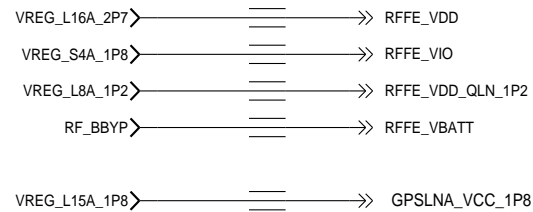


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<p>ENGINEER: MOTOROLA</p>		<p>BLOCK TITLE:</p> <p>rffe_skylite</p>	
<p>LAST MODIFIED BY: MOTOROLA</p> <p>Tue Oct 11 14:26:20 2016</p>		<p>PROJECT NAME</p> <p>B 84016657001_a.cpm</p>	
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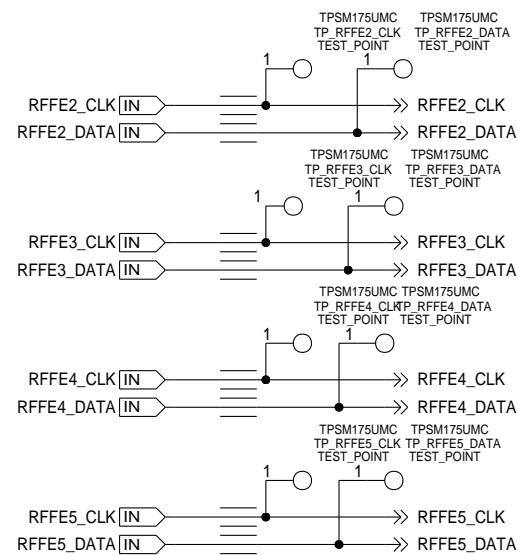
RFFE: PORTS

REFDES: 7000-8999

POWER



INTERFACES - RFFE MIPI

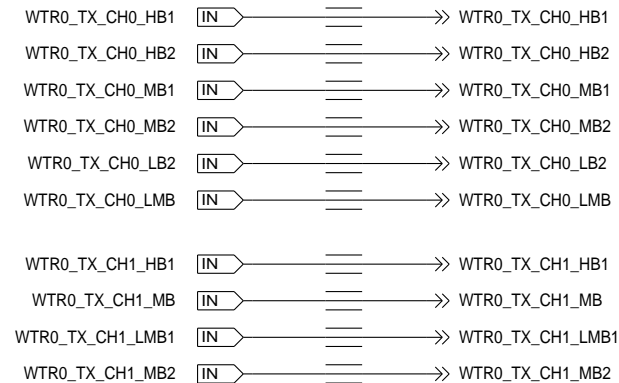


INTERFACES - GRFC

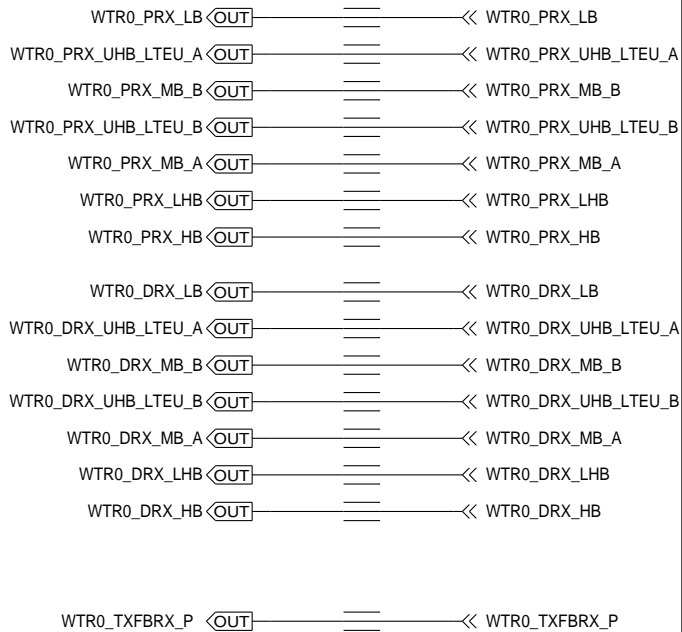


NOTE: GRFC7 SHOULD NOT BE ASSIGNED TO RF IT IS RESERVED AS BOOT_CONFIG CONTROL GPIO

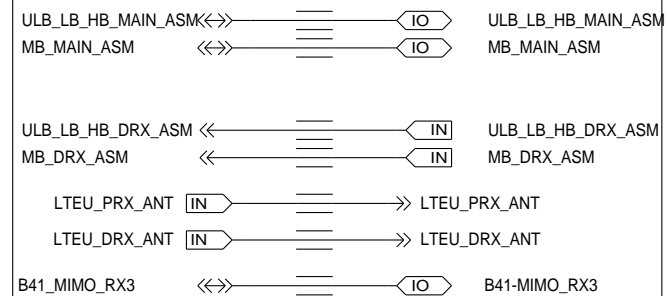
TRANSMITTER - RF



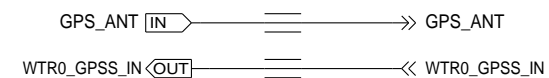
RECEIVER - RF



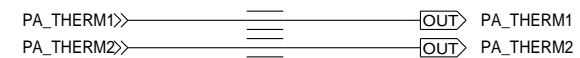
OUTPUTS - RF ANTENNA CONNECTORS



GPS



THERMISTORS

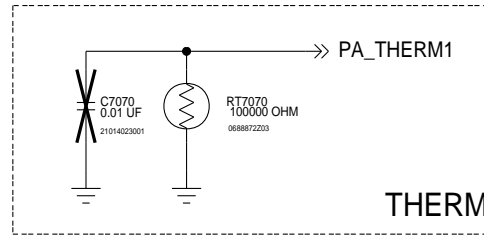


QUALCOMM RECOMMENDS PLACING BOTH THERMISTORS FOR FUTURE SW IMPLEMENTATION THEY ARE WORKING ON

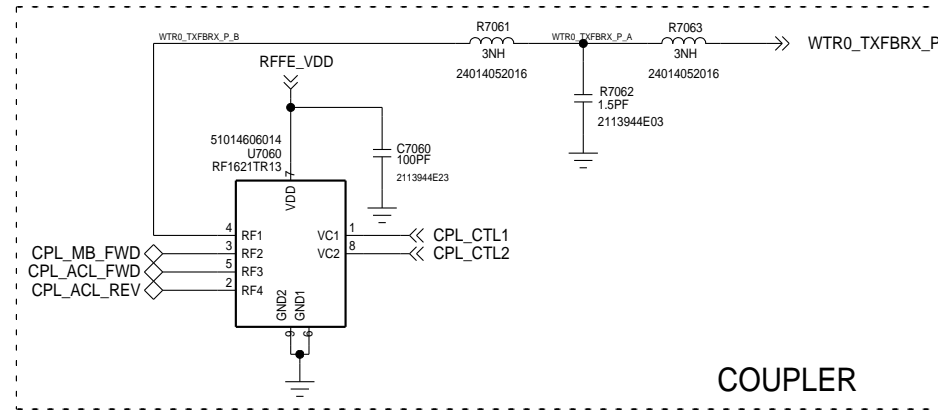
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ENGINEER: MOTOROLA		BLOCK TITLE:	
LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:53 2017		rffe_skylite	
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		CAD FILE NAME:	
		PAGE 78 OF 91	

