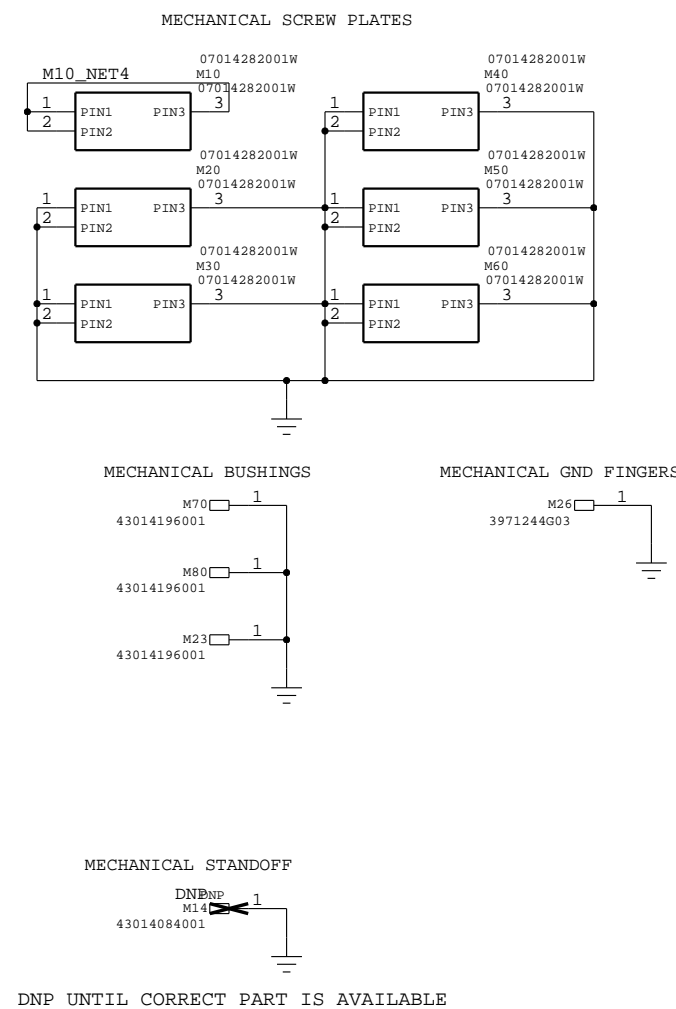
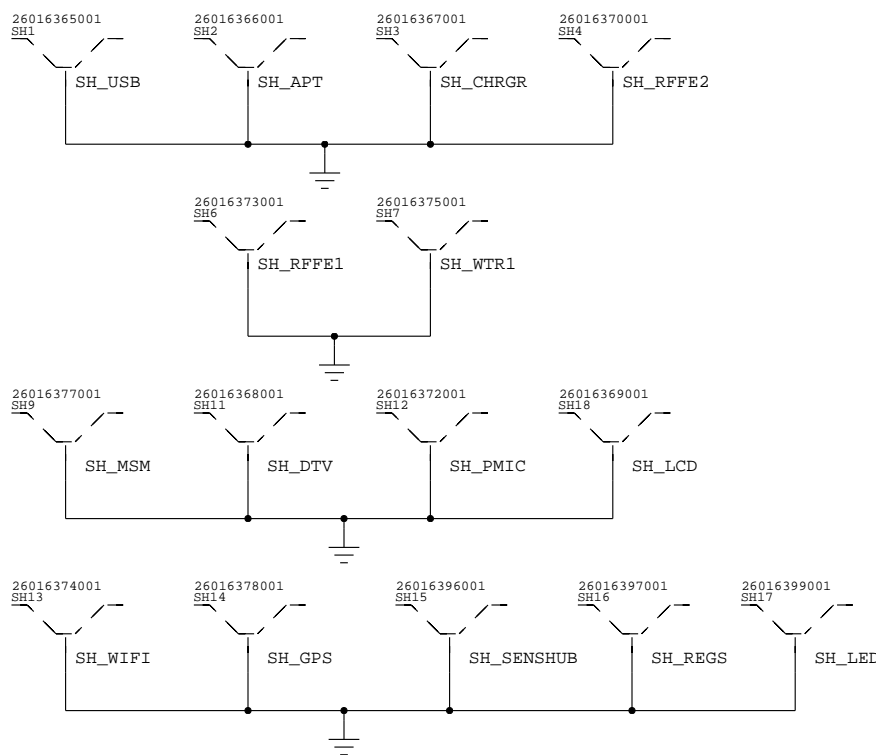


CALLISTO A ME/SHIELDS

CALLISTO REFERENCE DESIGNATOR RANGES BY BLOCK

- 000 - 499: ANTENNA
- 500 - 599: USER INPUT
- 600 - 799: POWER
- 1000-2999:
- 1600-1699: MEMORY
- 2000-2999: PM8916
- 3000-3199: WTR4905
- 4000-4499: CONNECTIVITY
- 4500-4999: AUDIO FE
- 5300-5399: DISPLAY
- 5500-5999: CAMERA
- 6000-6999: XMCS
- 7000-7799, 8000-8020: RFFE
- 7800-7899:
- 9000-9999: PRODUCT-SPECIFIC (FILTERING, 100PF CAPS)



DNP UNTIL CORRECT PART IS AVAILABLE

MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

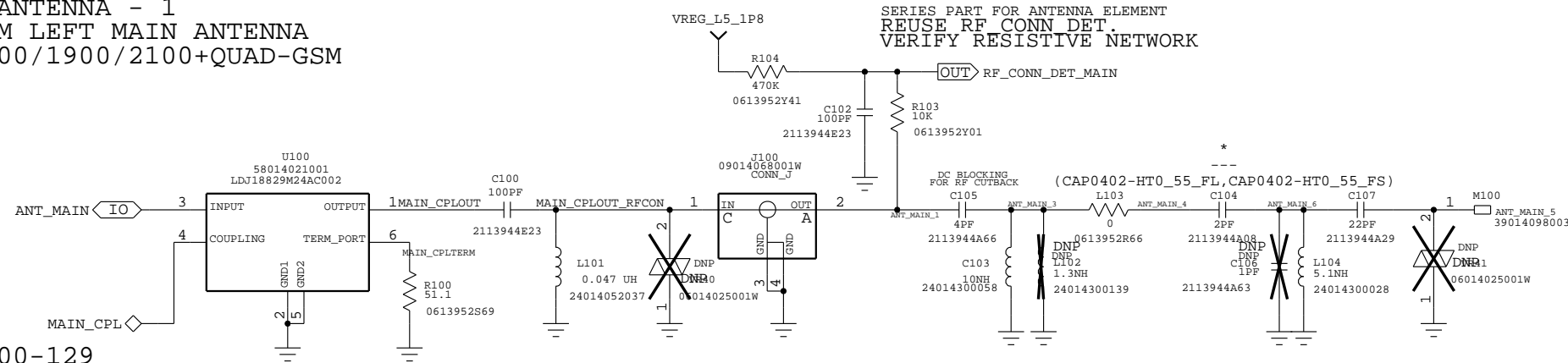
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ENGINEER:		BLOCK TITLE:	
LAST MODIFIED BY: Mon May 11 16:30:05 2015		84016407	
MOTOROLA CONFIDENTIAL RESTRICTED THE DRAWING ON THIS PRINT AND INFORMATION THEREWITH ARE PROPRIETARY TO MOTOROLA AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT MOTOROLA'S CONSENT. © COPYRIGHT, MOTOROLA. THIS DOES NOT IMPLY PUBLICATION		PROJECT NAME	REV
		B 84016407.cpm	01
CAD FILE NAME:		PAGE 2 OF 47	

ANTENNAS

REF 000-499

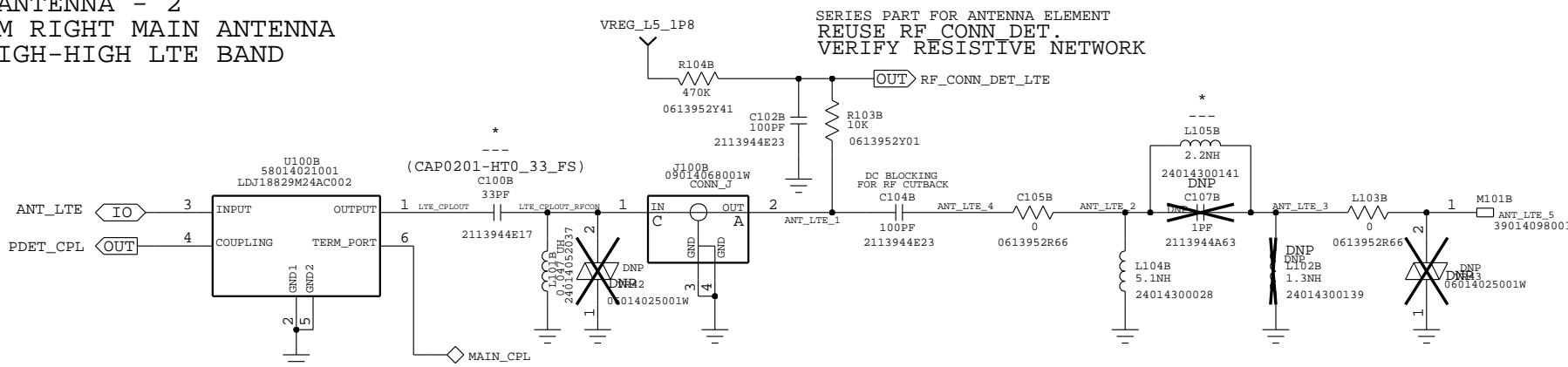
REVISIONS				
REV	ECN	DESCRIPTION	MADE BY	APPROVED

MAIN ANTENNA - 1
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850/900/1900/2100+QUAD-GSM



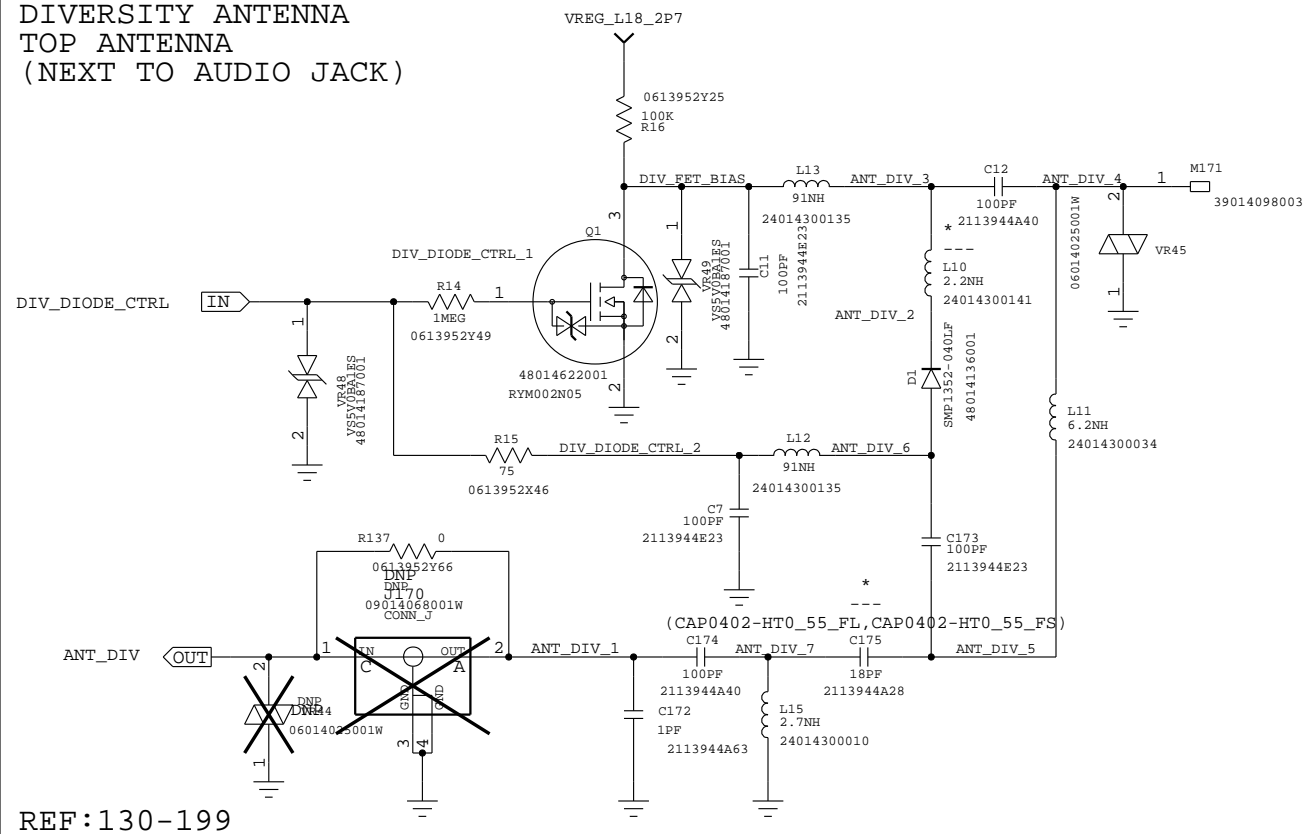
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MAIN ANTENNA - 2
BOTTOM RIGHT MAIN ANTENNA
LOW/HIGH-HIGH LTE BAND



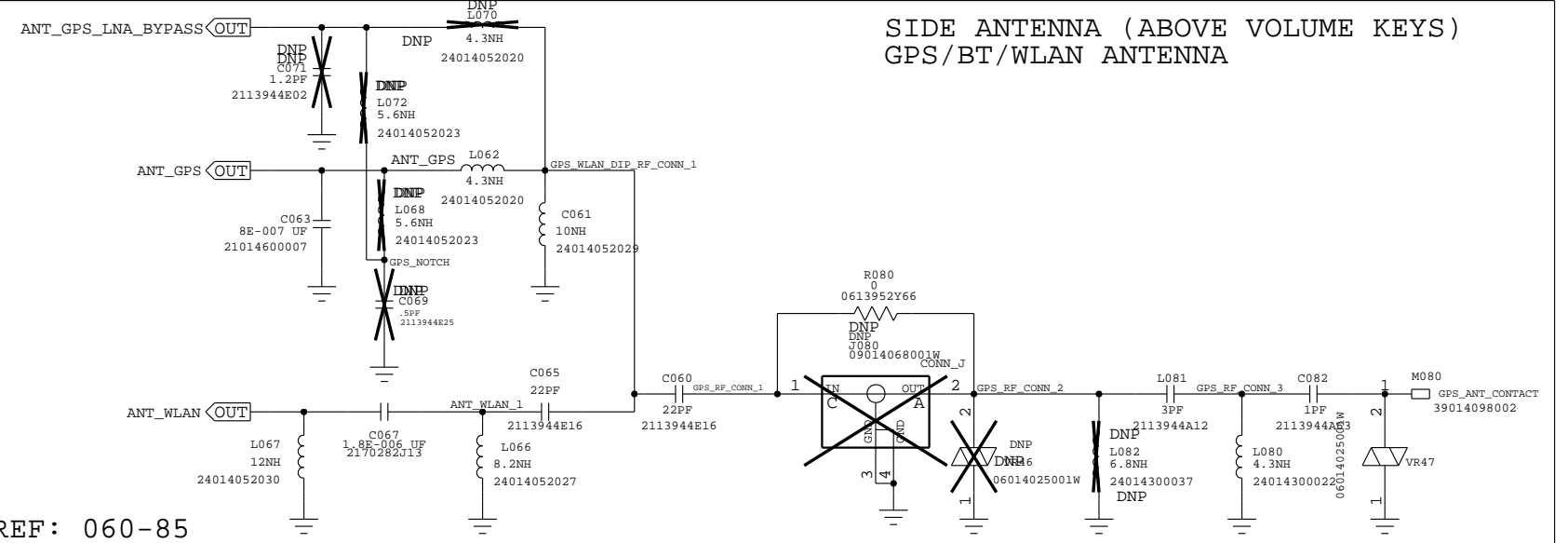
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DIVERSITY ANTENNA
TOP ANTENNA
(NEXT TO AUDIO JACK)



REF:130-199

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



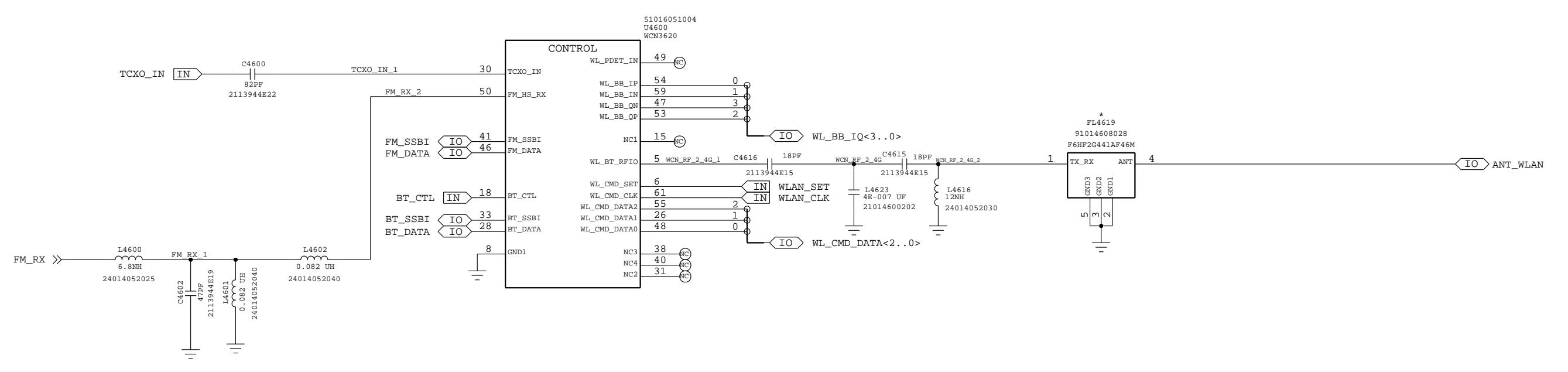
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LEAD ENGINEER:	DATE:		SIZE B
ASSY NUMBER:	PCB FILE NAME:	PAGE 3 OF 47	

WCN3620 RF/CTRL

REF 4600-4699

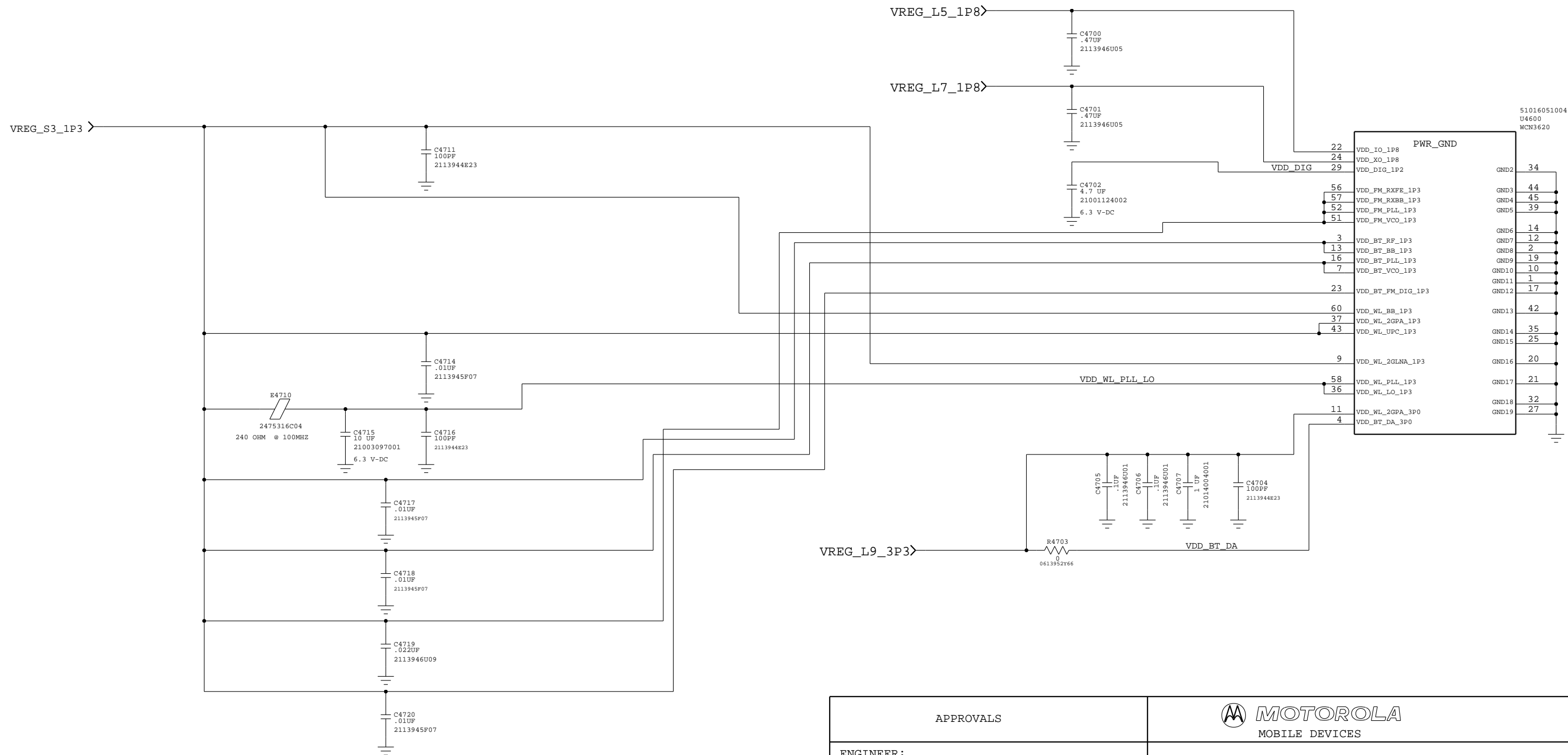


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		CAD FILE NAME :	PAGE 4 OF 47