RFFE:TRX ASM

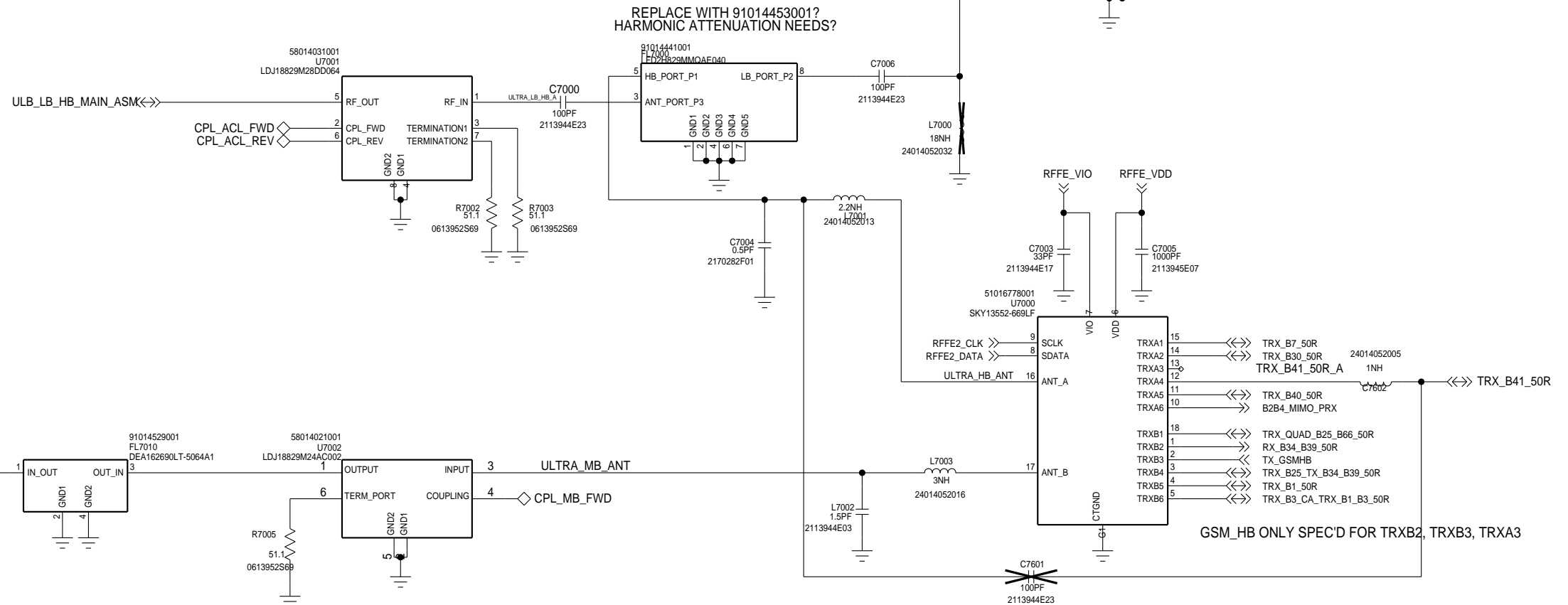
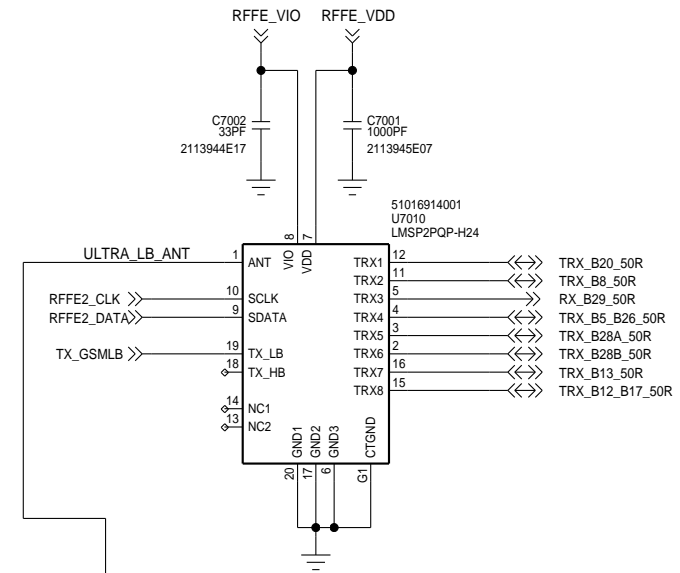
REFDES: 7000-7099



THERM



COUPLER

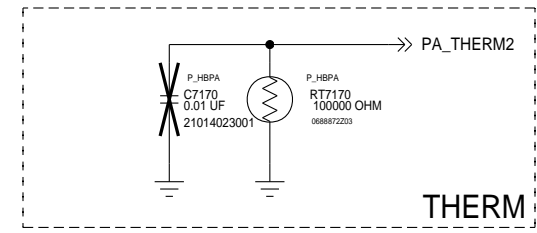
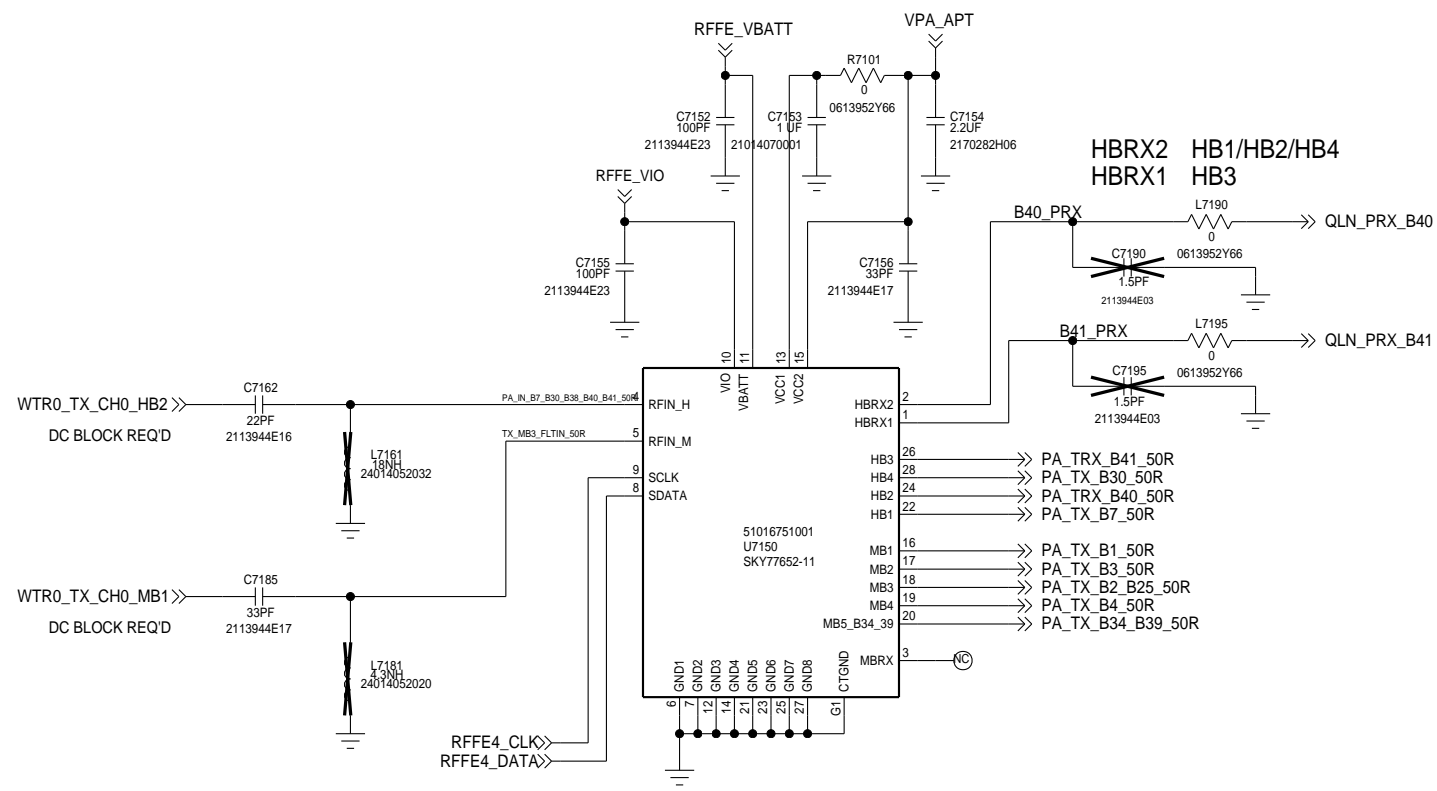
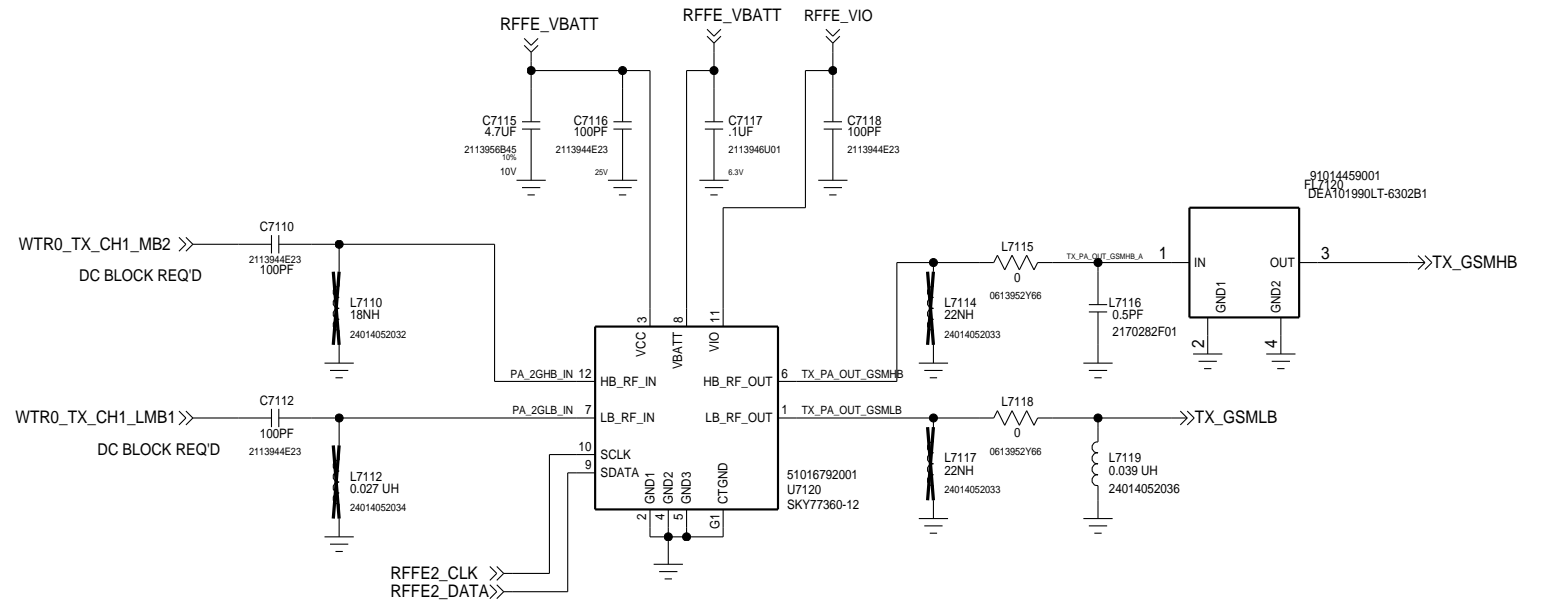
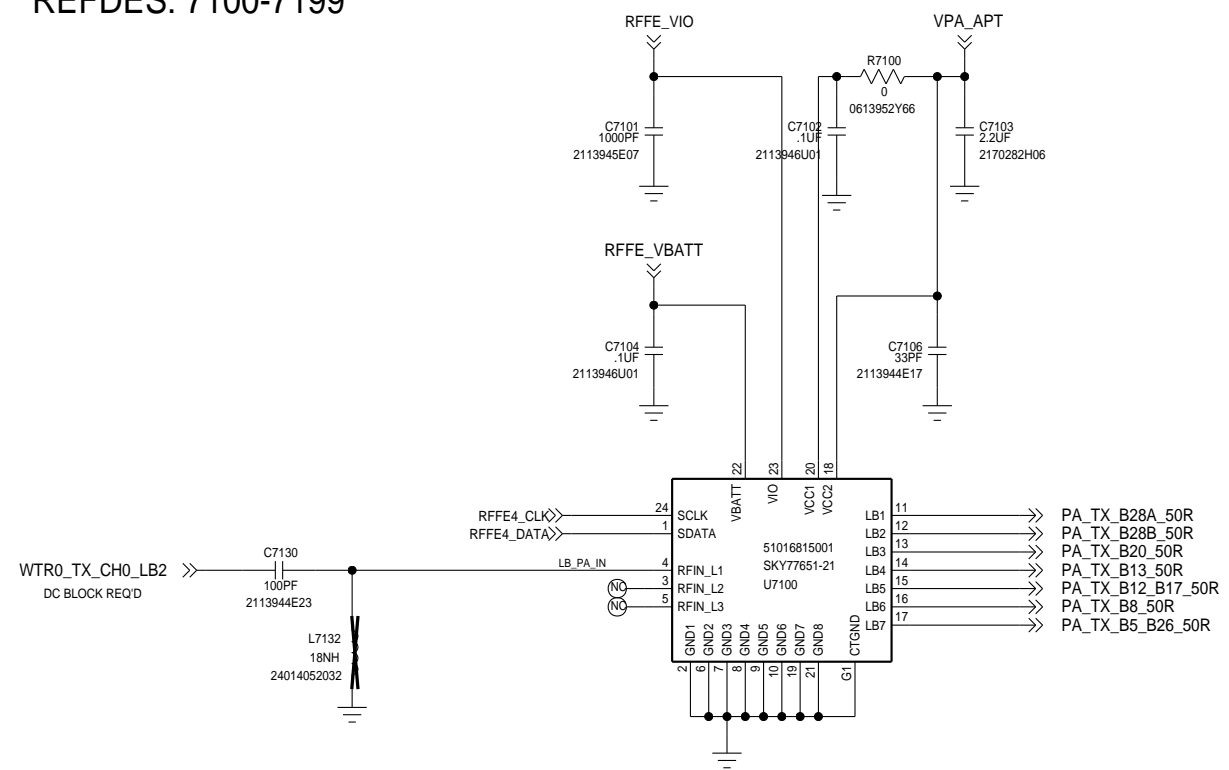