WCN3620 POWER

REF 4700-4749

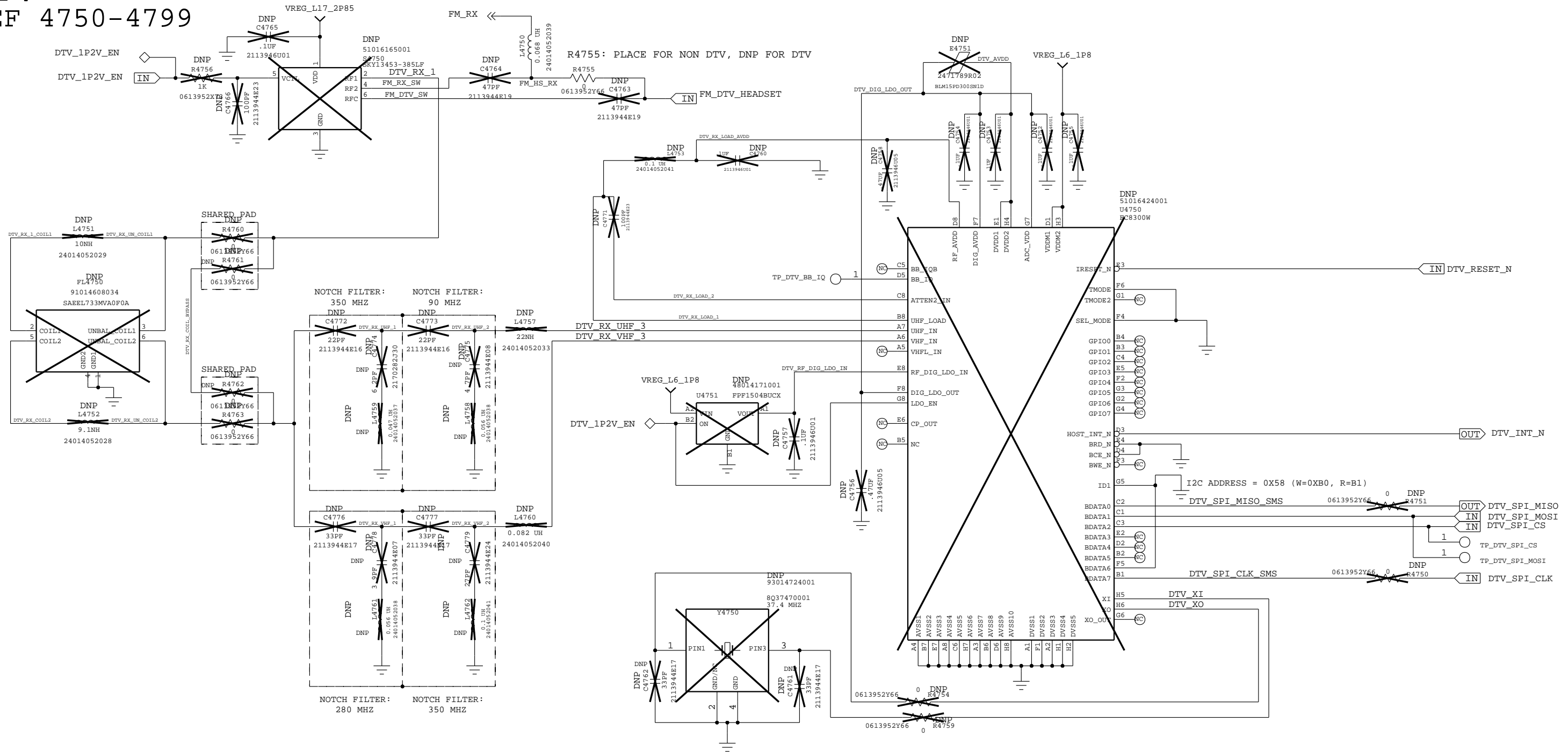


BASED ON 80-WL006-44 REV C

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		CAD FILE NAME :	PAGE 5 OF 47

DTV

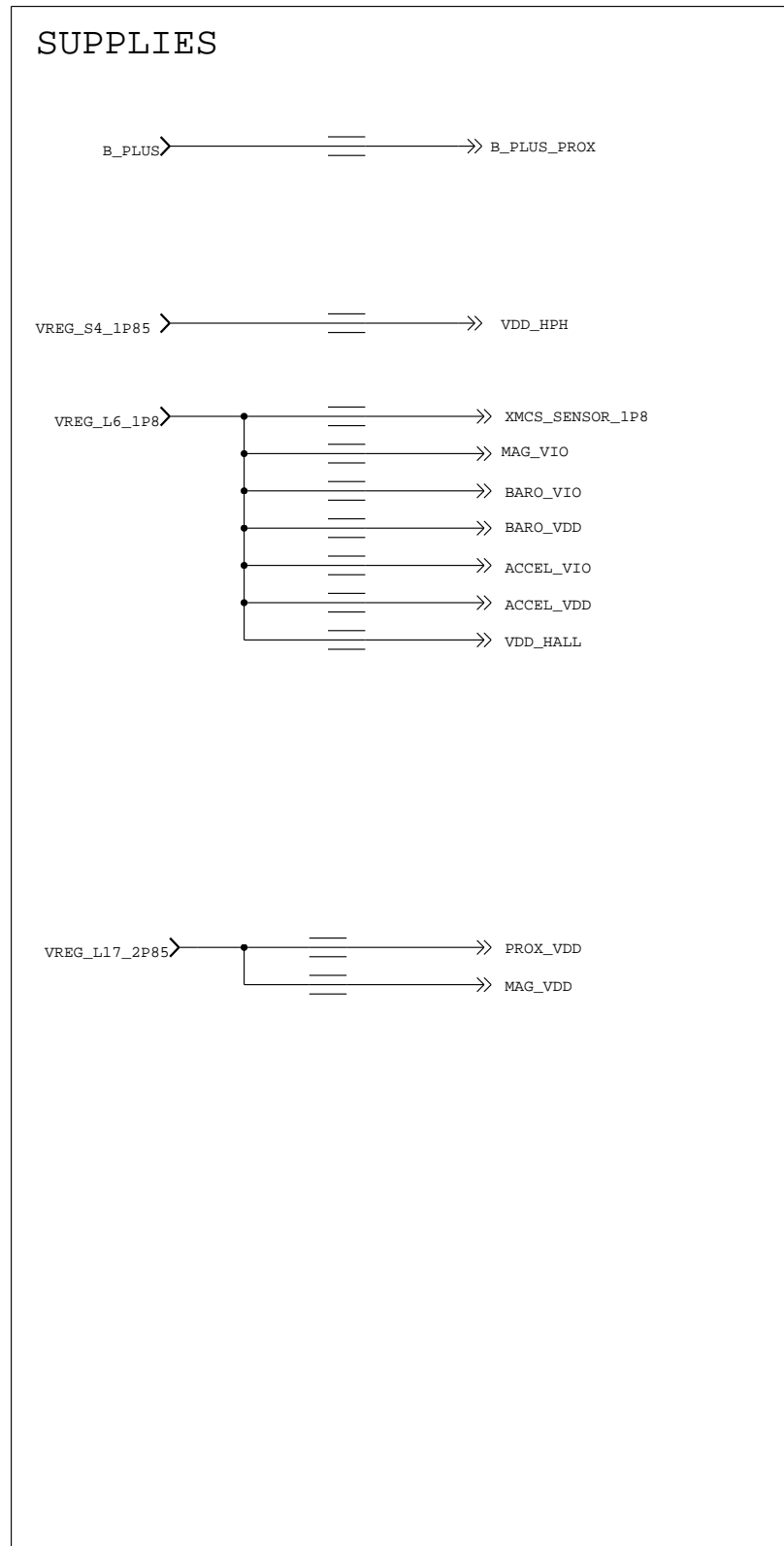
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		CAD FILE NAME :	PAGE 6 OF 47

XMCS: POWER

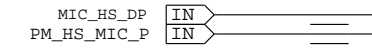
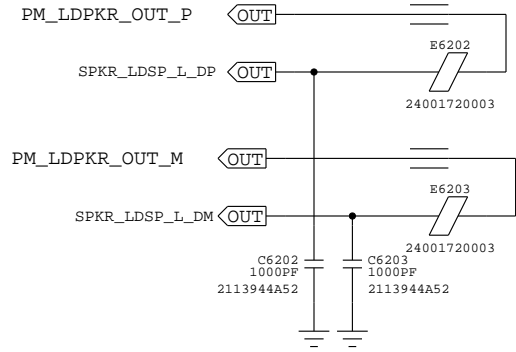
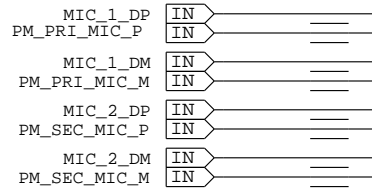
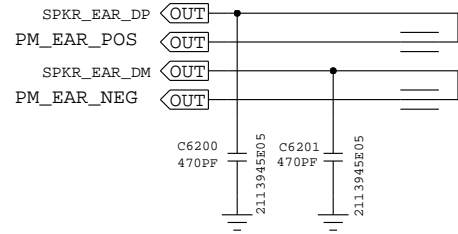
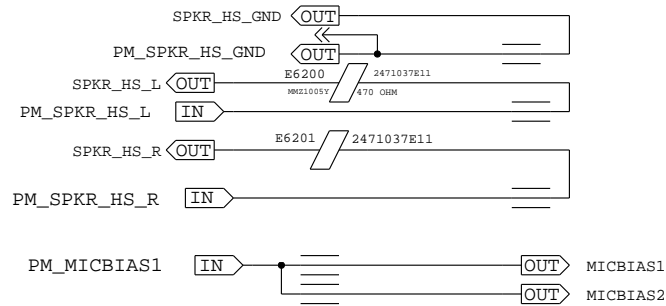
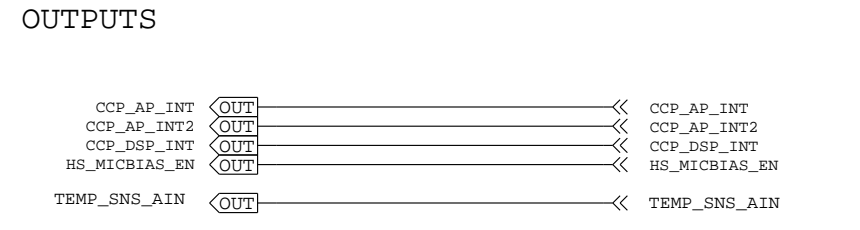
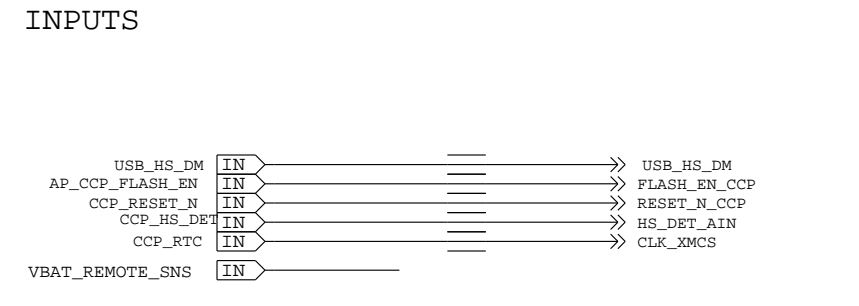
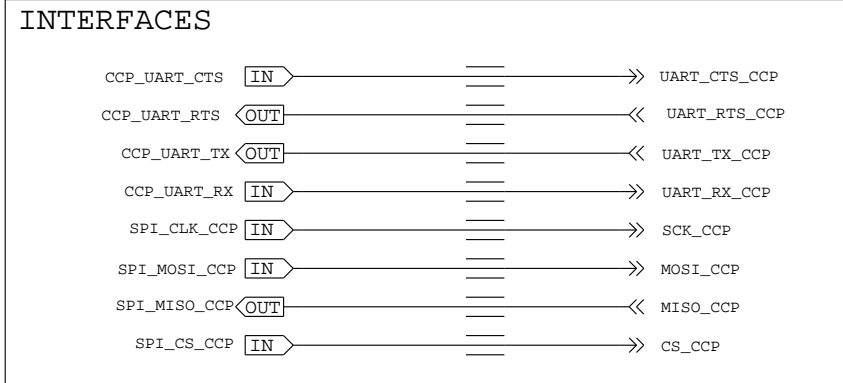
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		CAD FILE NAME:	
		PAGE 7 OF 47	

XMCS: PORTS

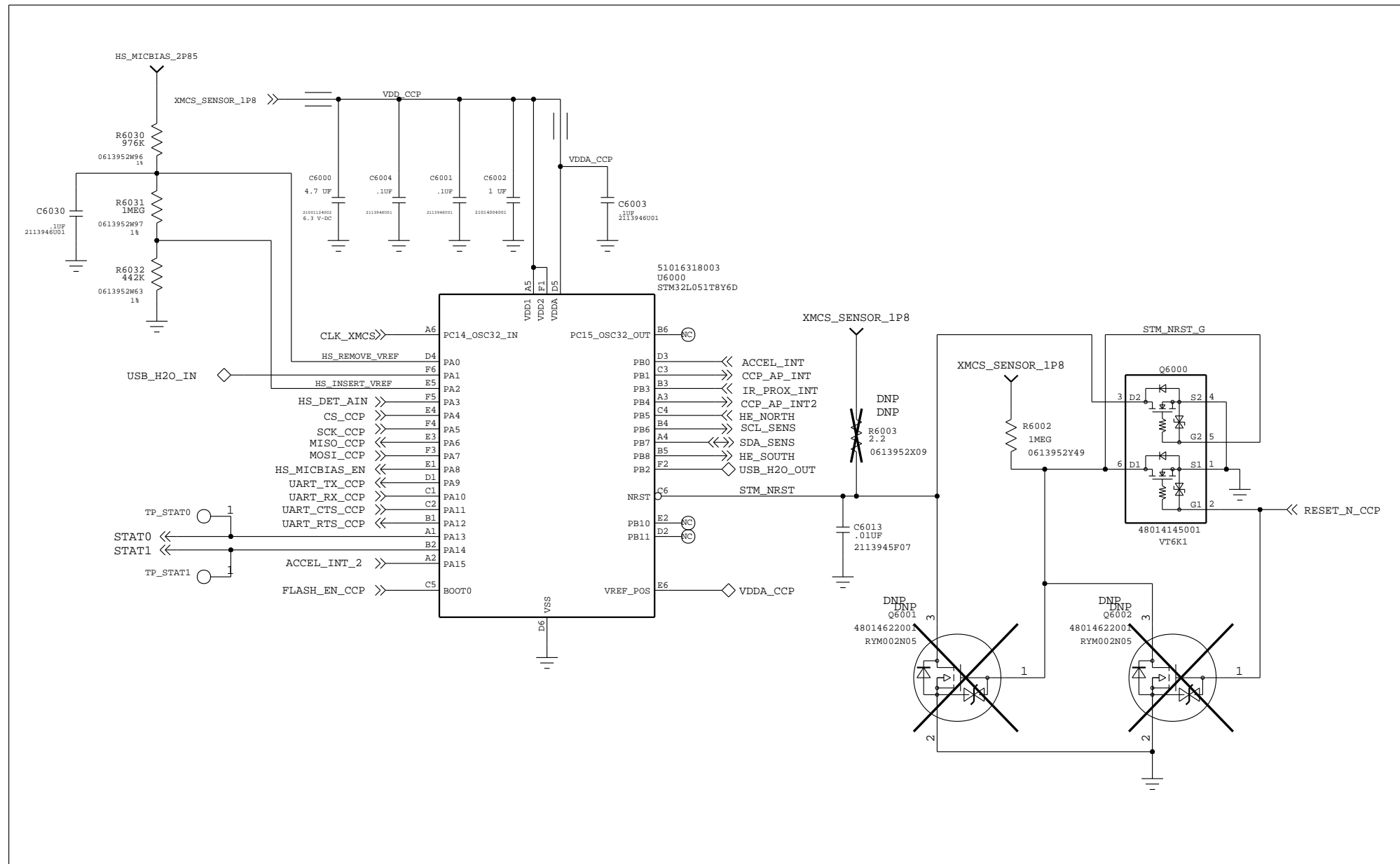
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		B 84016407.cpm	01
CAD FILE NAME:		PAGE 8 OF 47	

XMCS: CCP

REF: 6000-6049



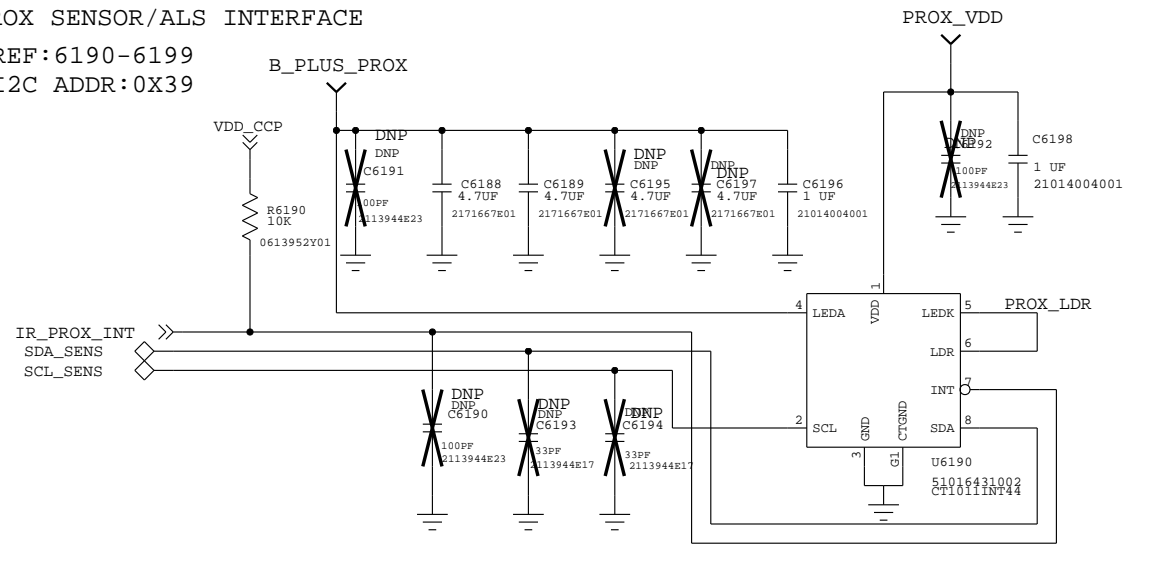
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BLOCK TITLE: xmcs	
PROJECT NAME 84016407.cpm	REV 01
CAD FILE NAME:	
PAGE 9 OF 47	

SENSORS

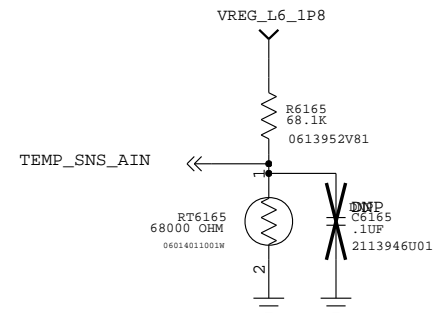
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PROX SENSOR/ALS INTERFACE