GSM_HB ONLY SPEC'D FOR TRXB2, TRXB3, TRXA3

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE: rffe_skylite	
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RFFE: SKYLITE PA

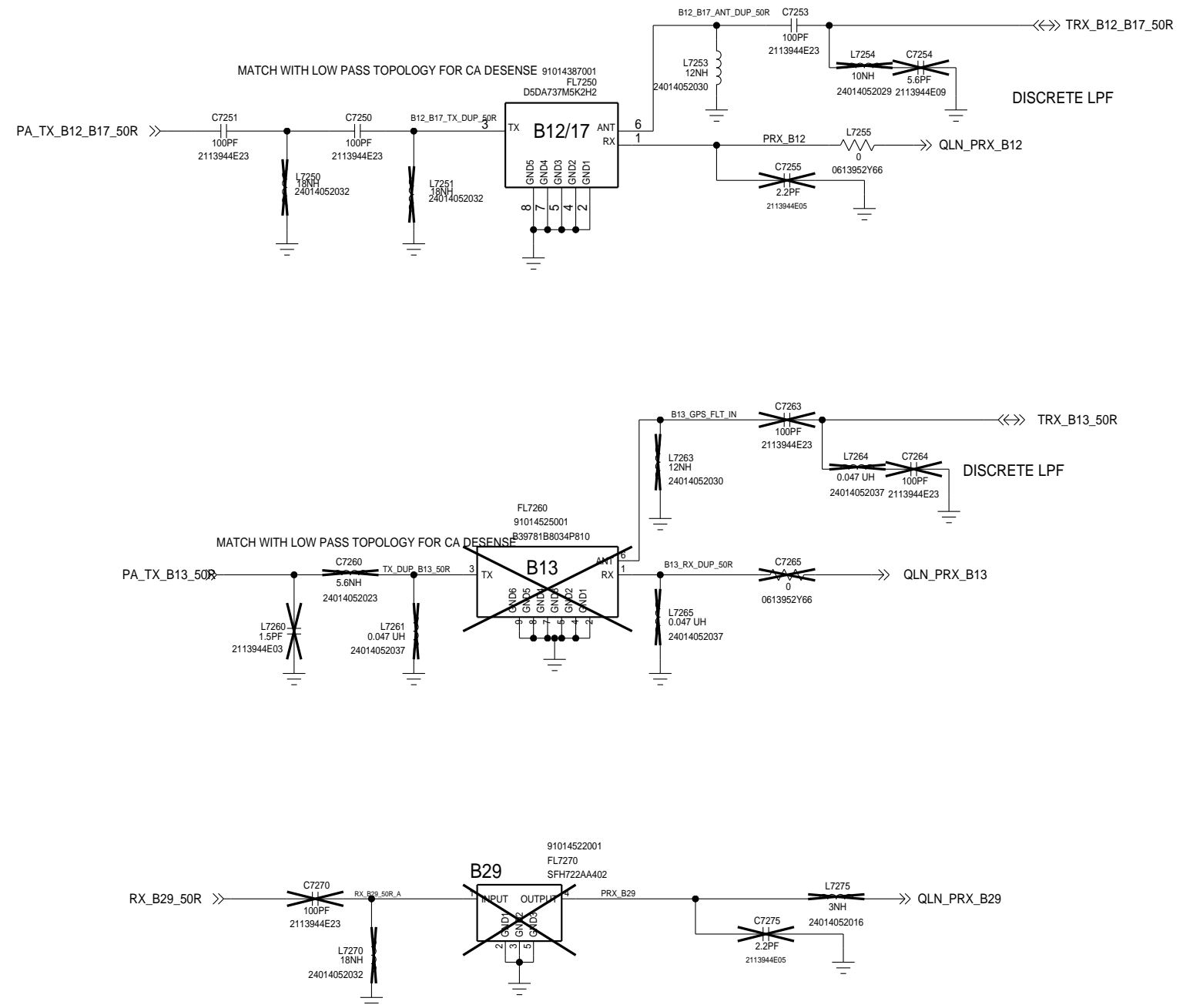
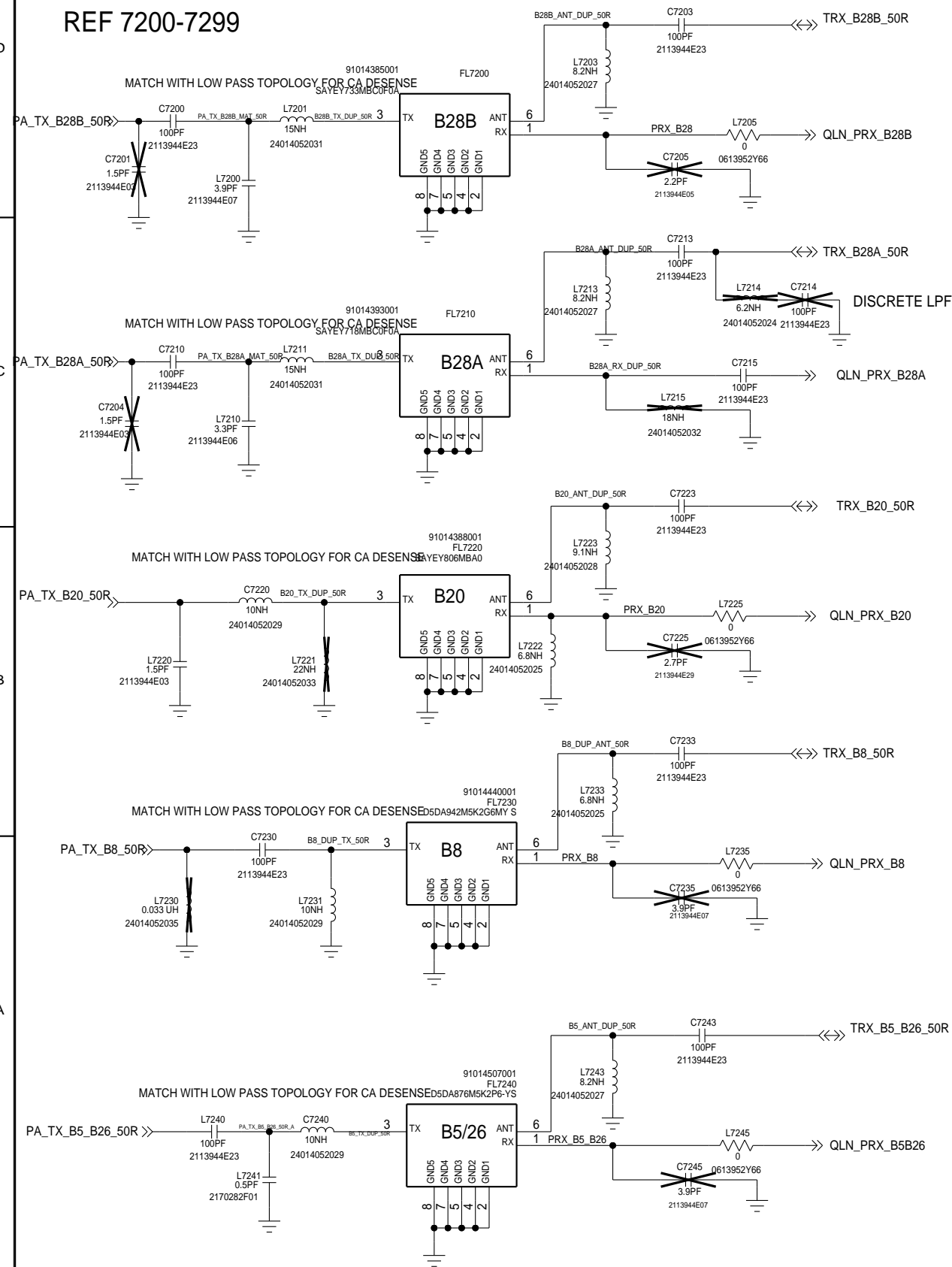
REFDES: 7100-7199



APPROVALS		MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: Fri Mar 31 09:16:44 2017		PROJECT NAME B 84016657001_a.cpm	
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		CAD FILE NAME: PAGE 80 OF 91	

RFFE: PRX LB

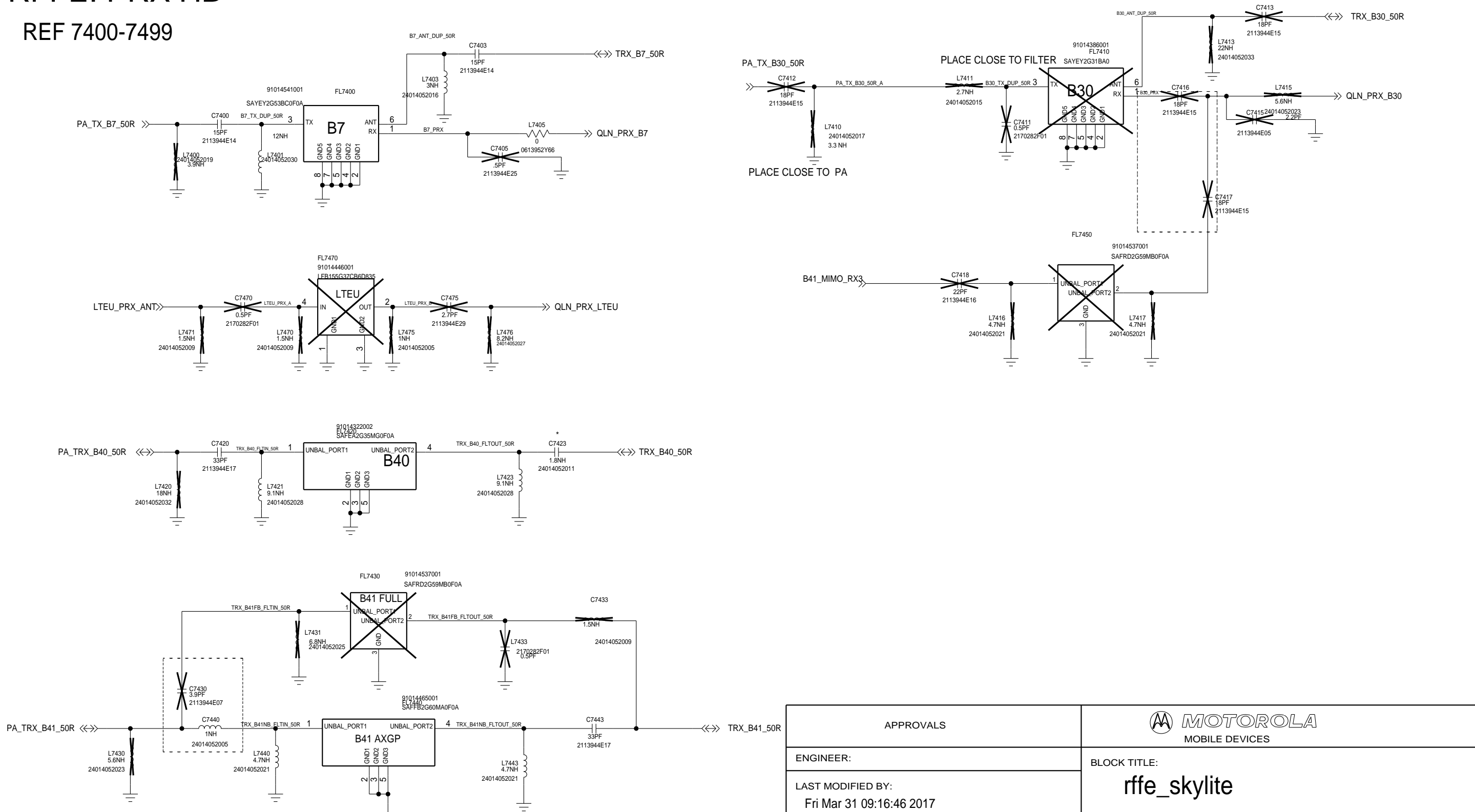
REF 7200-7299



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Fri Mar 31 09:16:39 2017		PROJECT NAME	
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		PAGE 81 OF 91	

RFFE: PRX HB

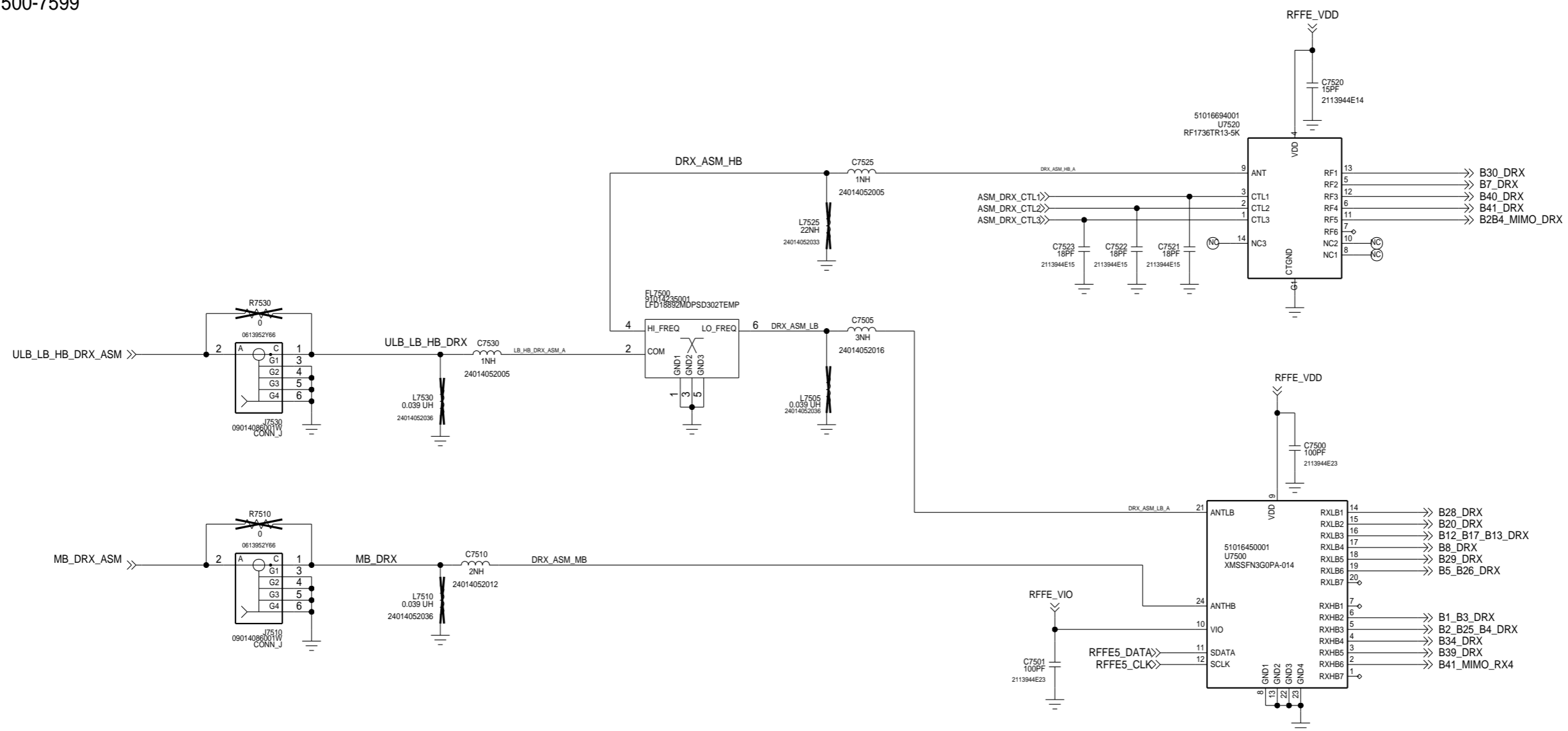
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APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY:		rffe_skylite	
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		B 84016657001_a.cpm	03
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		PAGE 83 OF 91	