REF: 6190-6199
I2C ADDR: 0X39

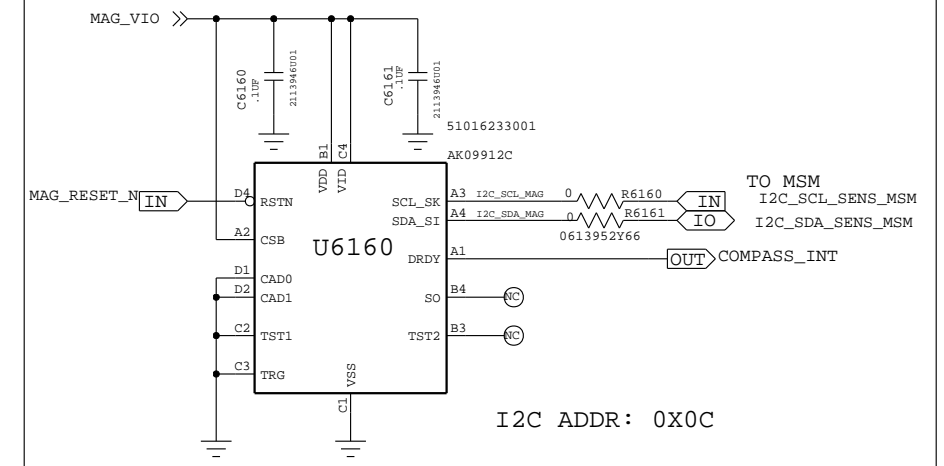


BOARD TEMP SENSOR



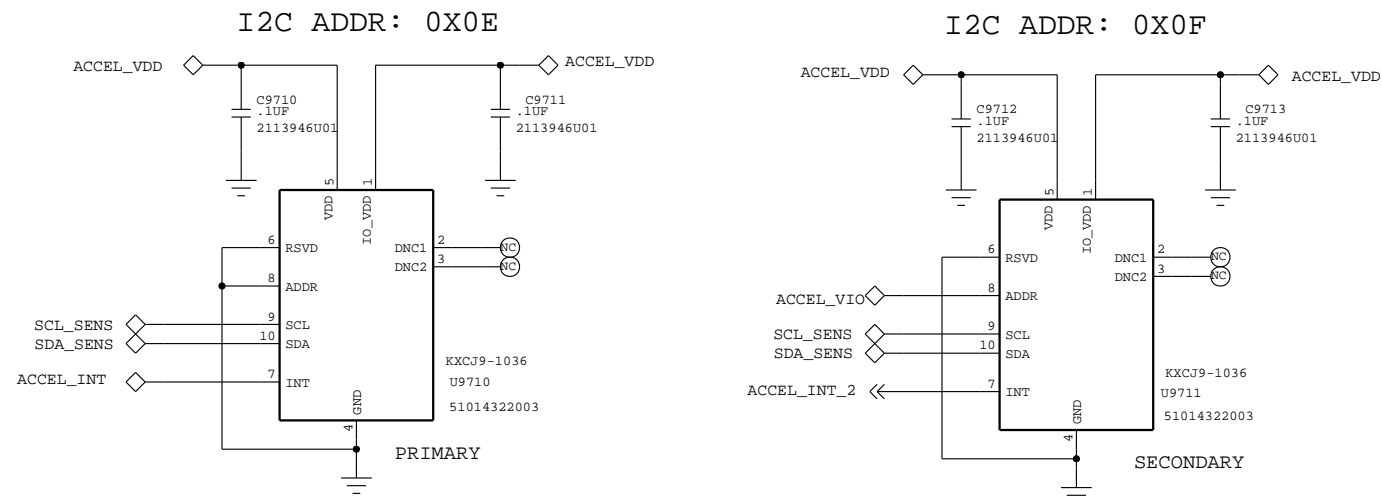
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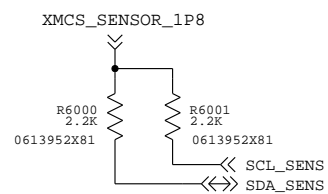
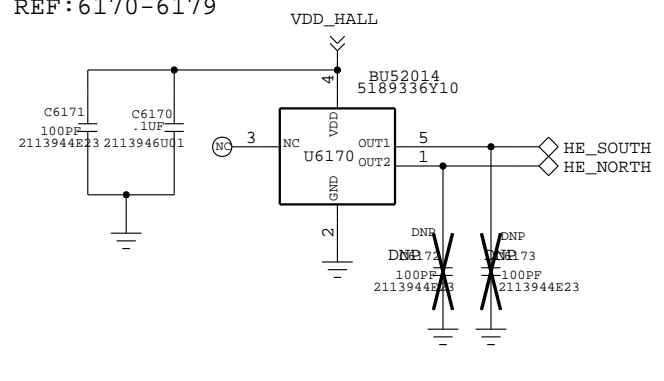
ACCELEROMETER

REF: 9710-9719



HALL EFFECT

REF: 6170-6179



JOHN GORSICA/NATE CONNELL
APPROVALS



ENGINEER: C HERNANDEZ

BLOCK TITLE:

LAST MODIFIED BY: C HERNANDEZ
Mon May 11 16:30:25 2015

xmcs

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B	PROJECT NAME	REV
	84016407.APRAGOOCHIE	01

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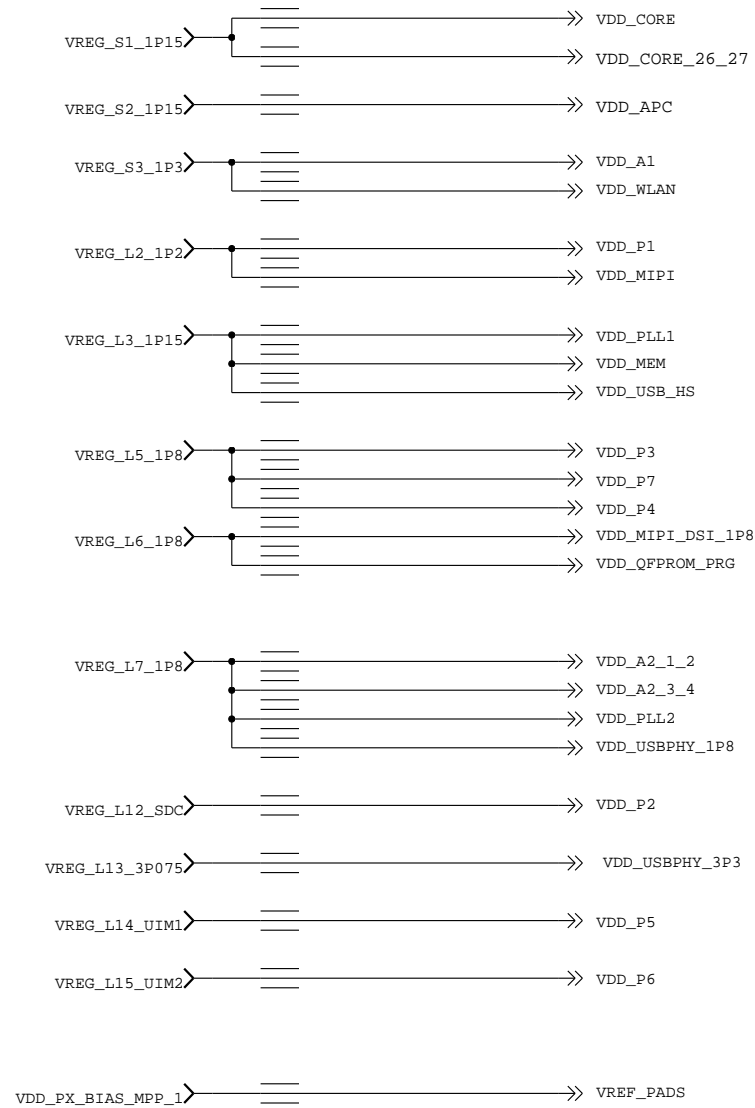
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PAGE 10 OF 47

MSM: POWER

REF: 1000-1999

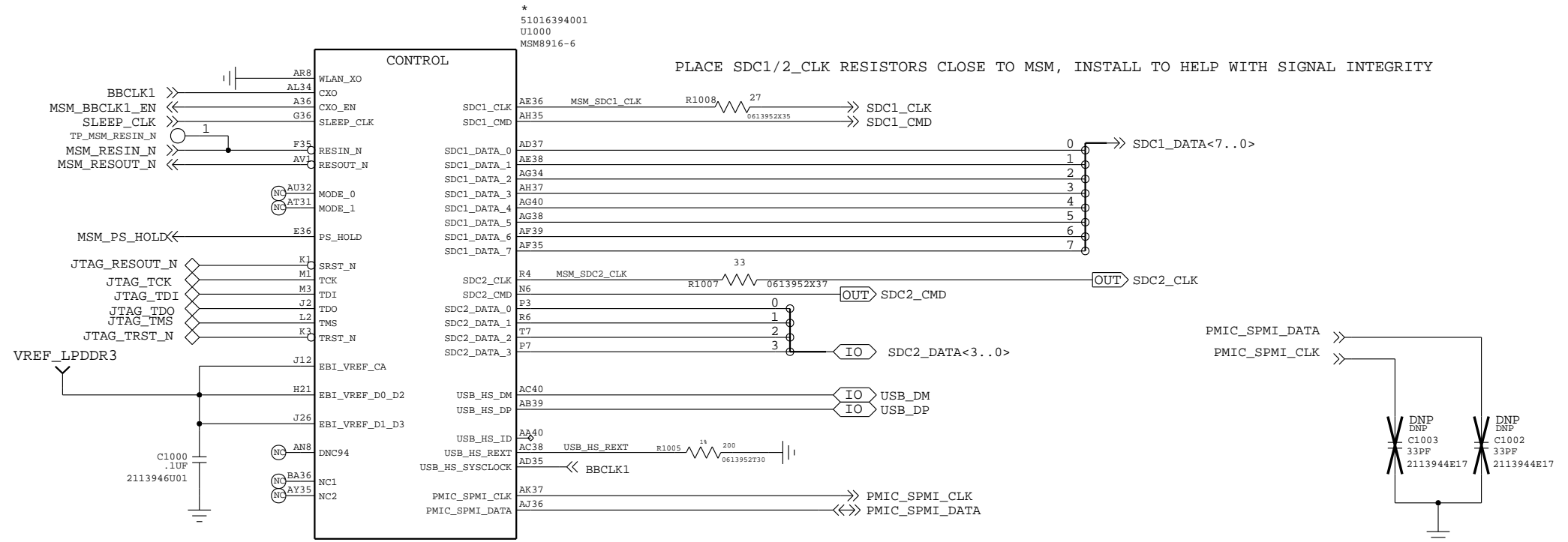
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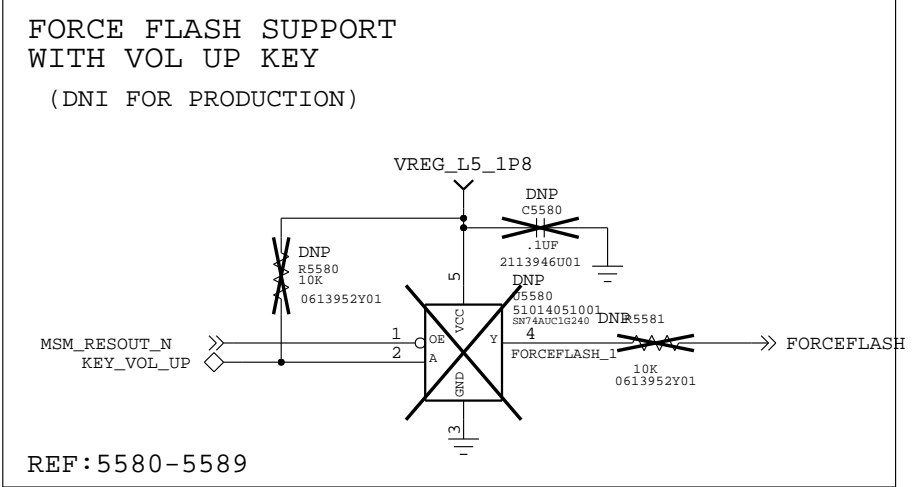
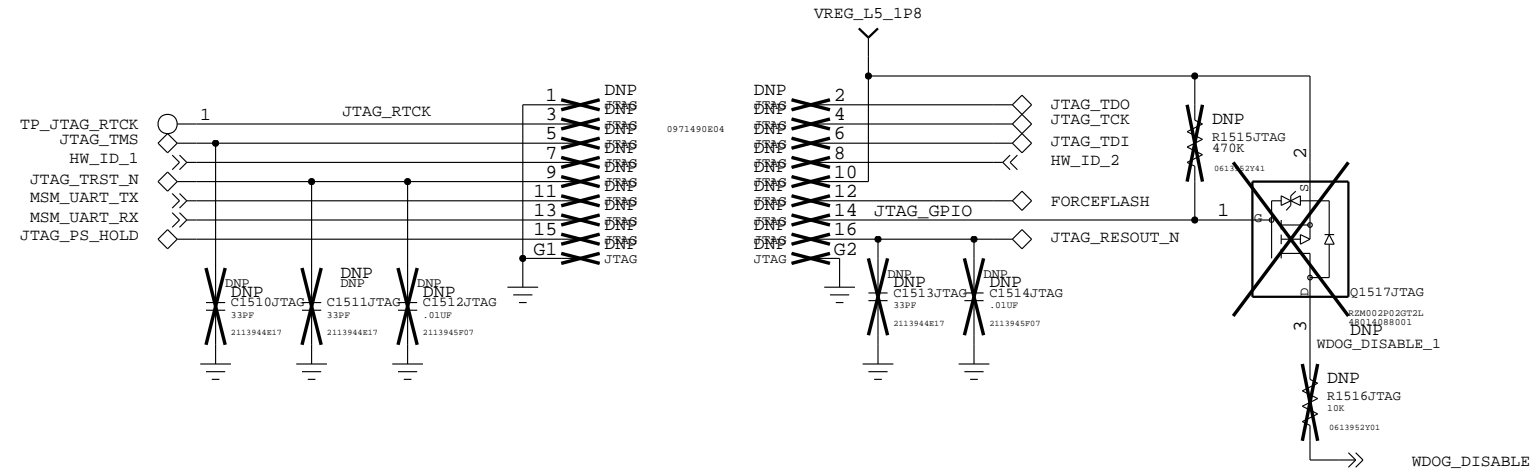
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CAD FILE NAME:			PAGE 11 OF 47

MSM: CTRL

REF 1000-1099



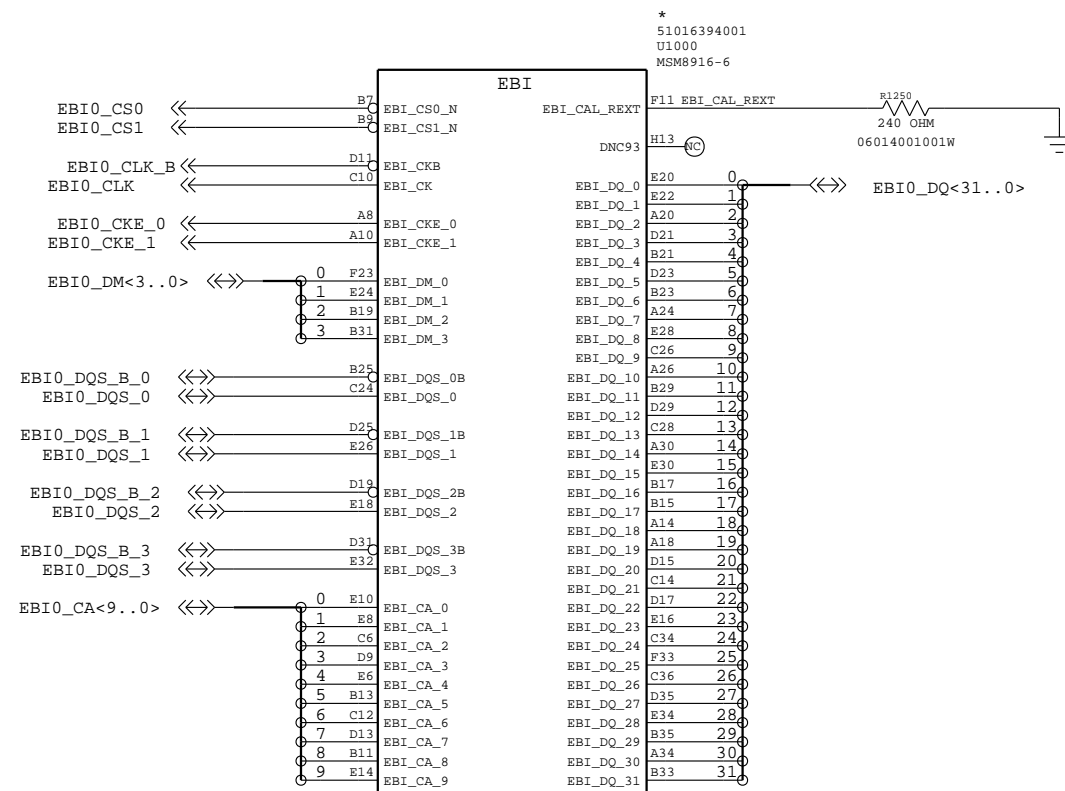
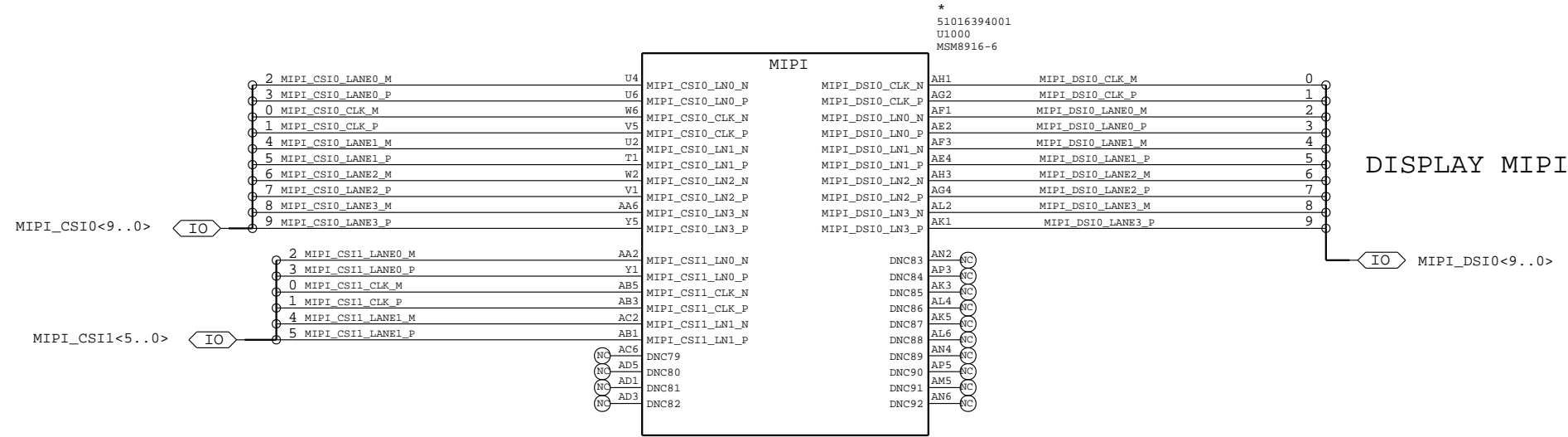
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APPROVALS		MOTOROLA MOBILE DEVICES	
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		B 84016407.cpm	01
CAD FILE NAME :		PAGE 12 OF 47	