RFFE: DRX ASM

REF 7500-7599

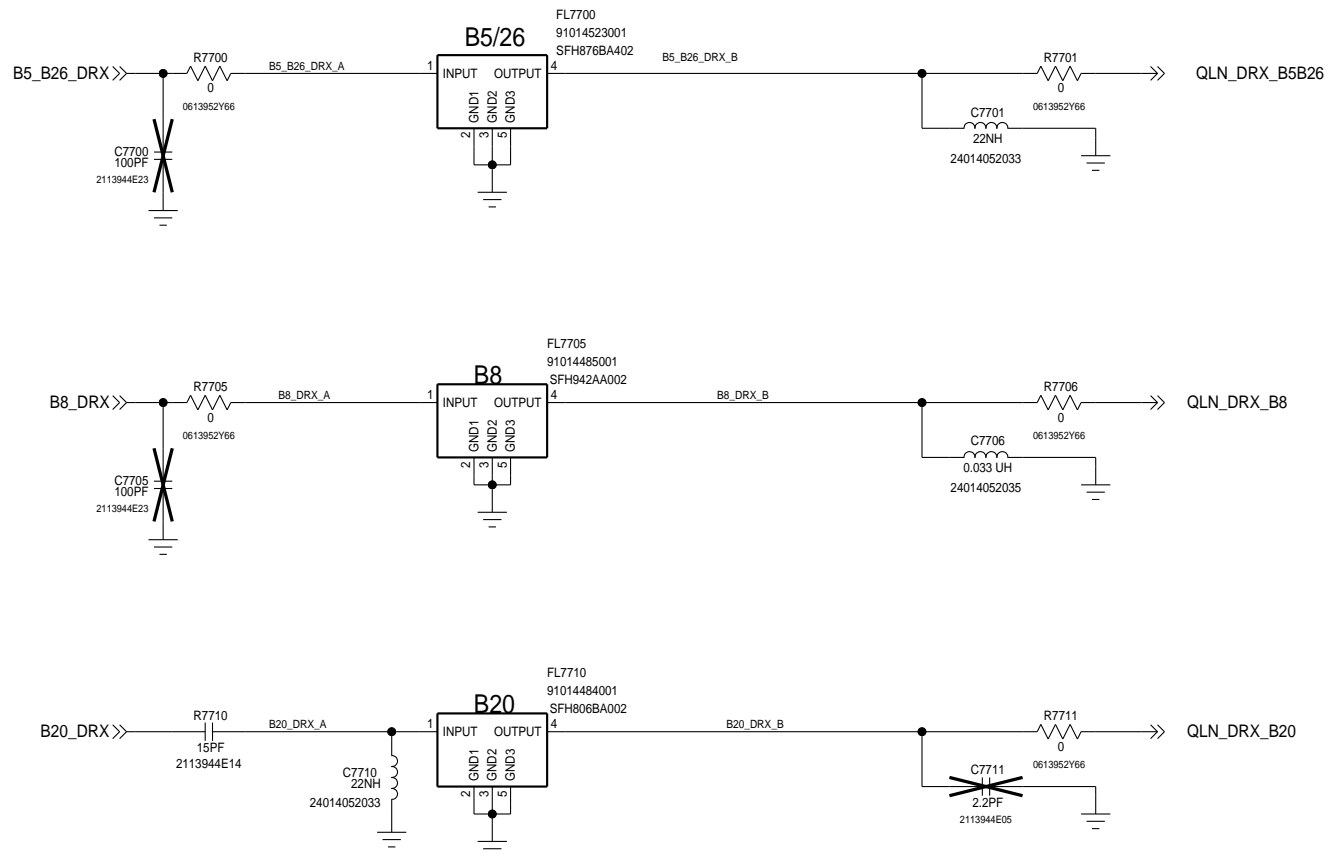


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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:52 2017		rffe_skylite	
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		PAGE 84 OF 91	

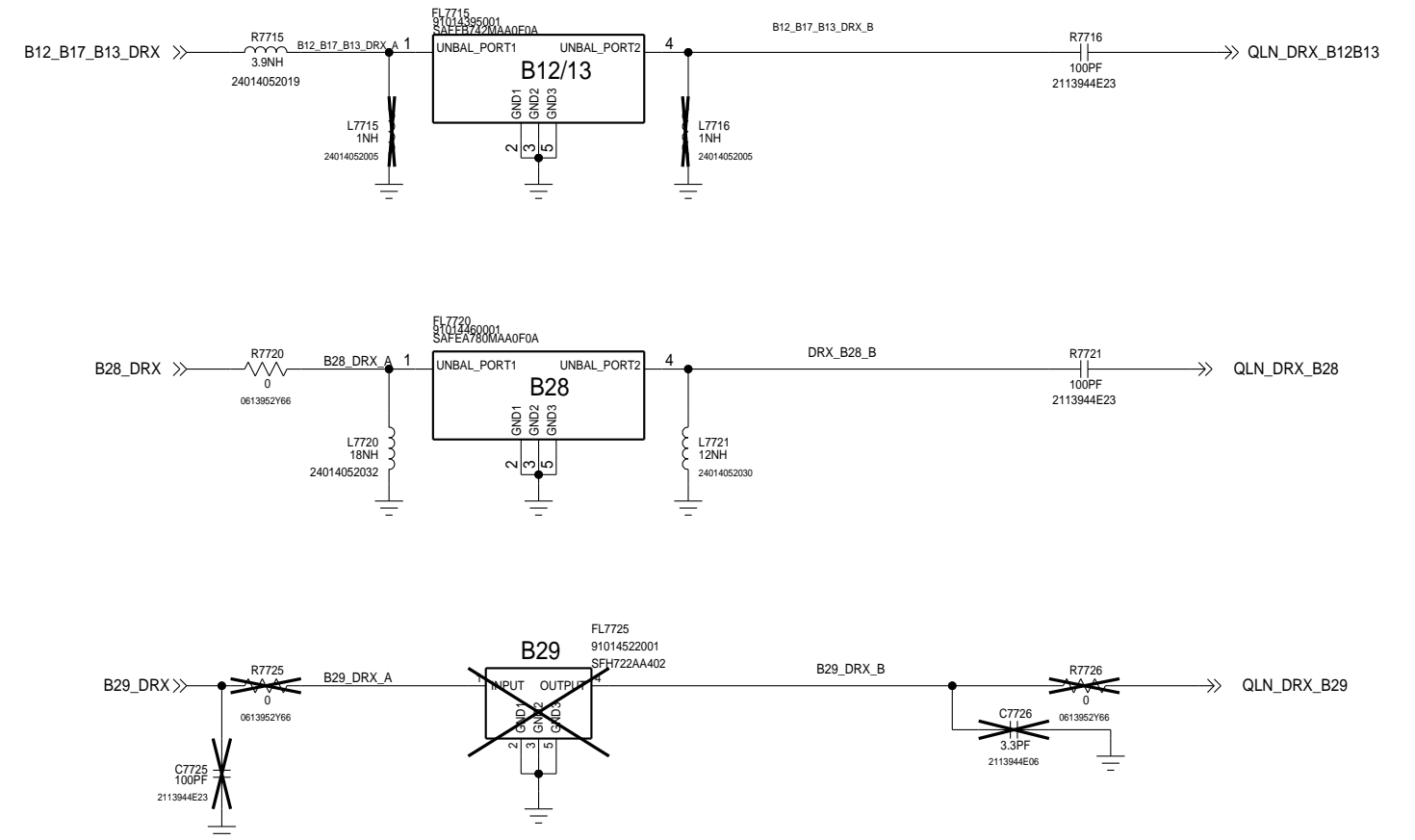
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LB DIVERSITY



ULB DIVERSITY

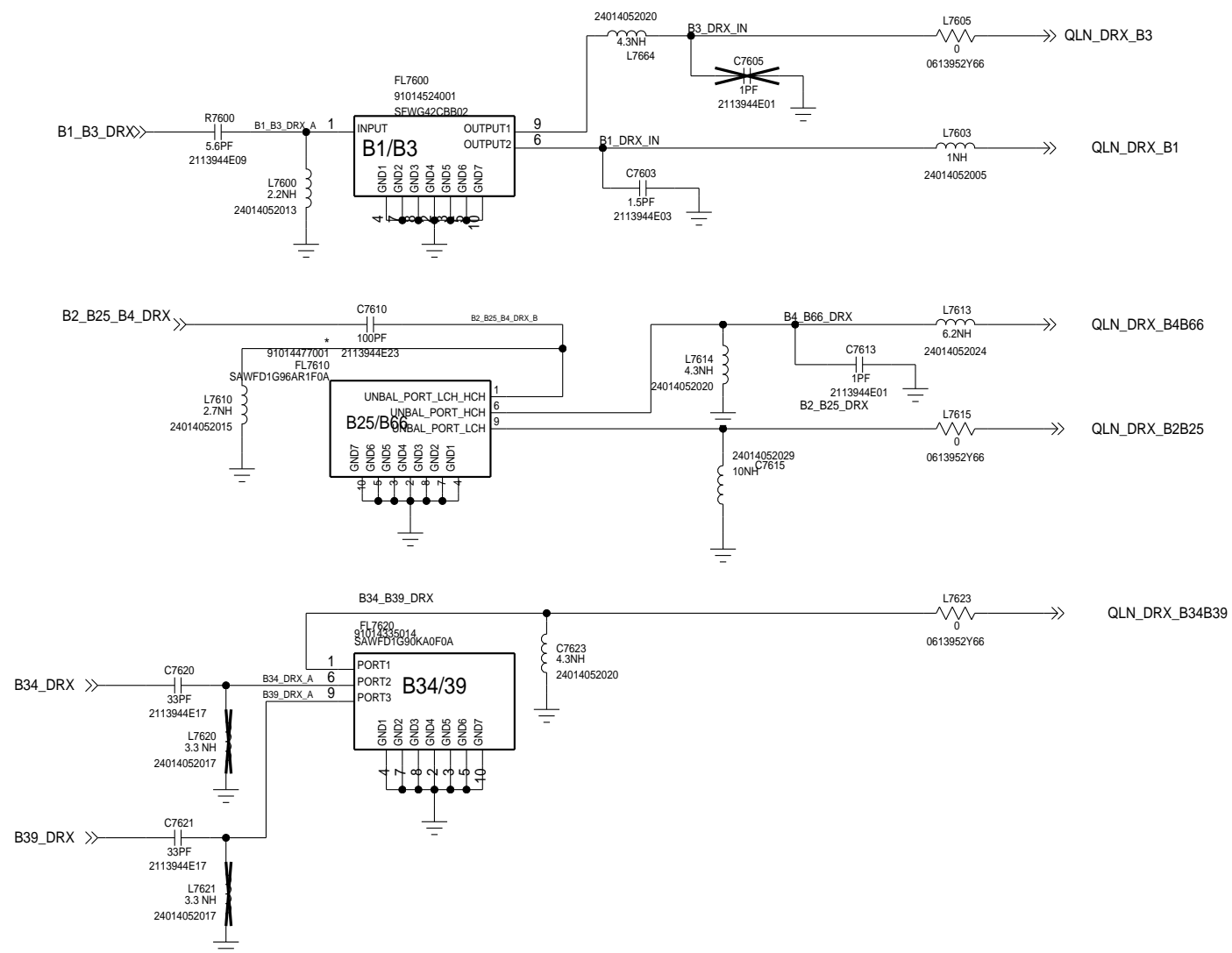


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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:52 2017		PROJECT NAME B 8004657001_a.cpm	
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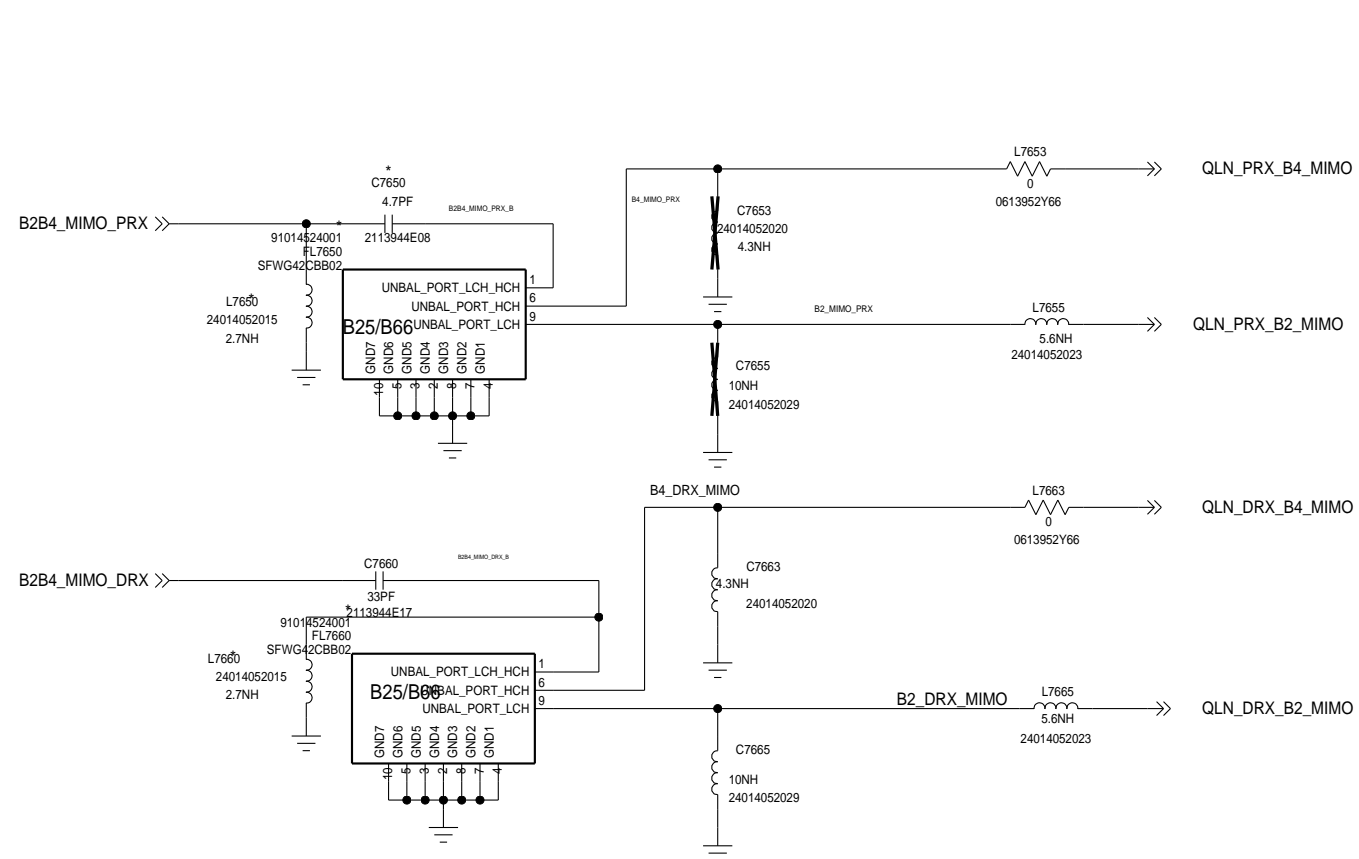
RFFE: DRX MB

REF 7600-7699

MB DIVERSITY



MB 4X4 MIMO



APPROVALS

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Fri Mar 31 09:16:47 2017

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BLOCK TITLE:

rffe_skylite

PROJECT NAME

B 80040001_a.cpm

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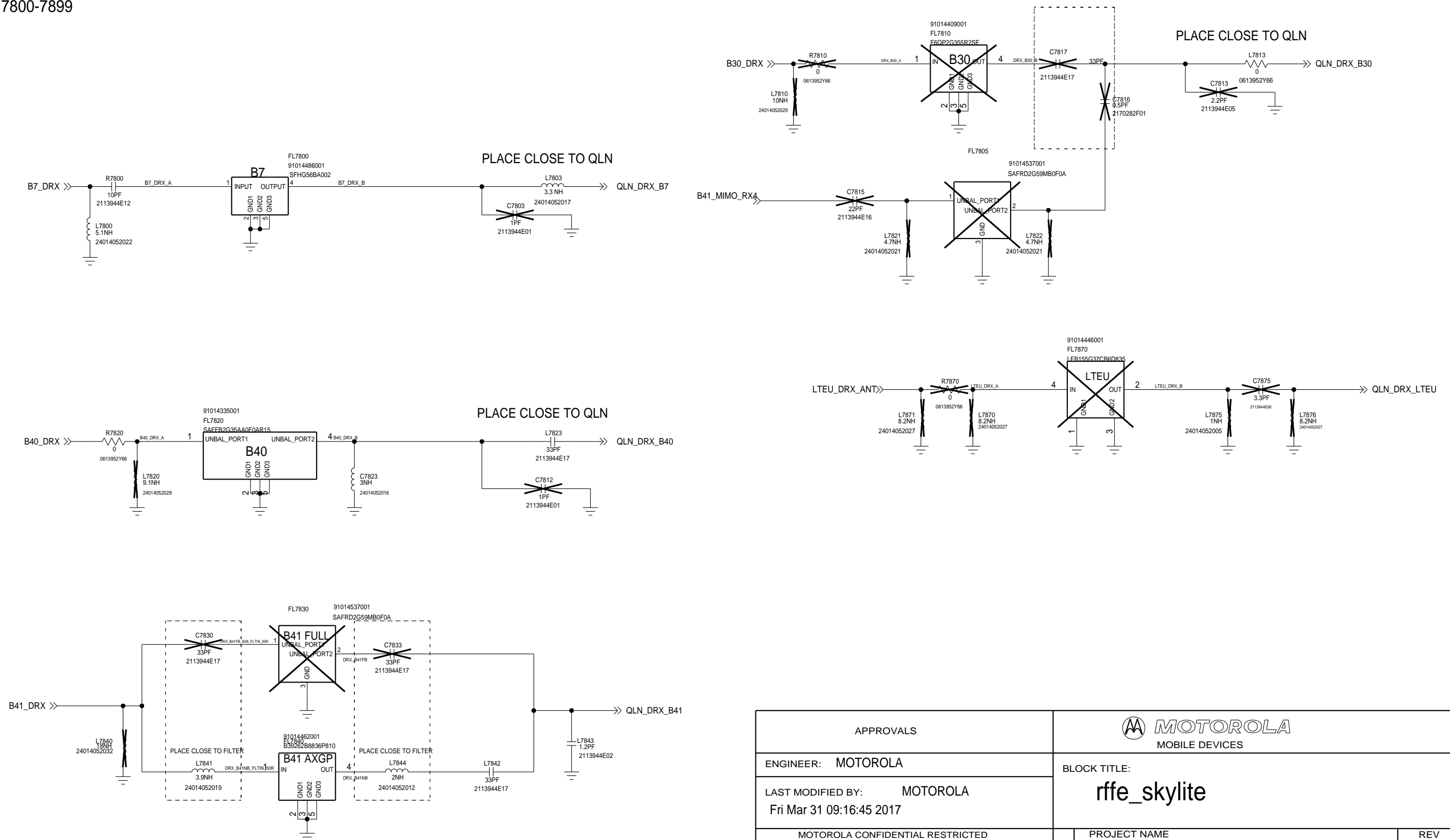
REV