MSM: MIPI/DSI/CSI/EBIO

REF 1200-1299

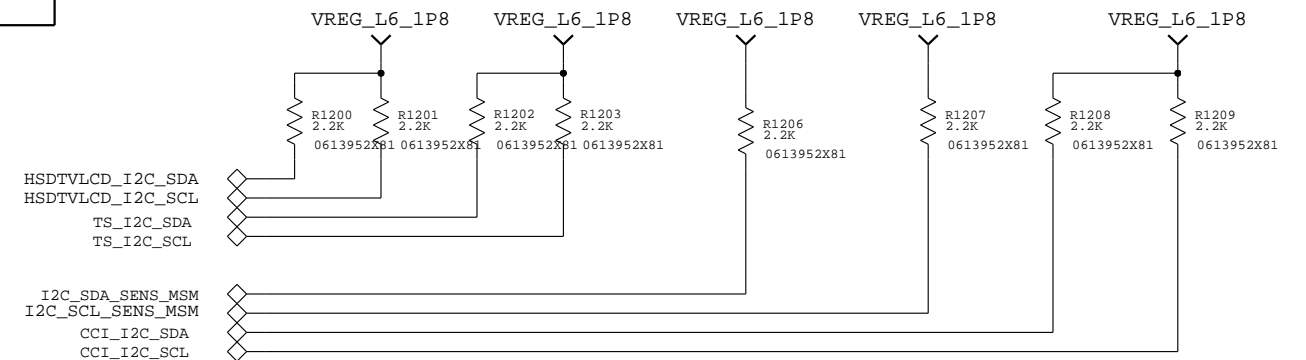
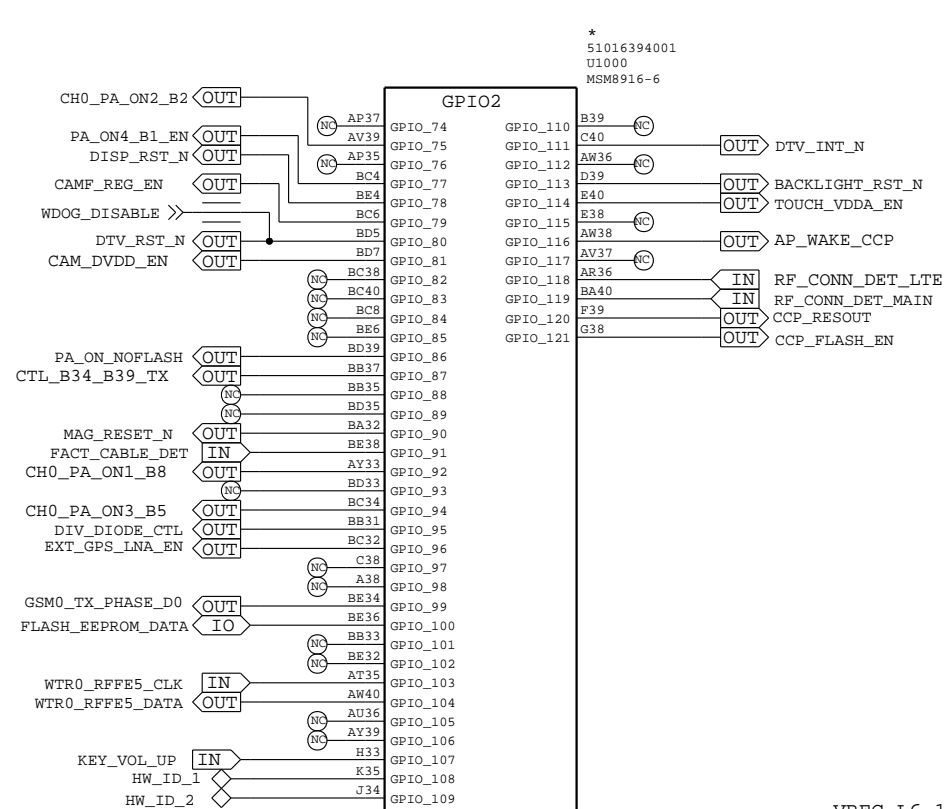
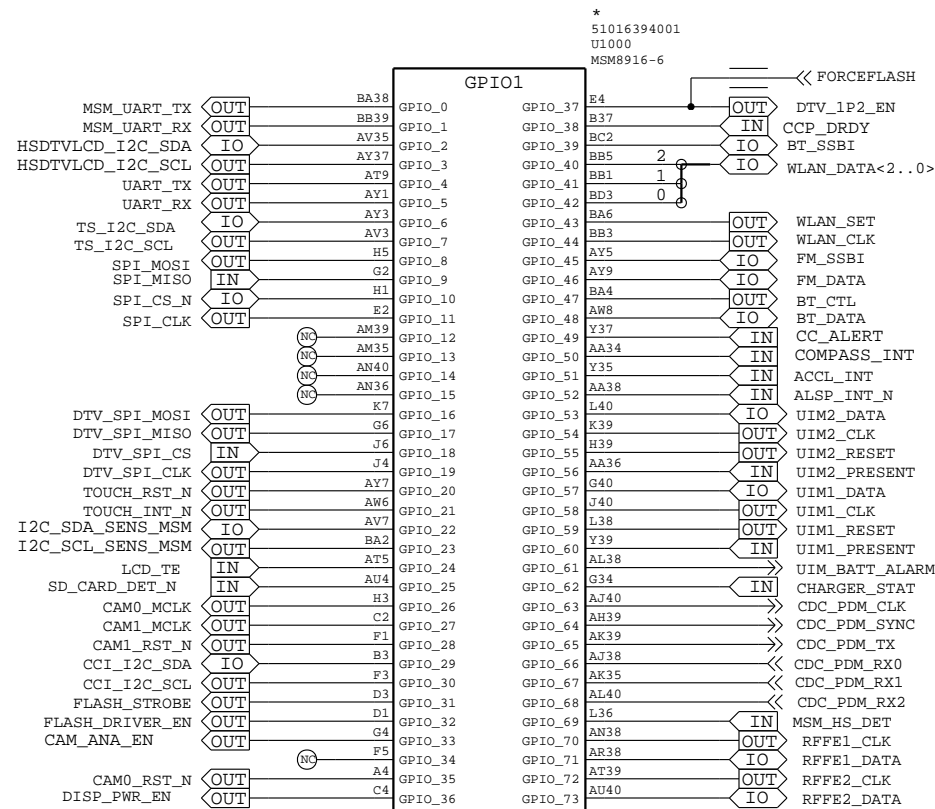


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Mon May 11 16:30:40 2015			
MOTOROLA CONFIDENTIAL RESTRICTED		PROJECT NAME	
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		REV 01	
		PAGE 13 OF 47	

MSM: GPIO (0-101)

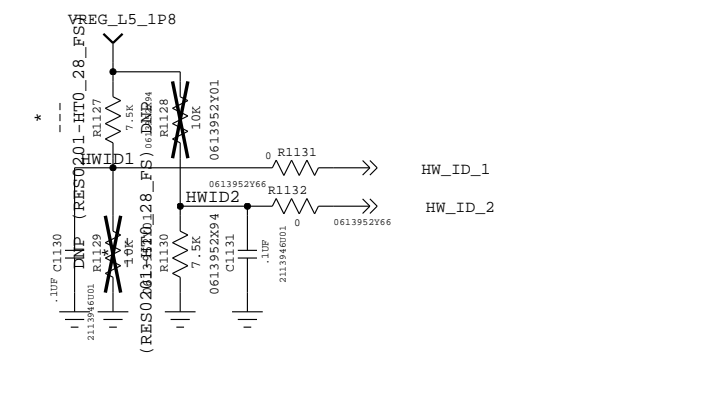
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MOT BOARD ID

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

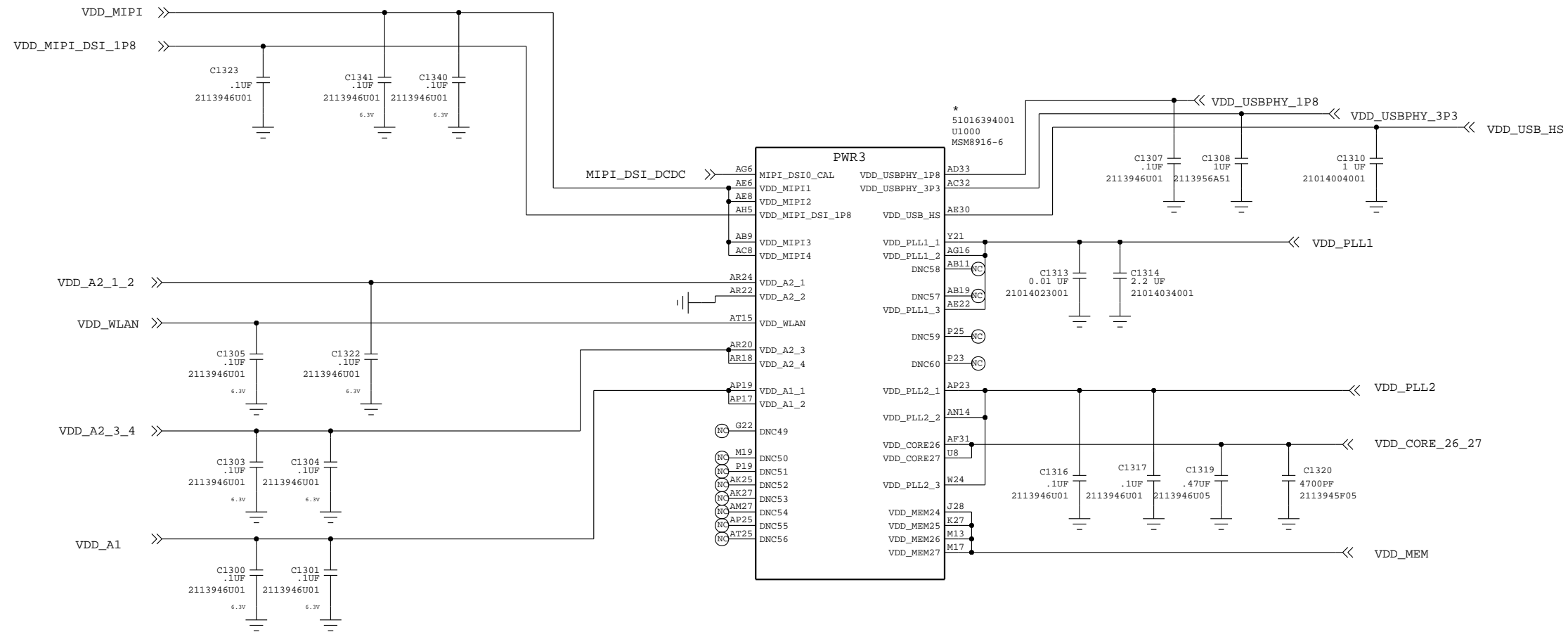


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CAD FILE NAME:		PAGE 14 OF 47	

8 7 6 5 4 3 2 1

MSM: PWR1

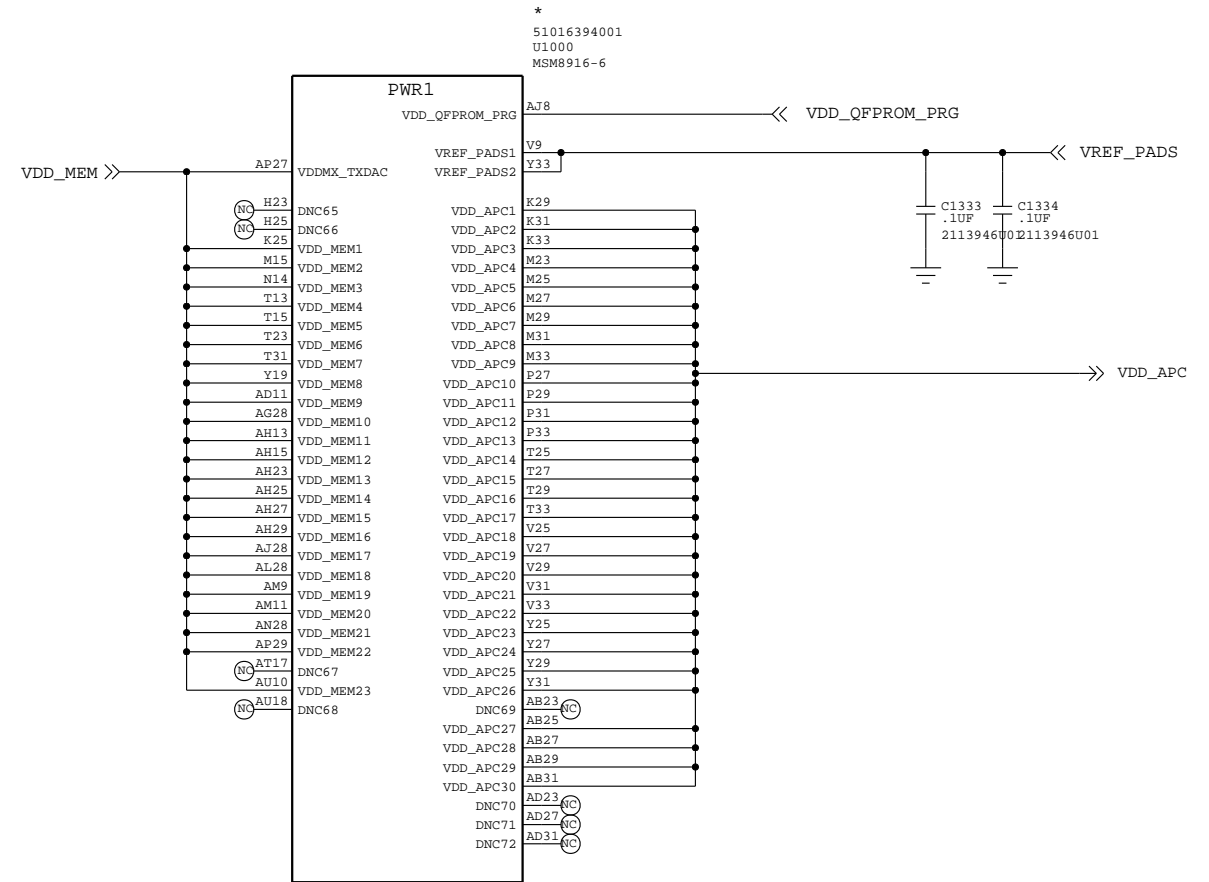
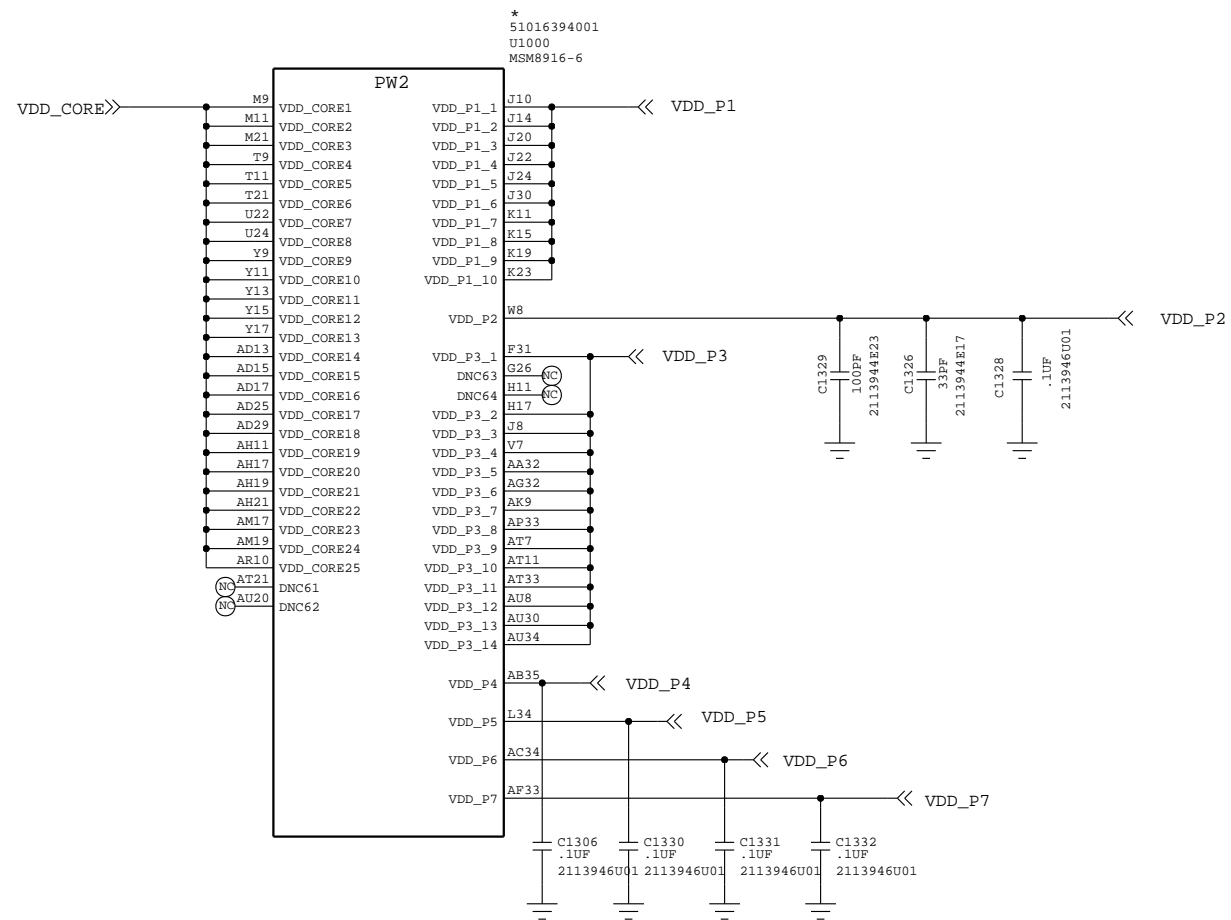
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		CAD FILE NAME :	
		PAGE 15 OF 47	

MSM: PWR2

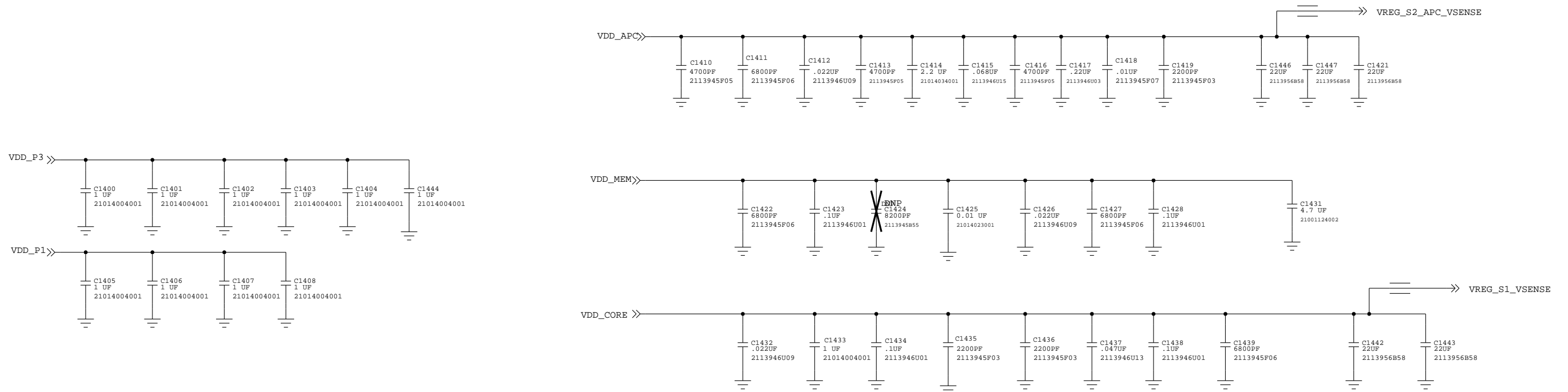
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		PAGE 16 OF 47	

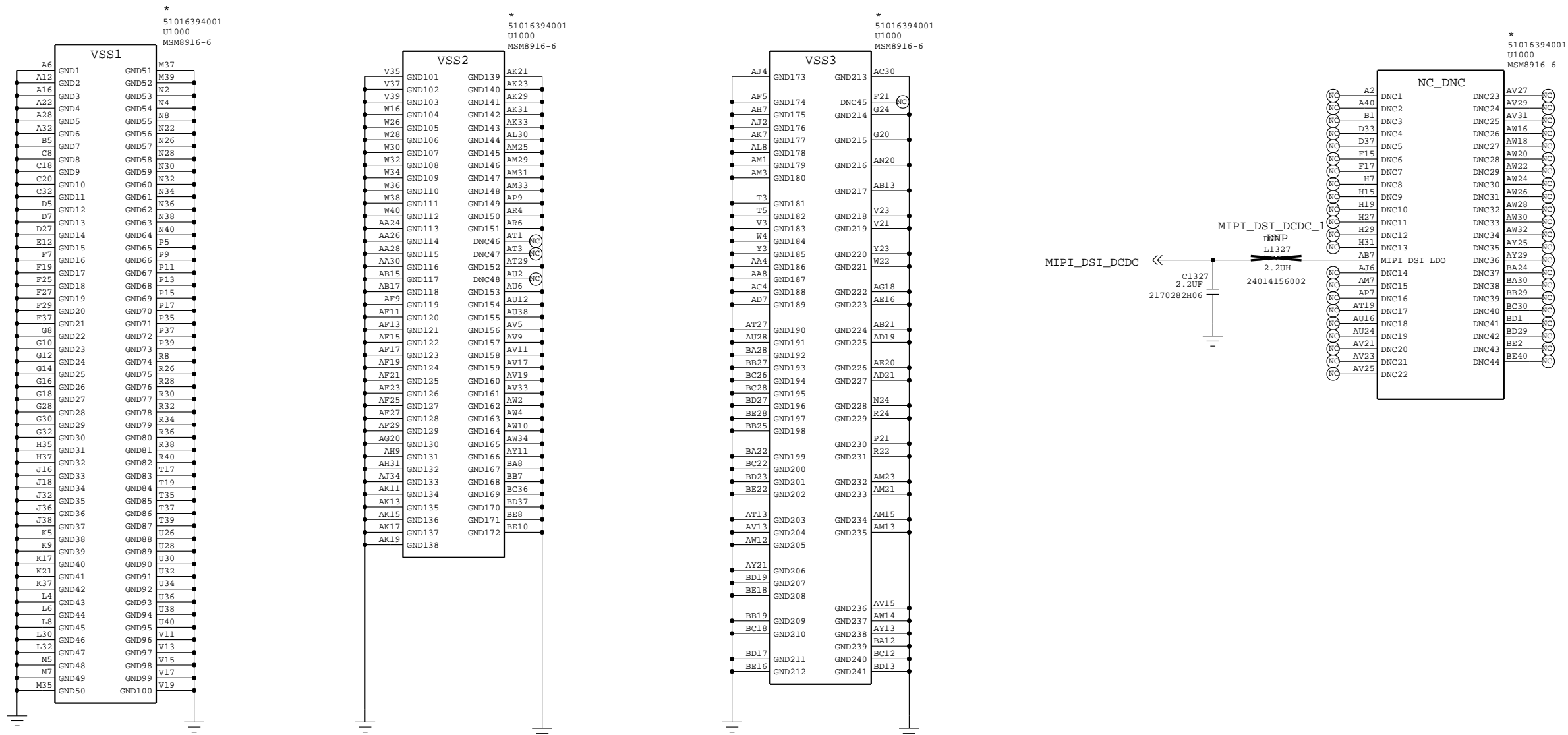
MSM: BYPASS CAPS

REF 1400-1499



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		CAD FILE NAME :	
		PAGE 17 OF 47	