03

PAGE 86 OF 91

RFFE: DRX HB

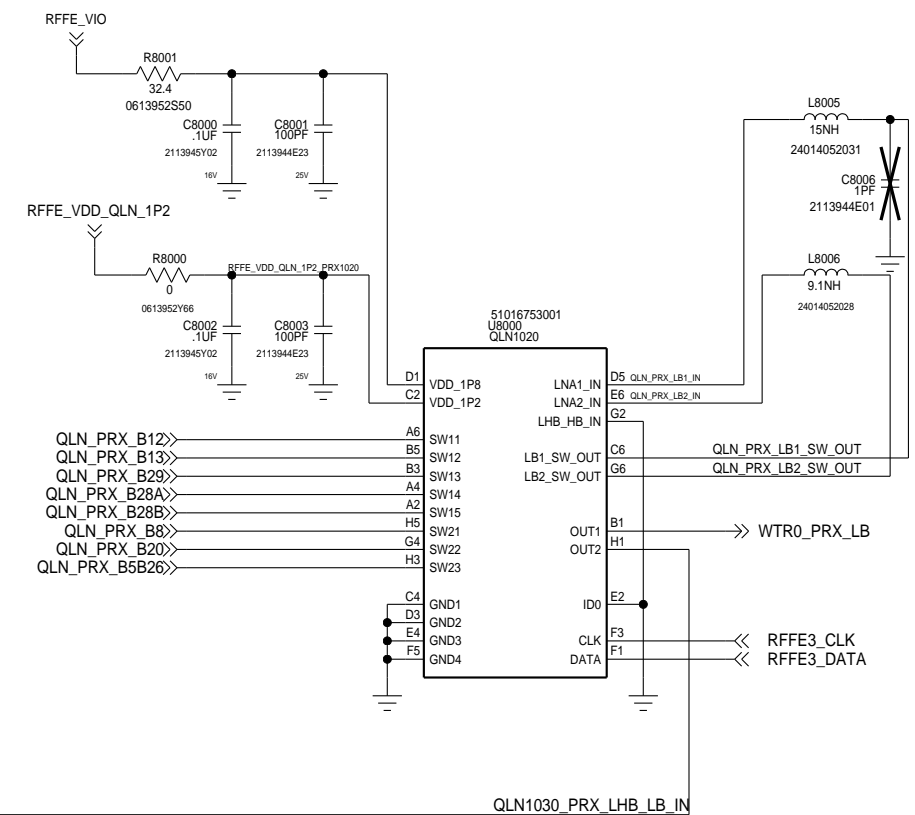
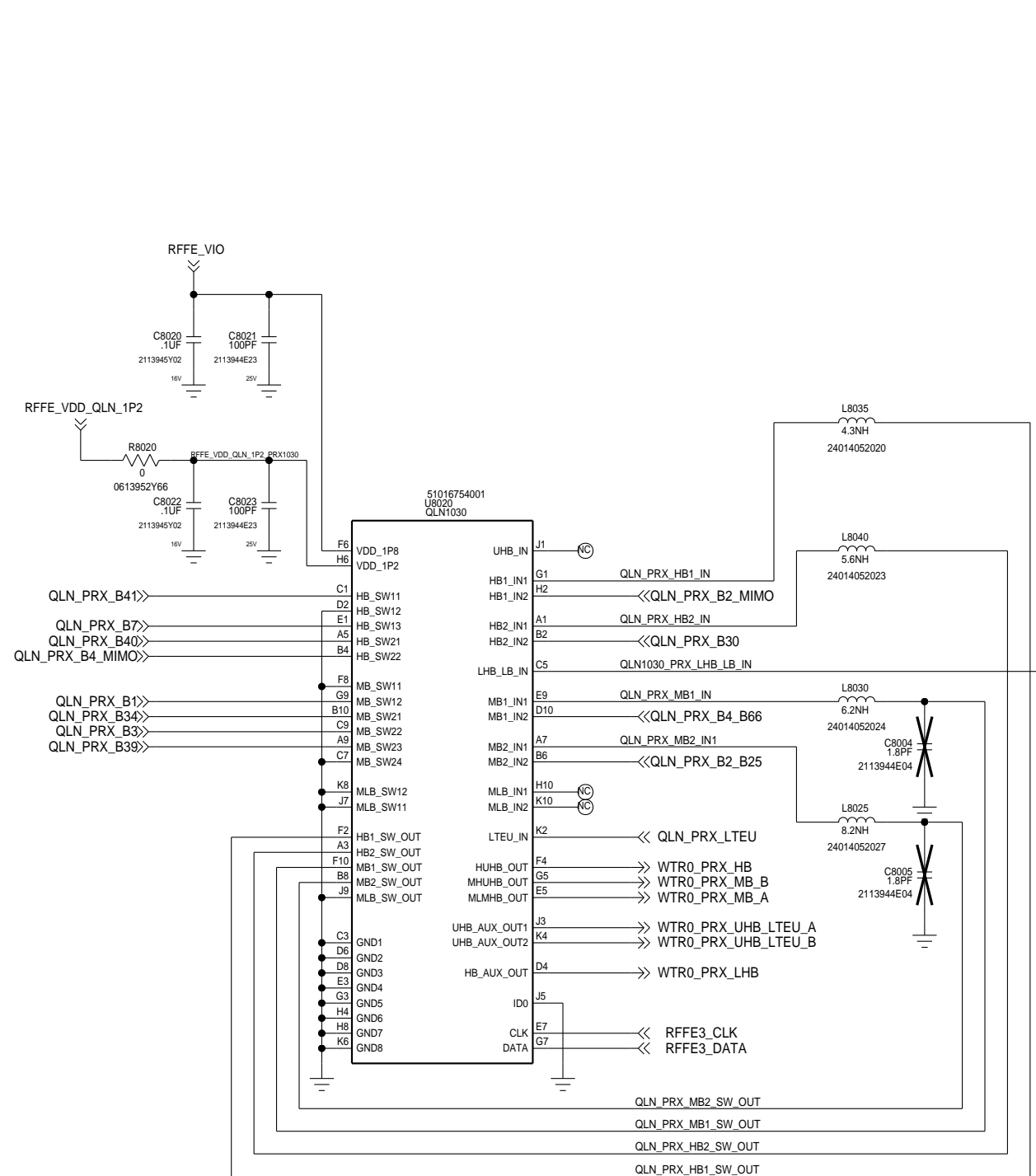
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APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:45 2017		PROJECT NAME B 8004657001_a.cpm	
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			PAGE 87 OF 91

RFFE: PRX LNA

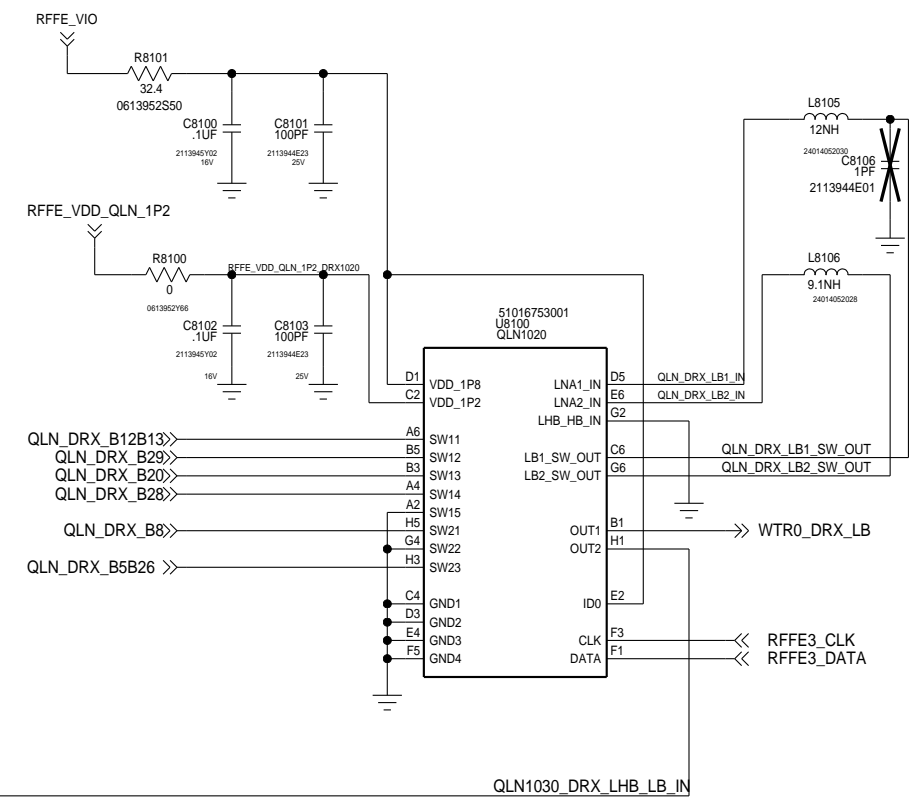
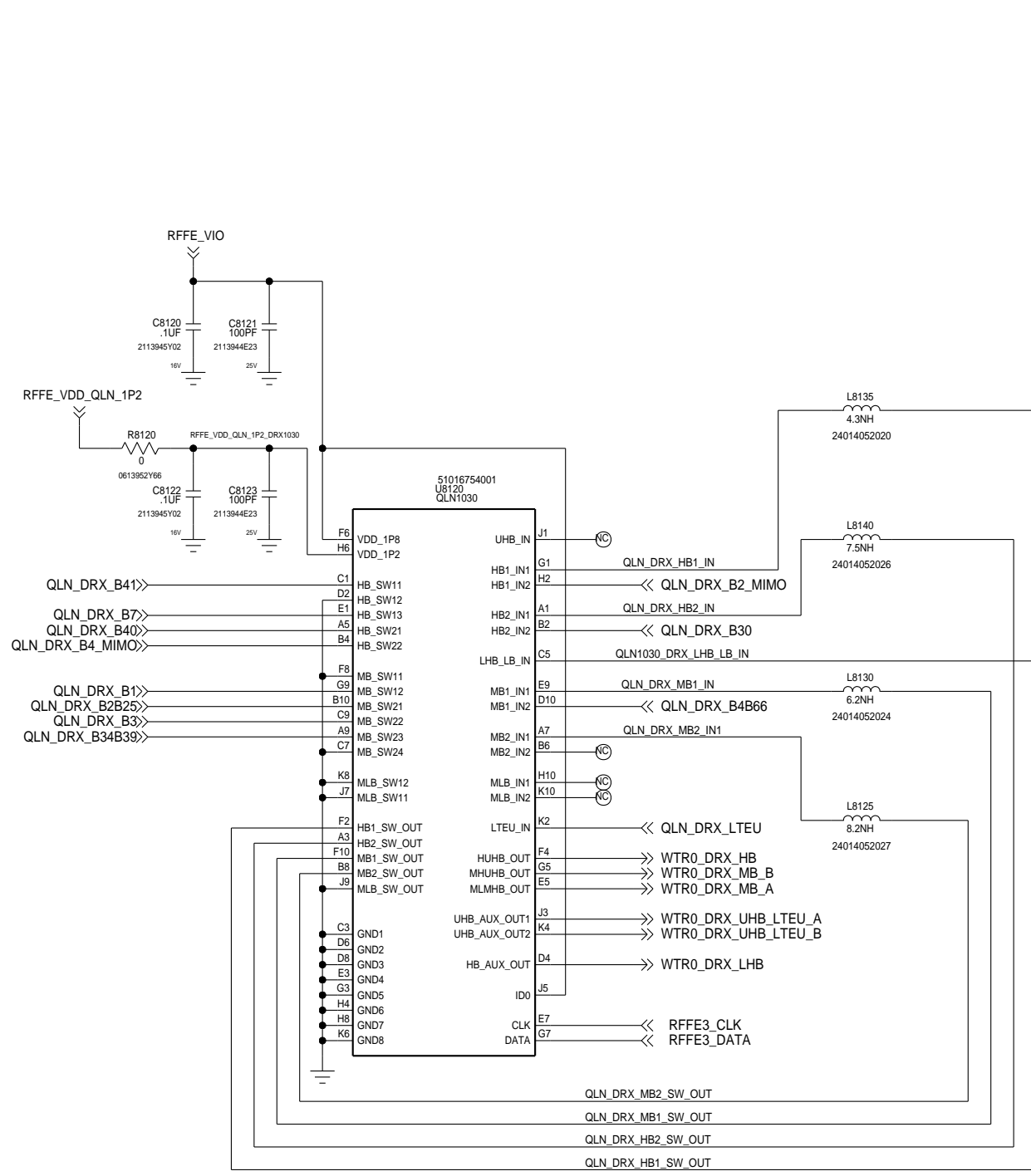
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APPROVALS		 MOTOROLA MOBILE DEVICES	
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CAD FILE NAME:		PAGE 88 OF 91	

RFFE: DRX LNA

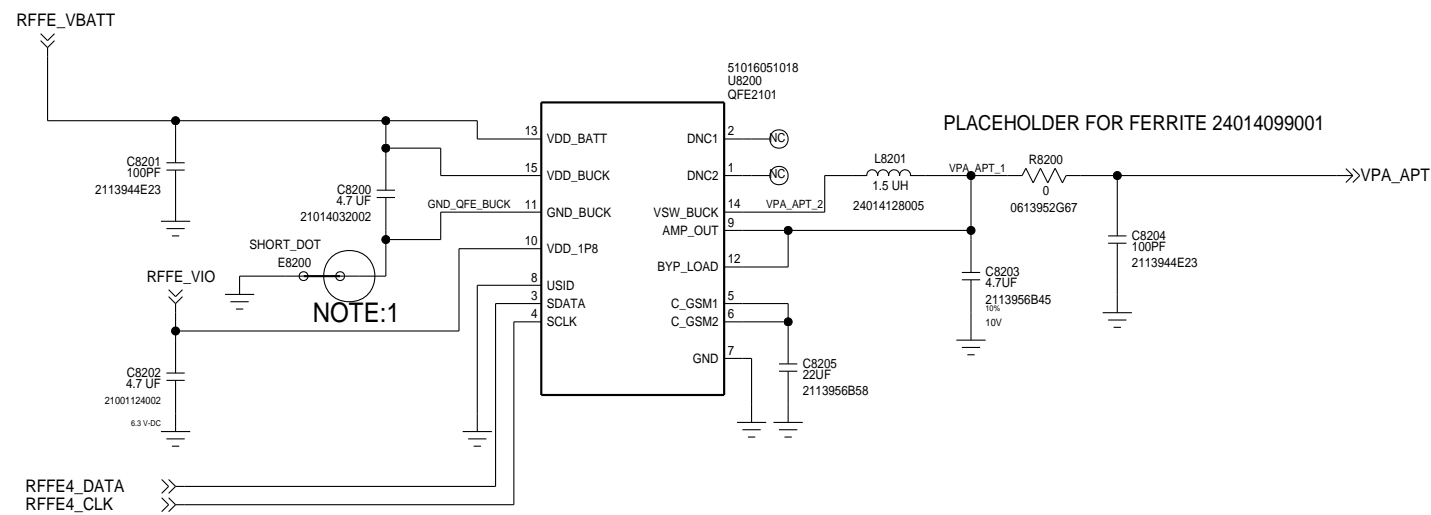
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APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: MOTOROLA Fri Mar 31 09:16:49 2017		rffe_skylite	
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CAD FILE NAME:		PAGE 89 OF 91	

RFFE: QFE2101

REFDES: 8200-8299

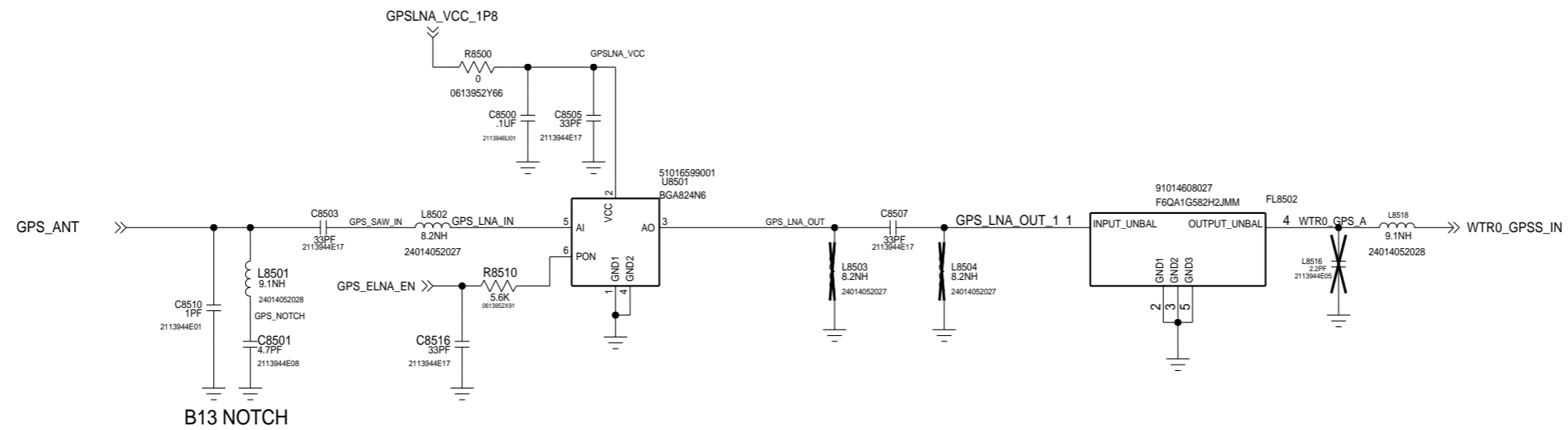


DO NOT VIA DIRECTLY TO GROUND PLANE. KEEP ISOLATED ON SURFACE LAYER;

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Fri Mar 31 09:16:43 2017		rffe_skylite	
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		CAD FILE NAME:	
		PAGE 90 OF 91	

RFFE: GPS

REF 8500-8599



APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Fri Mar 31 09:16:42 2017		rffe_skylite	
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CAD FILE NAME:			PAGE 91 OF 91