MSM: GROUND



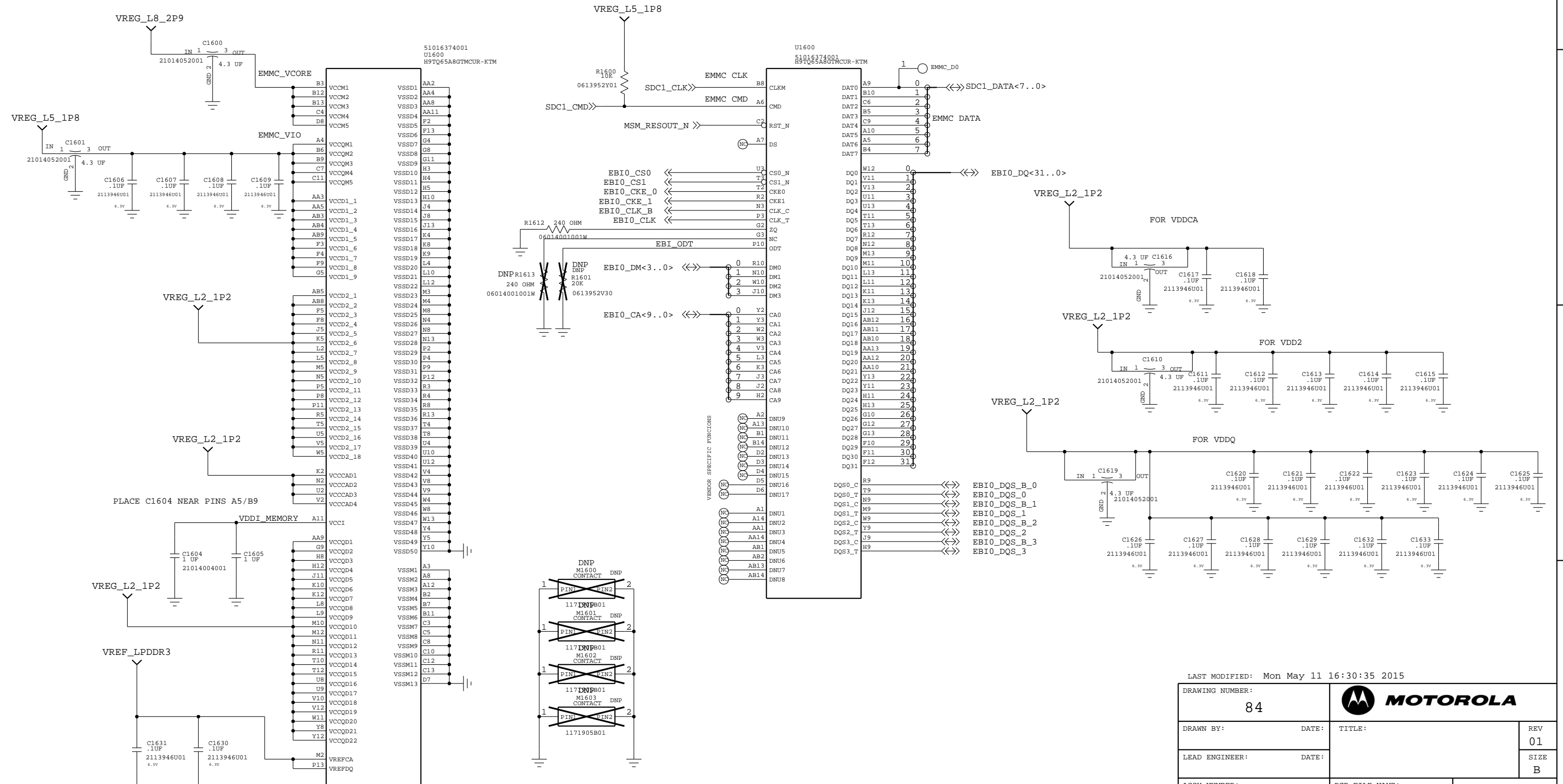
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		B 84016407.cpm	01
		CAD FILE NAME:	PAGE 18 OF 47

MEMORY MCP

REF: 1600-1699

MCP: 8GB NAND, 8GBIT LPDDR3

REVISIONS				
REV	ECN	DESCRIPTION	MADE BY	APPROVED



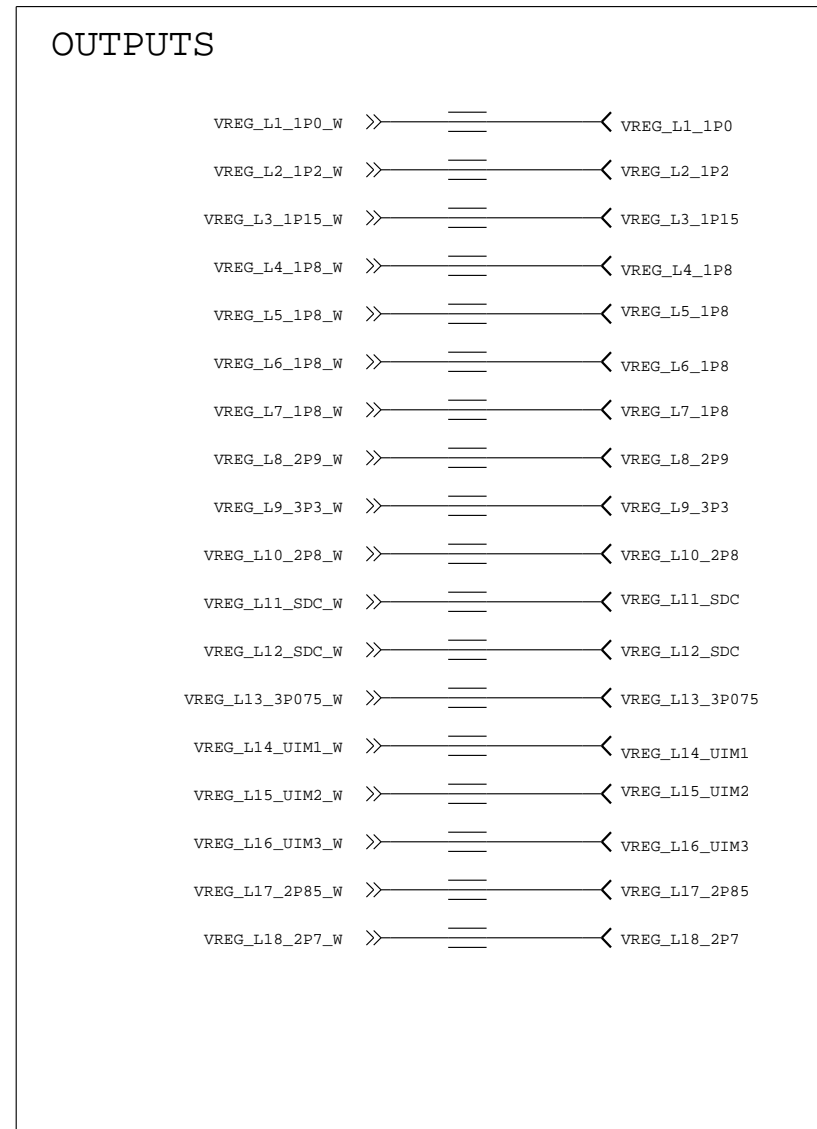
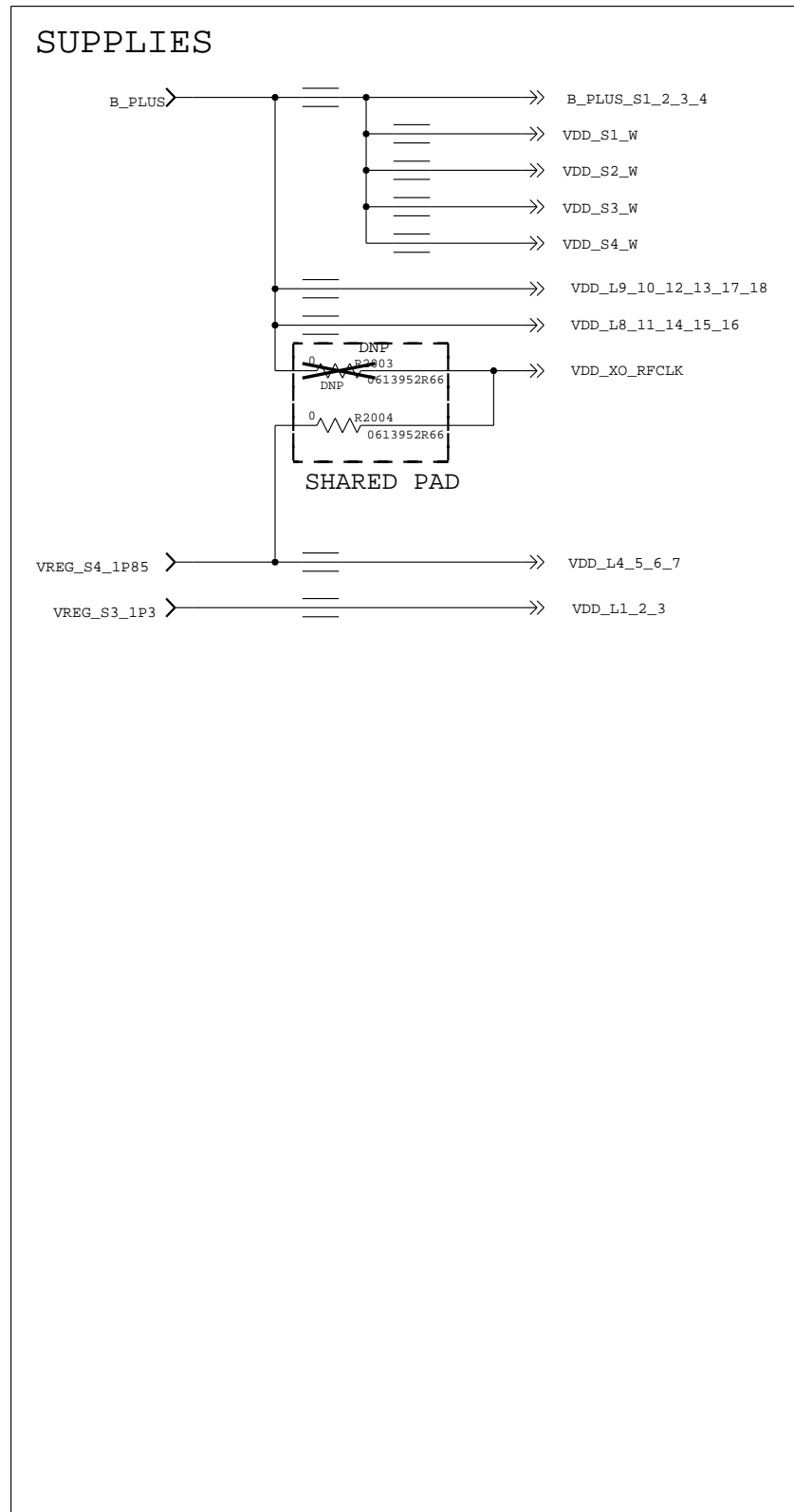
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LEAD ENGINEER:	DATE:		SIZE B
ASSY NUMBER:	PCB FILE NAME:	PAGE 19 OF 47	

MOTOROLA CONFIDENTIAL RESTRICTED

PM8916: POWER

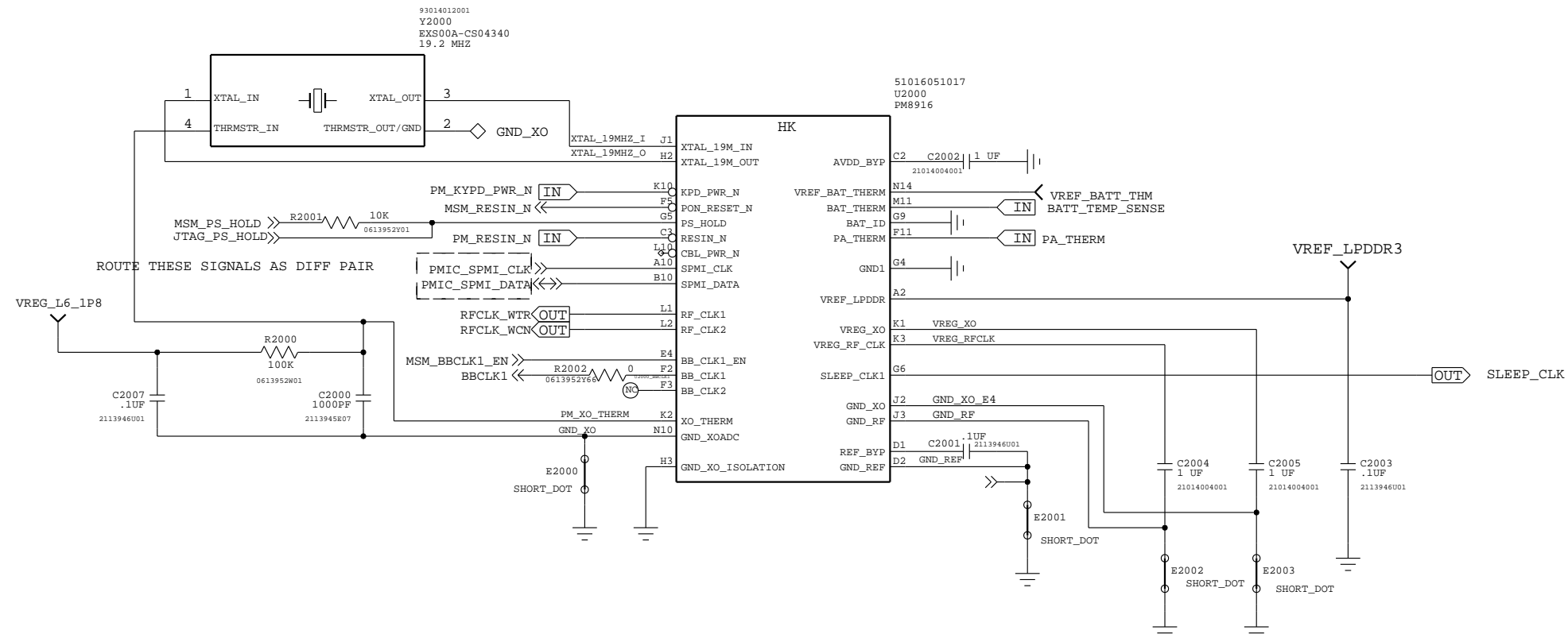
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		CAD FILE NAME:	
		PAGE 20 OF 47	

PM8916: HK

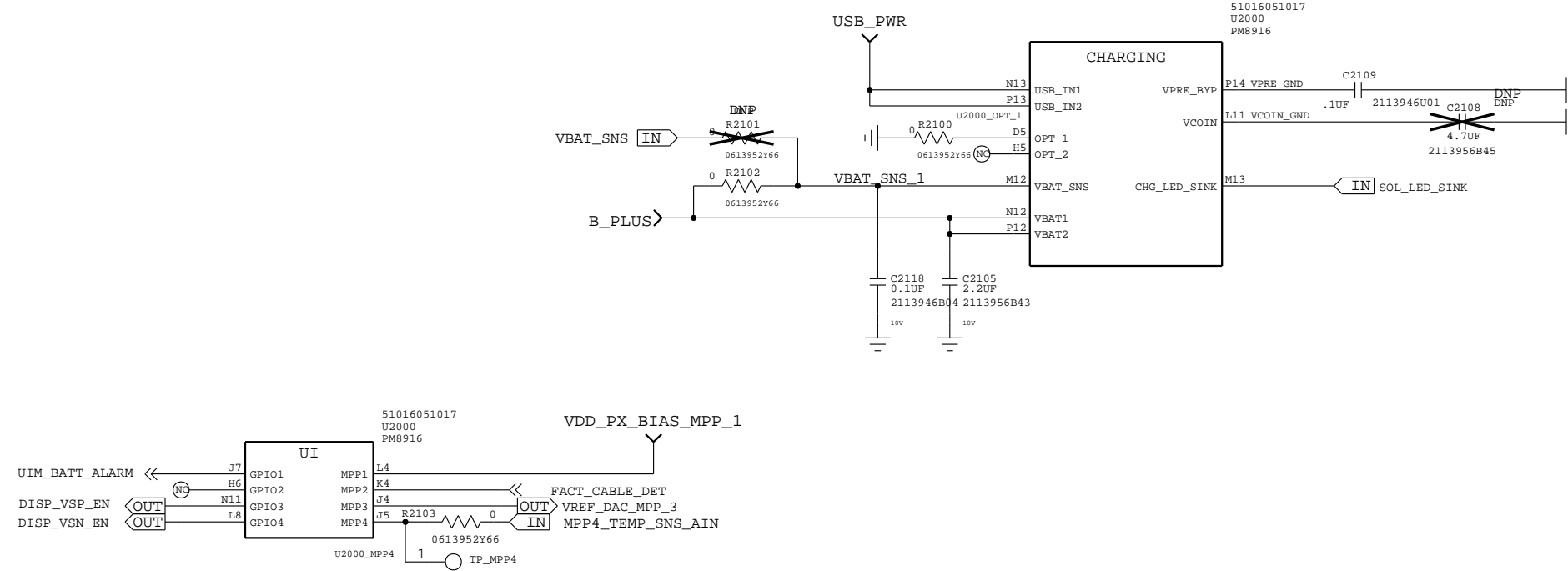
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		CAD FILE NAME:	
		PAGE 21 OF 47	

PM8916: CHRGE/LED/GPIO

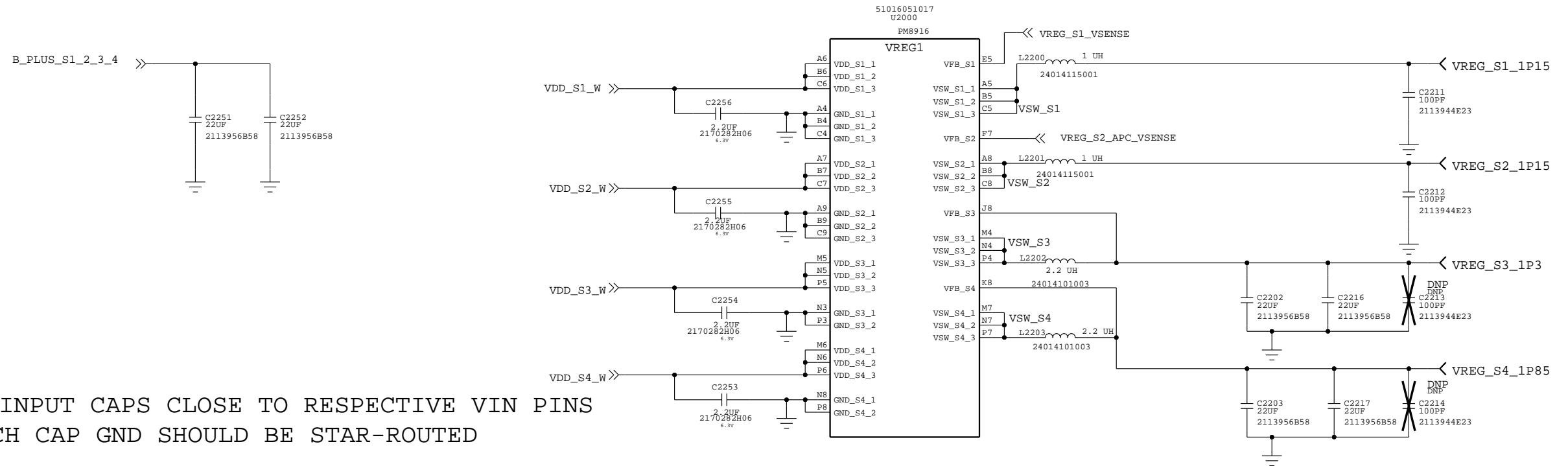
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		CAD FILE NAME:	
		PAGE 22 OF 47	

PM8916: SMPS

REF: 2000-2999

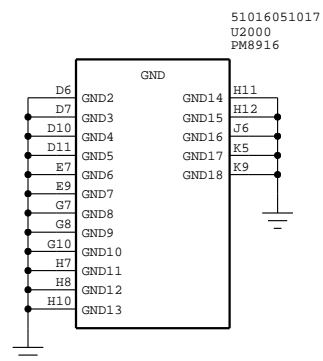
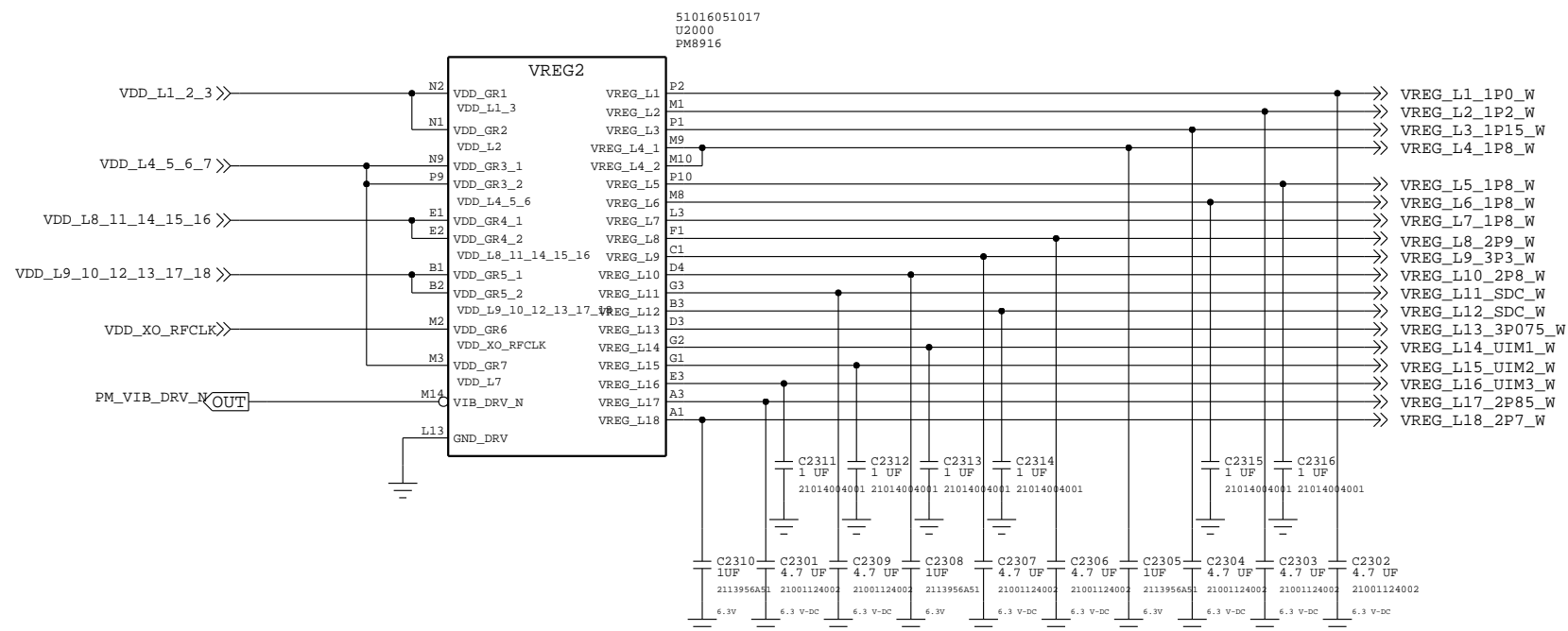


NOTE: PLACE INPUT CAPS CLOSE TO RESPECTIVE VIN PINS
EACH CAP GND SHOULD BE STAR-ROUTED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: XIAOYU WANG		BLOCK TITLE:	
LAST MODIFIED BY: MMI Mon May 11 16:30:37 2015		ap_pmic	
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		CAD FILE NAME:	
		PAGE 23 OF 47	

PM8916: VREGS

REF: 2000-2999




PSEUDO CAPLESS LDOS

L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18

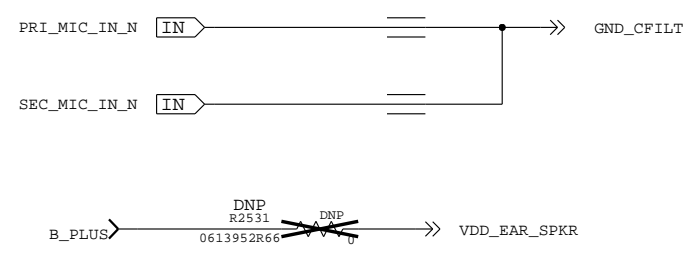
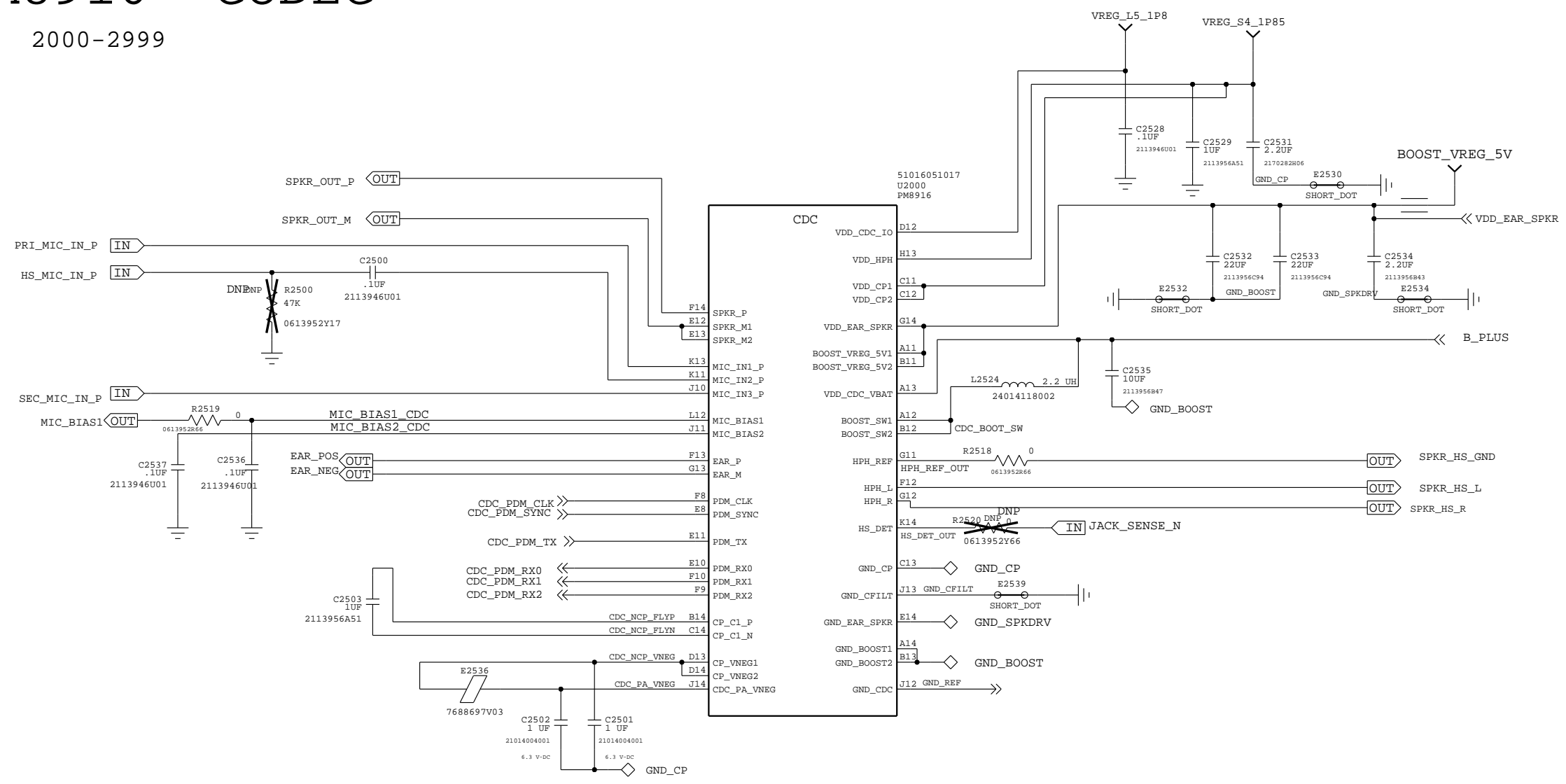
L8, L9, L11, L17 EACH SHALL HAVE TOTAL EFFECTIVE OUTPUT CAPACITANCE OF 4.7UF
 REST OF THE LDOS SHALL HAVE TOTAL EFFECTIVE OUTPUT CAPACITANCE OF 1.0UF

NOTE: IF A DECOUPLING CAP OF A PSEUDO CAPLESS LDO DOES NOT ADD TO 1UF ON THE LOAD SIDE, INSTALL THE CAP CLOSE TO THE PMIC

APPROVALS		 MOTOROLA MOBILE DEVICES	
ENGINEER: XIAOYU WANG		BLOCK TITLE:	
LAST MODIFIED BY: MMI Mon May 11 16:30:38 2015		<h1>ap_pmic</h1>	
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		CAD FILE NAME:	
		PAGE 24 OF 47	

PM8916: CODEC

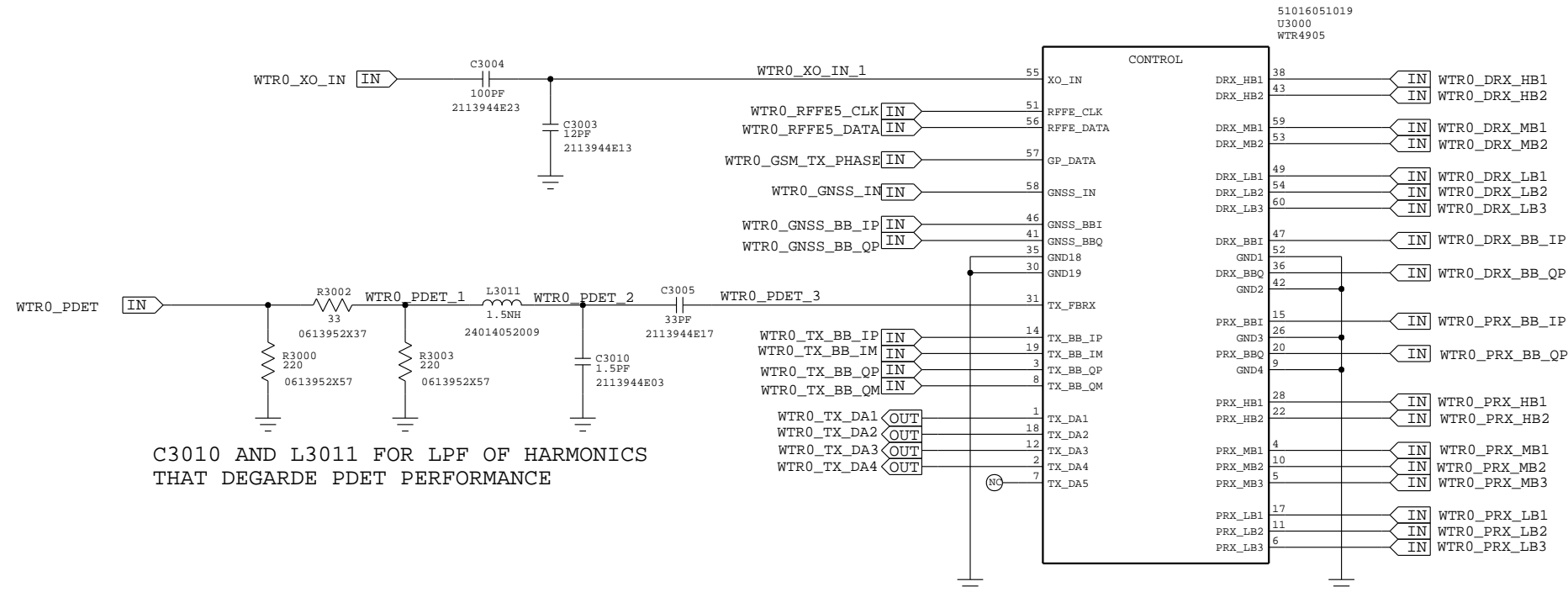
REF 2000-2999




APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: XIAOYU WANG		BLOCK TITLE:	
LAST MODIFIED BY: ECB033 Mon May 11 16:30:29 2015		<h2>ap_pmic</h2>	
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		B 84016407.cpm	01
CAD FILE NAME:		PAGE 25 OF 47	

WTR4905 BB RF

REF 3000-3099

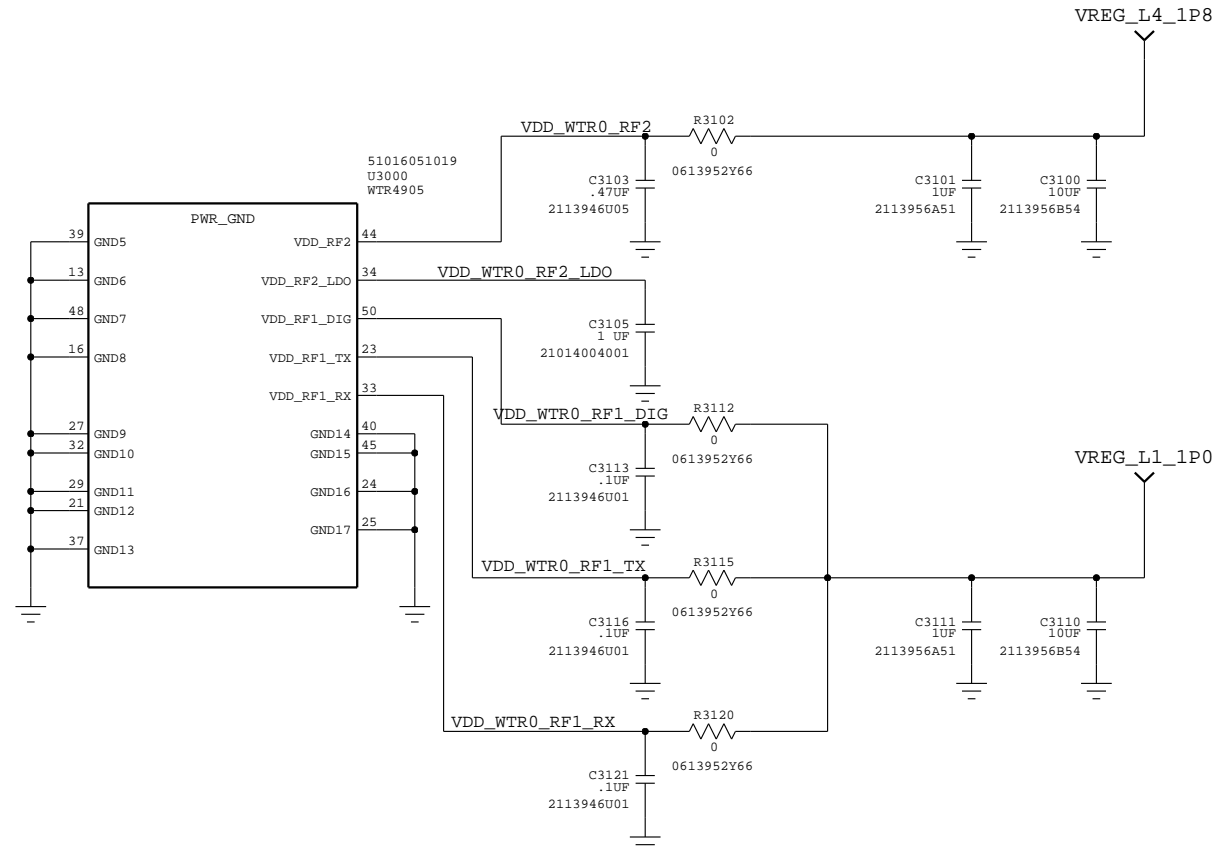


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

APPROVALS		 MOTOROLA MOBILE DEVICES	
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LAST MODIFIED BY: Mon May 11 16:30:43 2015		block_wtr4905	
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 84016407.cpm	REV 01
		CAD FILE NAME:	
		PAGE 26 OF 47	

BASED ON 80-NL713-44 REV. A

WTR4905 POWER
REF 3100-3199



MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDB TRACKED TRACKEDANDBLOCKED

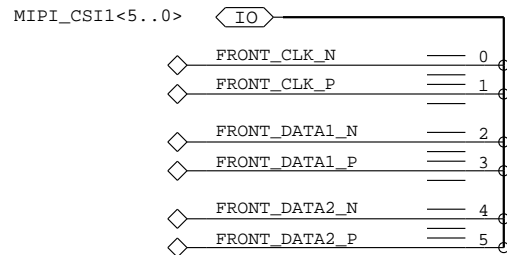
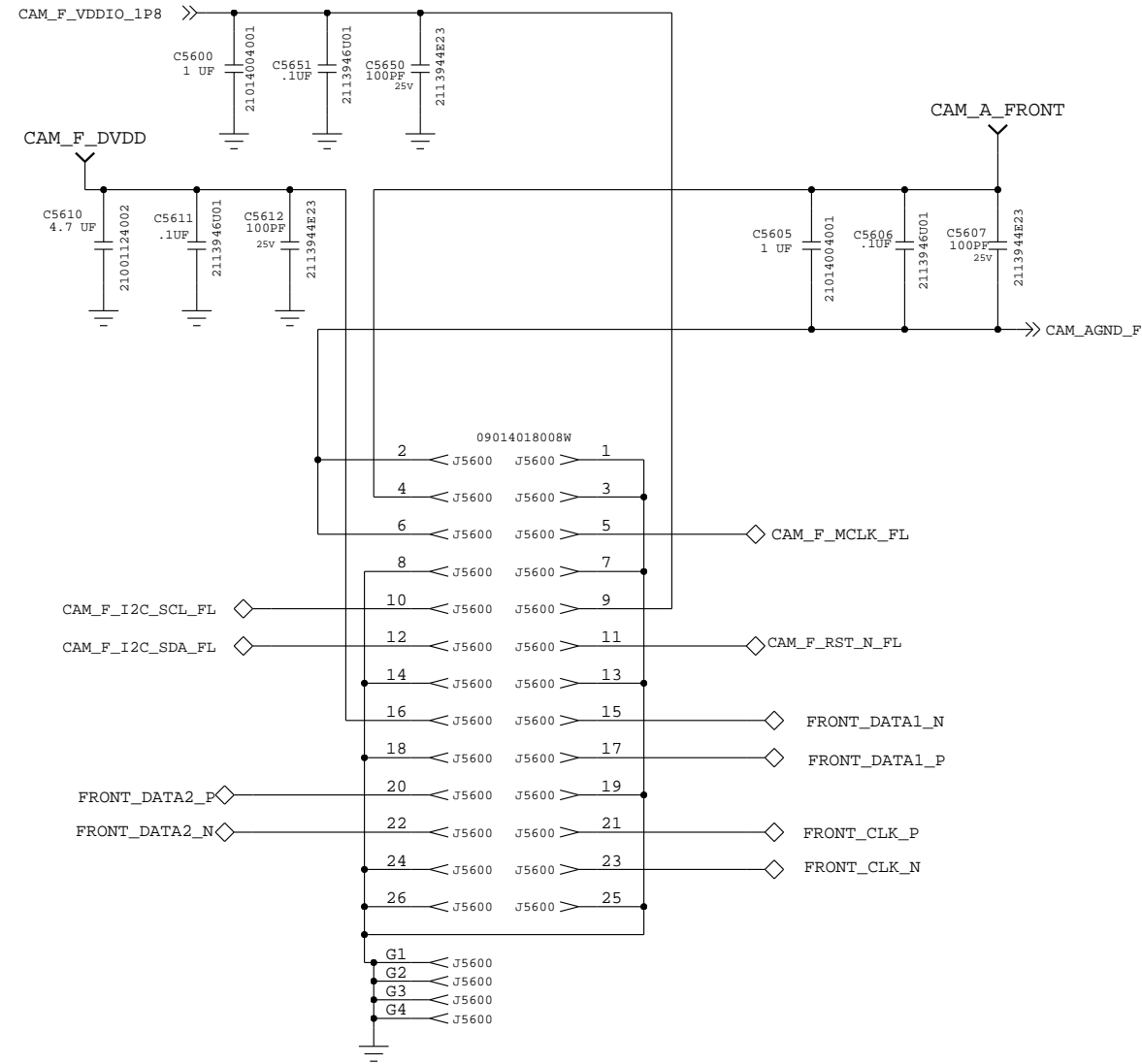
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LAST MODIFIED BY: MMI Mon May 11 16:30:44 2015		block_wtr4905	
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		CAD FILE NAME:	
		PAGE 27 OF 47	

BASED ON 80-NL713-44 REV. A

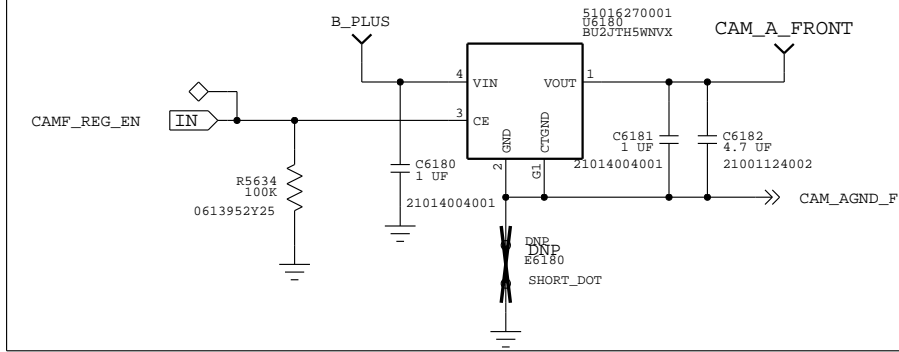
FRONT CAMERA

REF 5600-5649

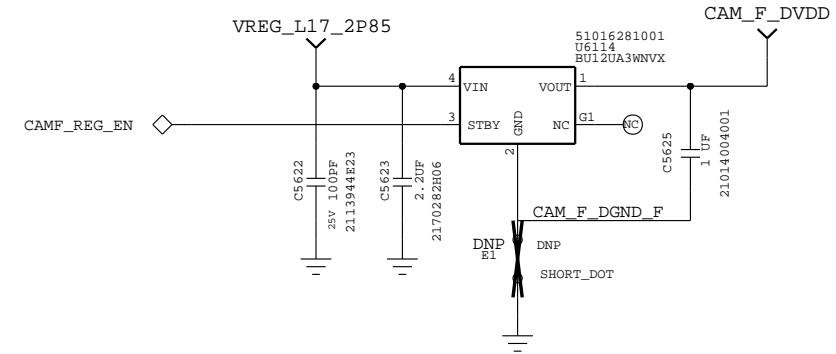
FF CAMERA CONNECTOR



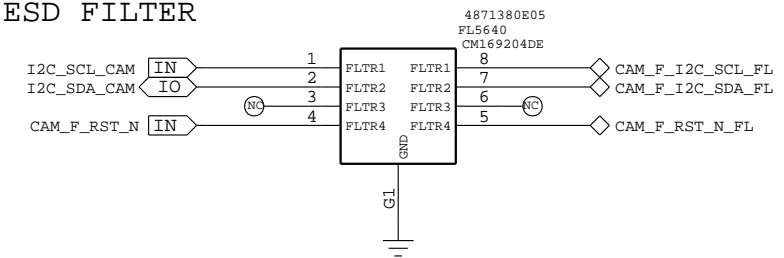
CAMERA ANALOG FRONT - 2.85V



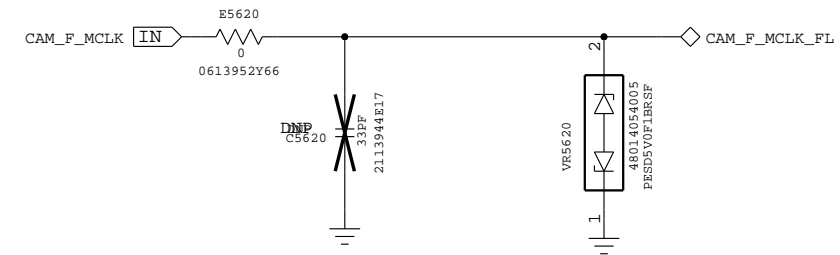
CAMERA FRONT DVDD - 1.2V



EMI/ESD FILTER



PLACE E5620 AND C5620 NEAR MSM



APPROVALS

ENGINEER: JOHN KRAMER

LAST MODIFIED BY: NATE CONNELL
Mon May 11 16:30:49 2015

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BLOCK TITLE:

user_interface

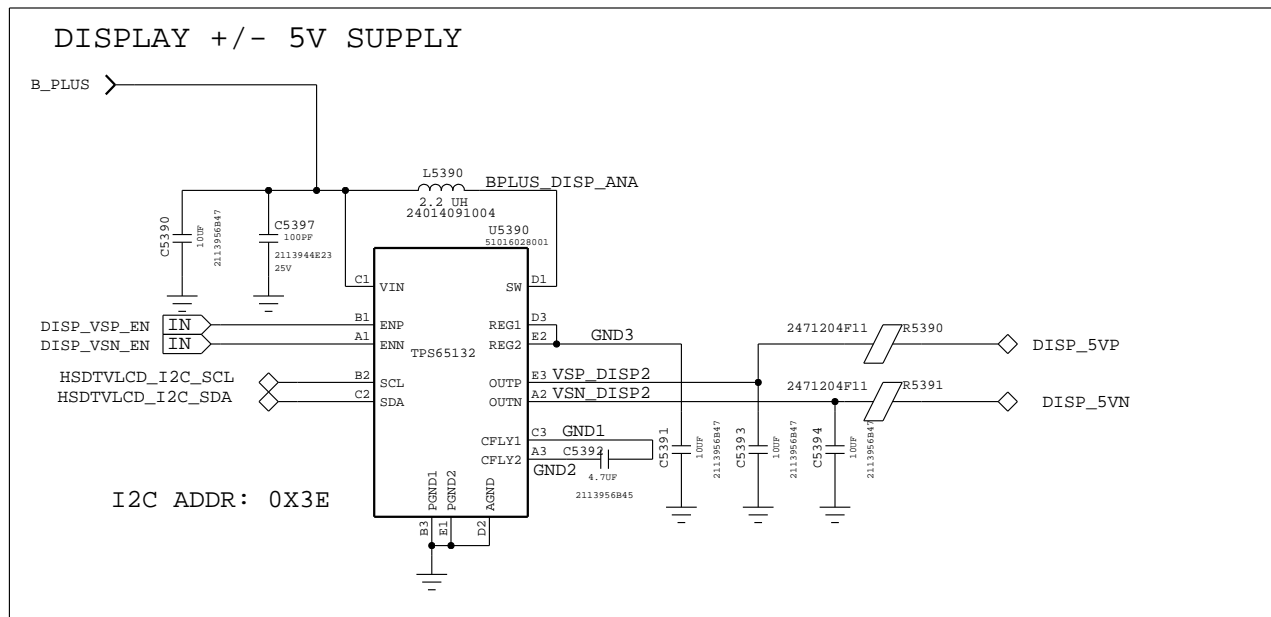
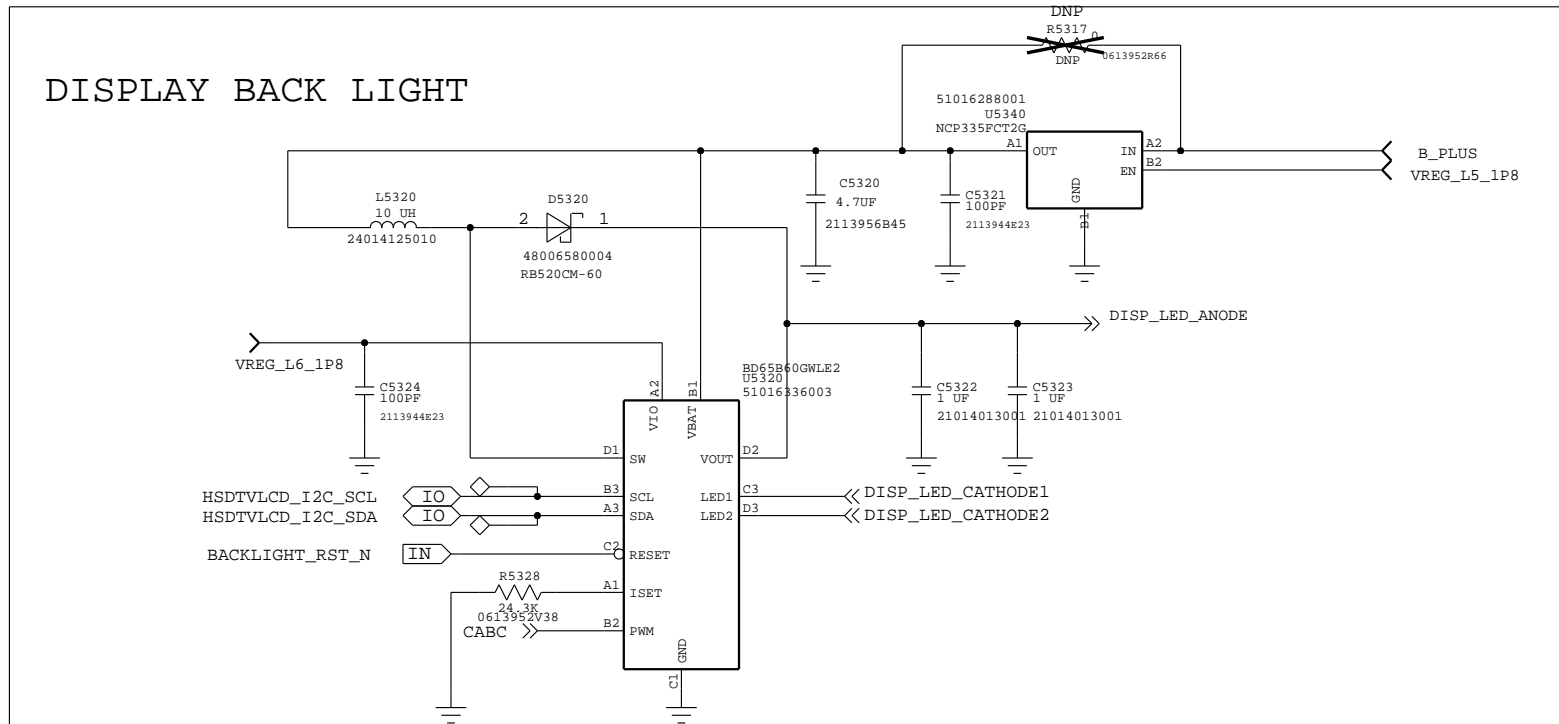
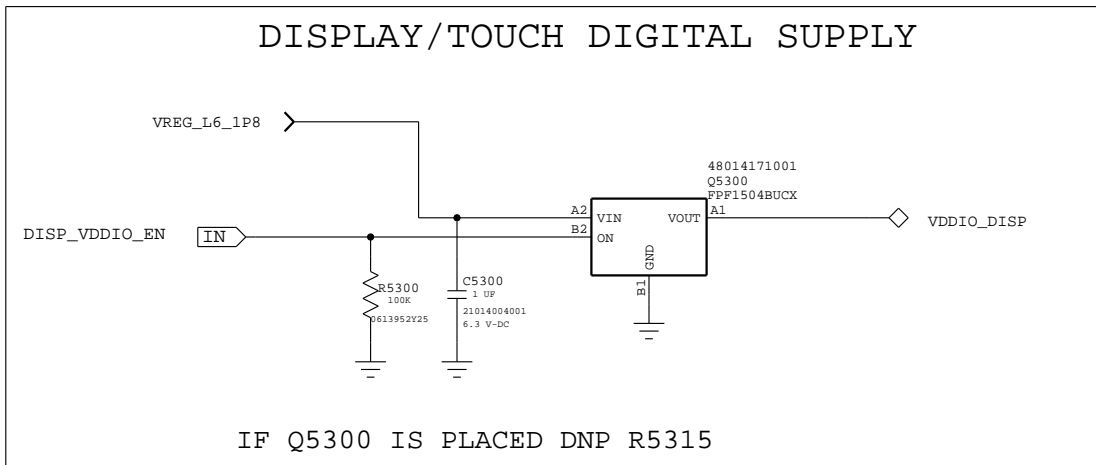
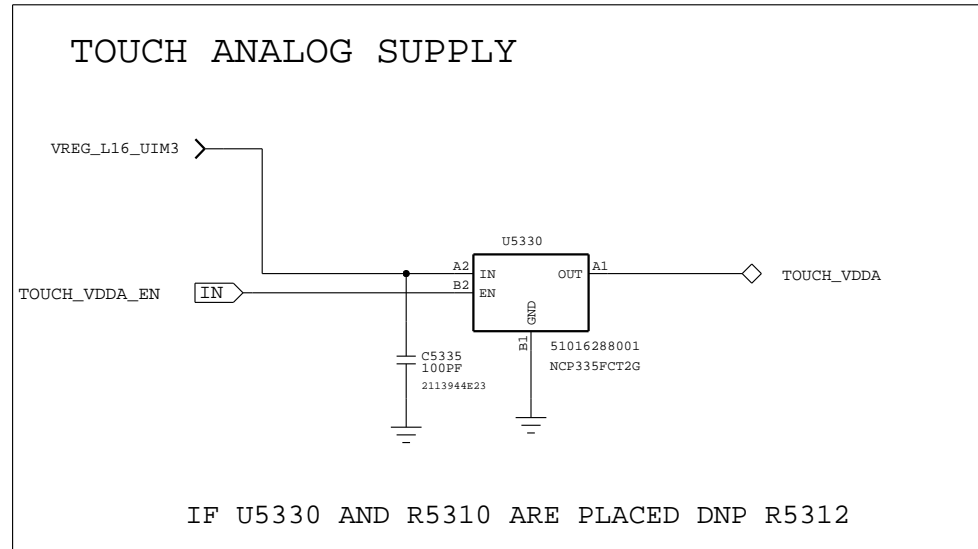
PROJECT NAME
84016407.cpm

REV
01

CAD FILE NAME:

DISPLAY POWER

REF: 5300-5399

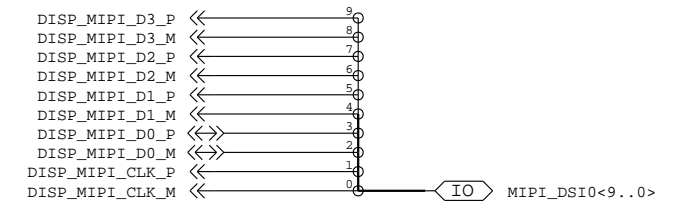
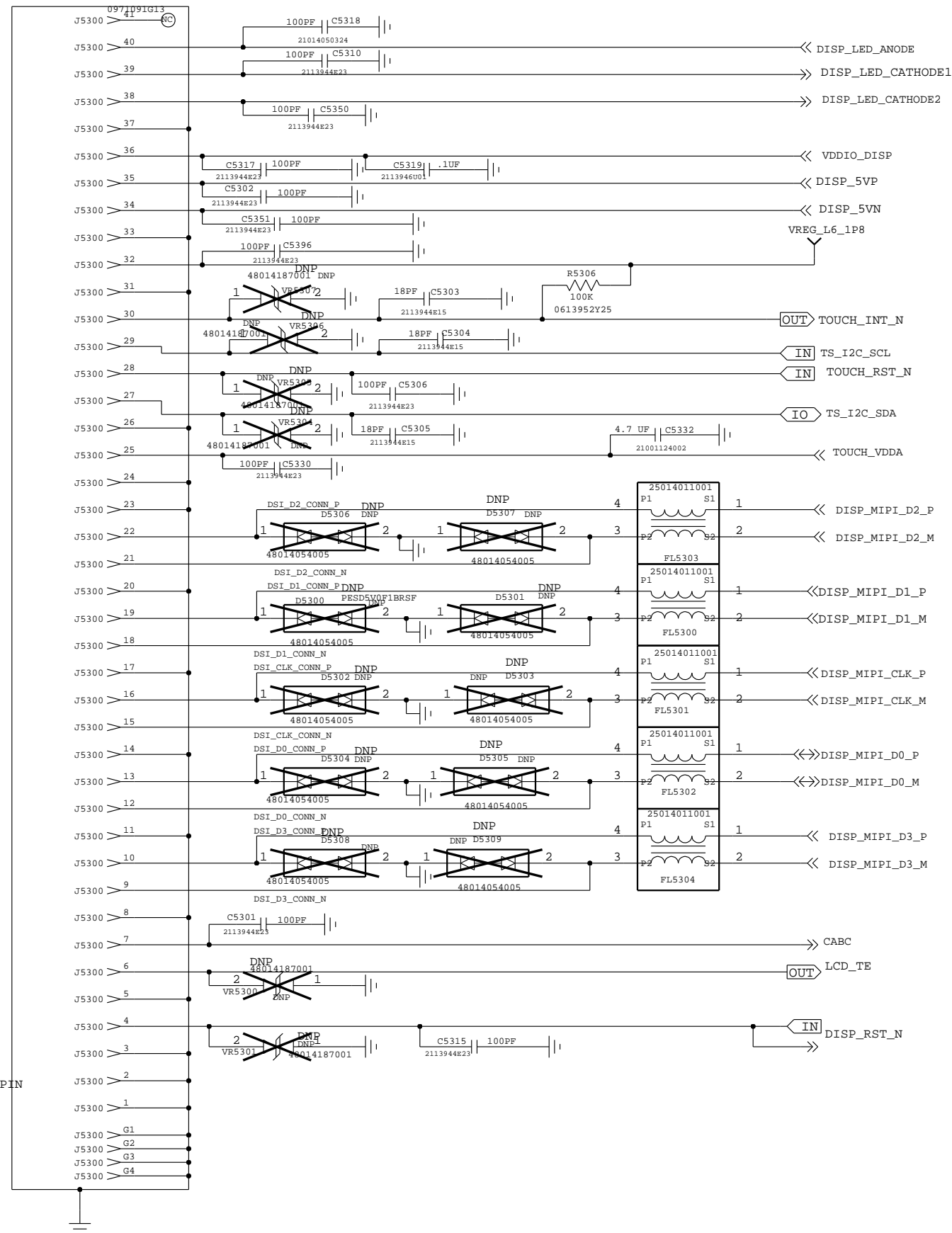


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MIGUEL DELEON		BLOCK TITLE:	
LAST MODIFIED BY: CARI HERNANDEZ Mon May 11 16:30:48 2015		user_interface	
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		B 84016407.cpm	01
CAD FILE NAME:		PAGE 30 OF 47	

DISPLAY CONNECTOR

REF: 5300-5399

REVISIONS				
REV	ECN	DESCRIPTION	MADE BY	APPROVED



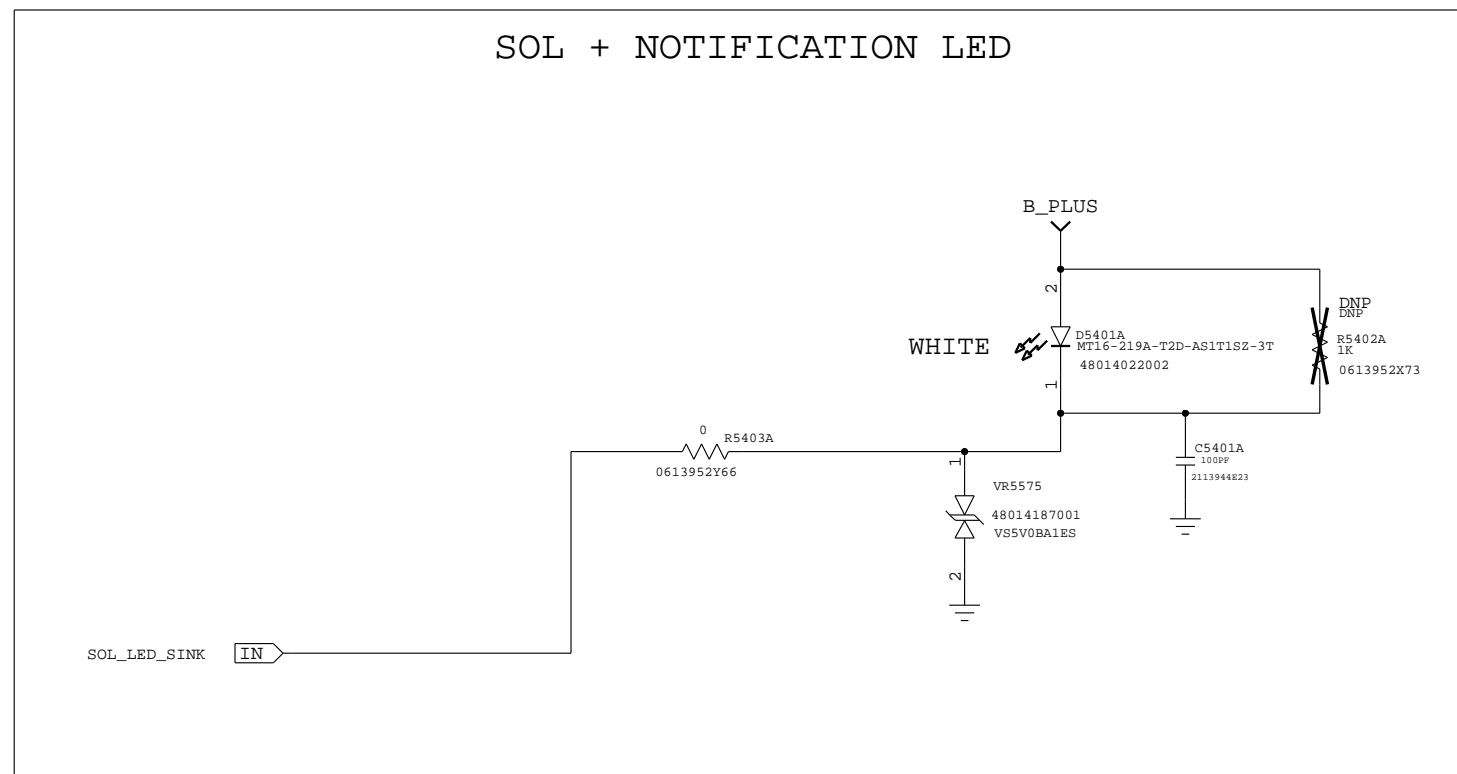
LAST MODIFIED: Mon May 11 16:30:51 2015

DRAWING NUMBER: 84		MOTOROLA	
DRAWN BY: MIGUEL DELEON	DATE:	TITLE:	REV 01
LEAD ENGINEER: MIGUEL DELEON	DATE:		SIZE B
ASSY NUMBER:	PCB FILE NAME:	PAGE 31 OF 47	

KEYS AND LEDS

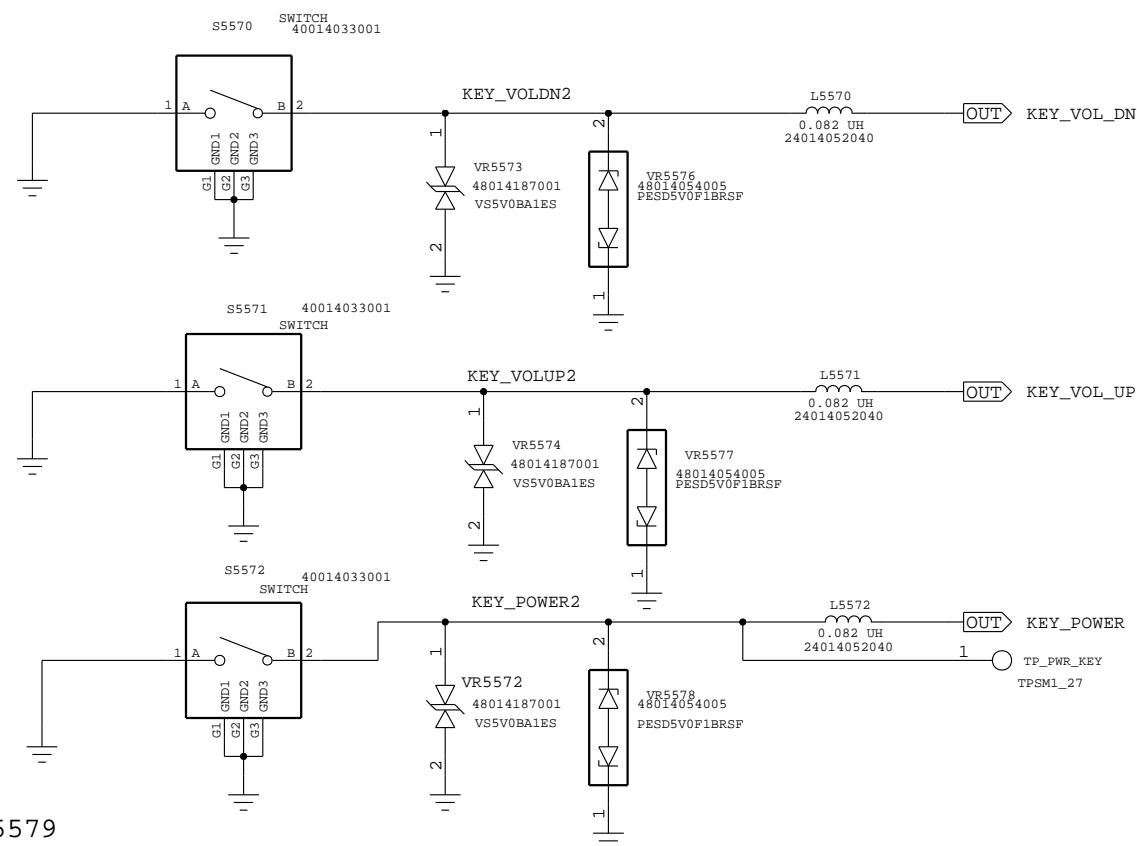
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SOL + NOTIFICATION LED



MECHANICAL KEYS

REF: 5570-5579



APPROVALS

ENGINEER: CARI HERNANDEZ
 LAST MODIFIED BY: CARI HERNANDEZ
 Mon May 11 16:30:45 2015

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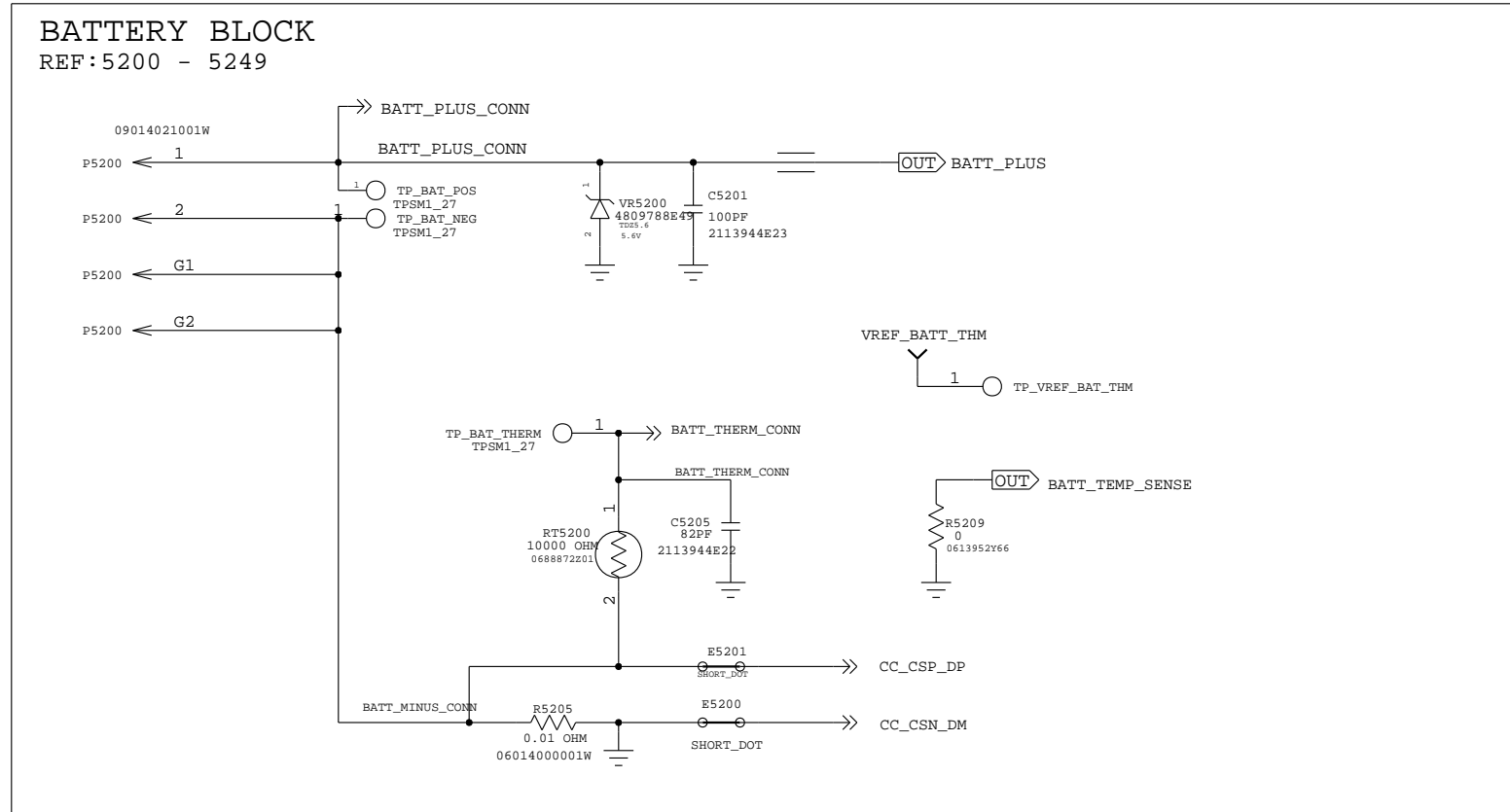
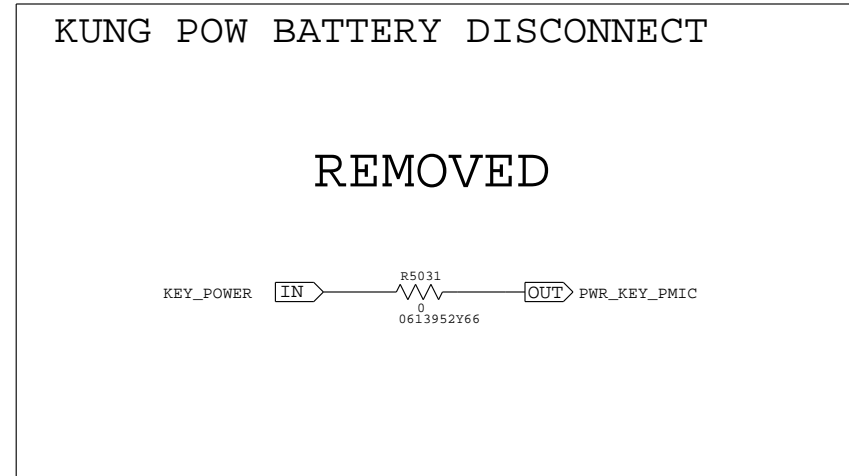
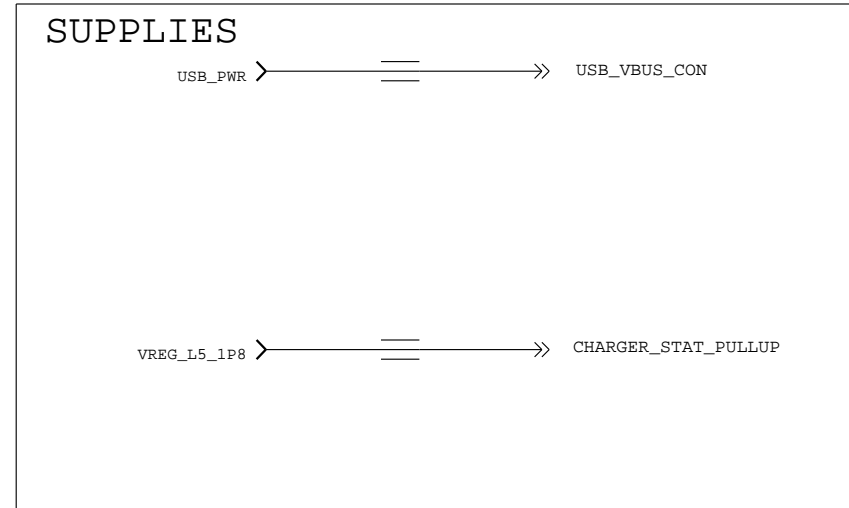
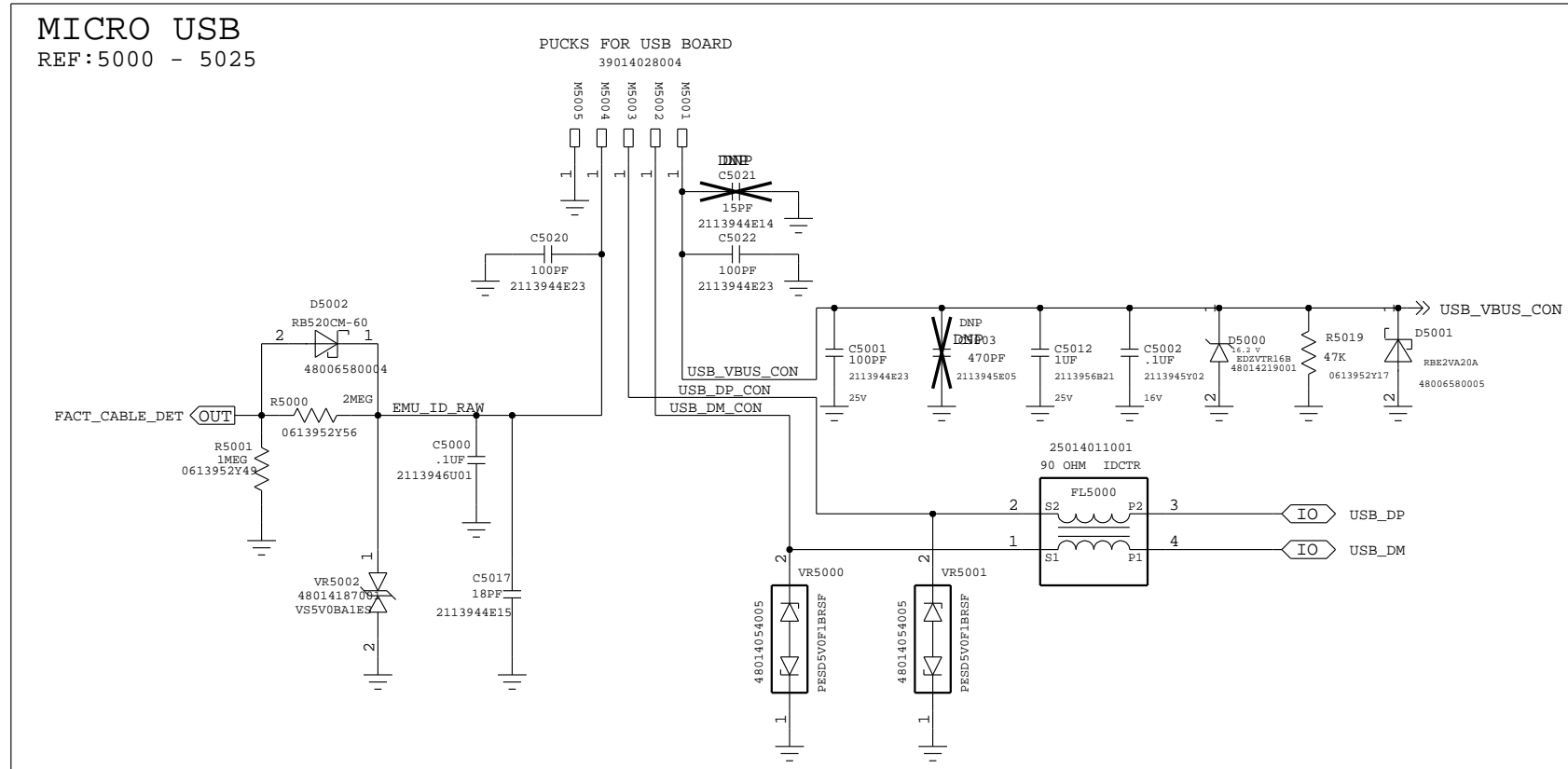
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B	PROJECT NAME	REV
	84016407.cpm	01

CAD FILE NAME: PAGE 32 OF 47

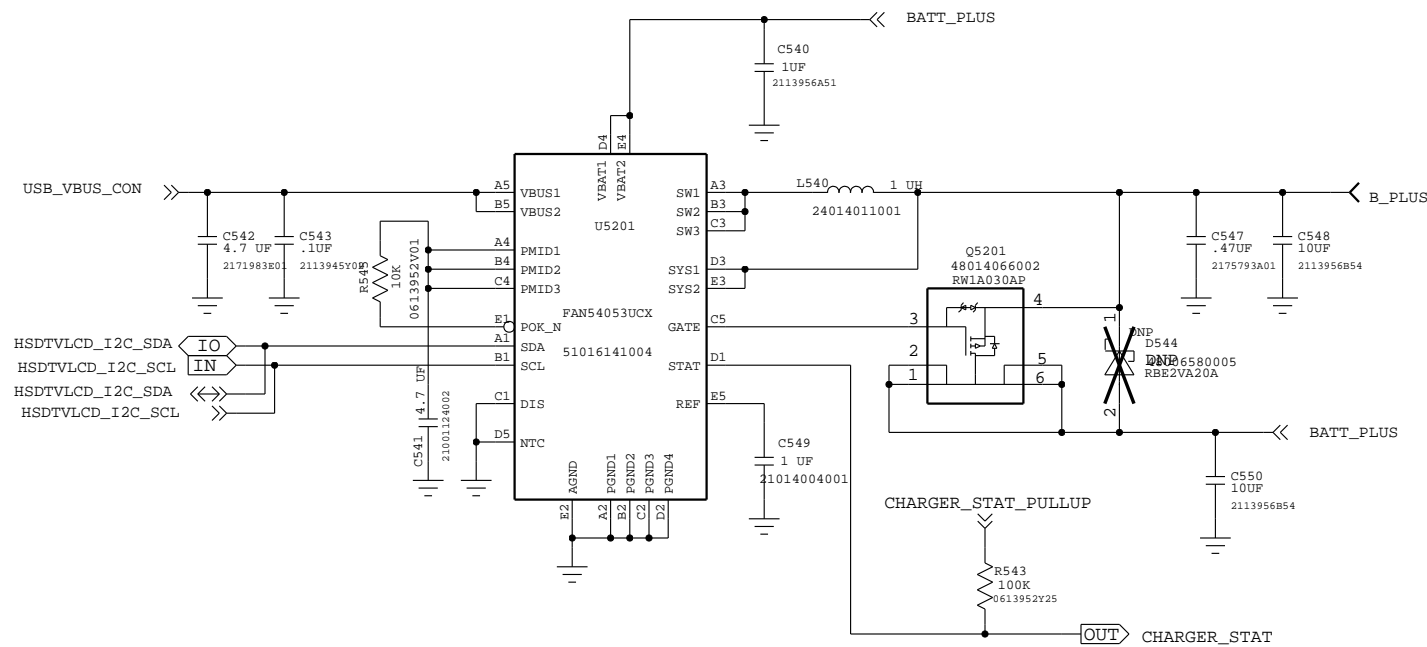
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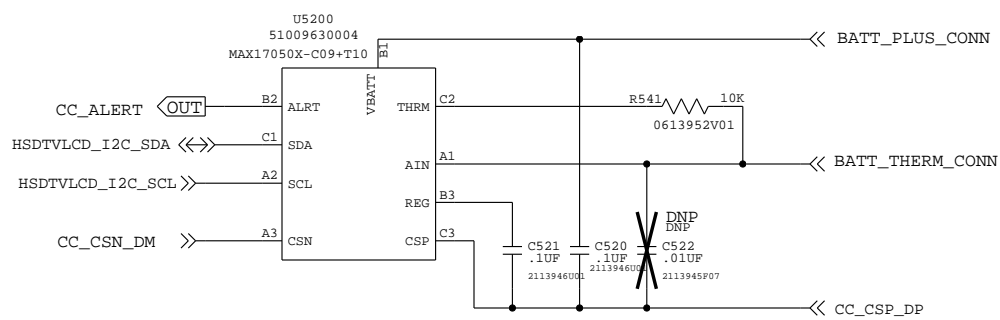


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: XIAOYU WANG		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon May 11 16:30:50 2015		user_interface	
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CAD FILE NAME:		PAGE 33 OF 47	

CHARGING



FUEL GAUGE



APPROVALS

ENGINEER: MMI
 LAST MODIFIED BY: MMI
 Mon May 11 16:30:45 2015

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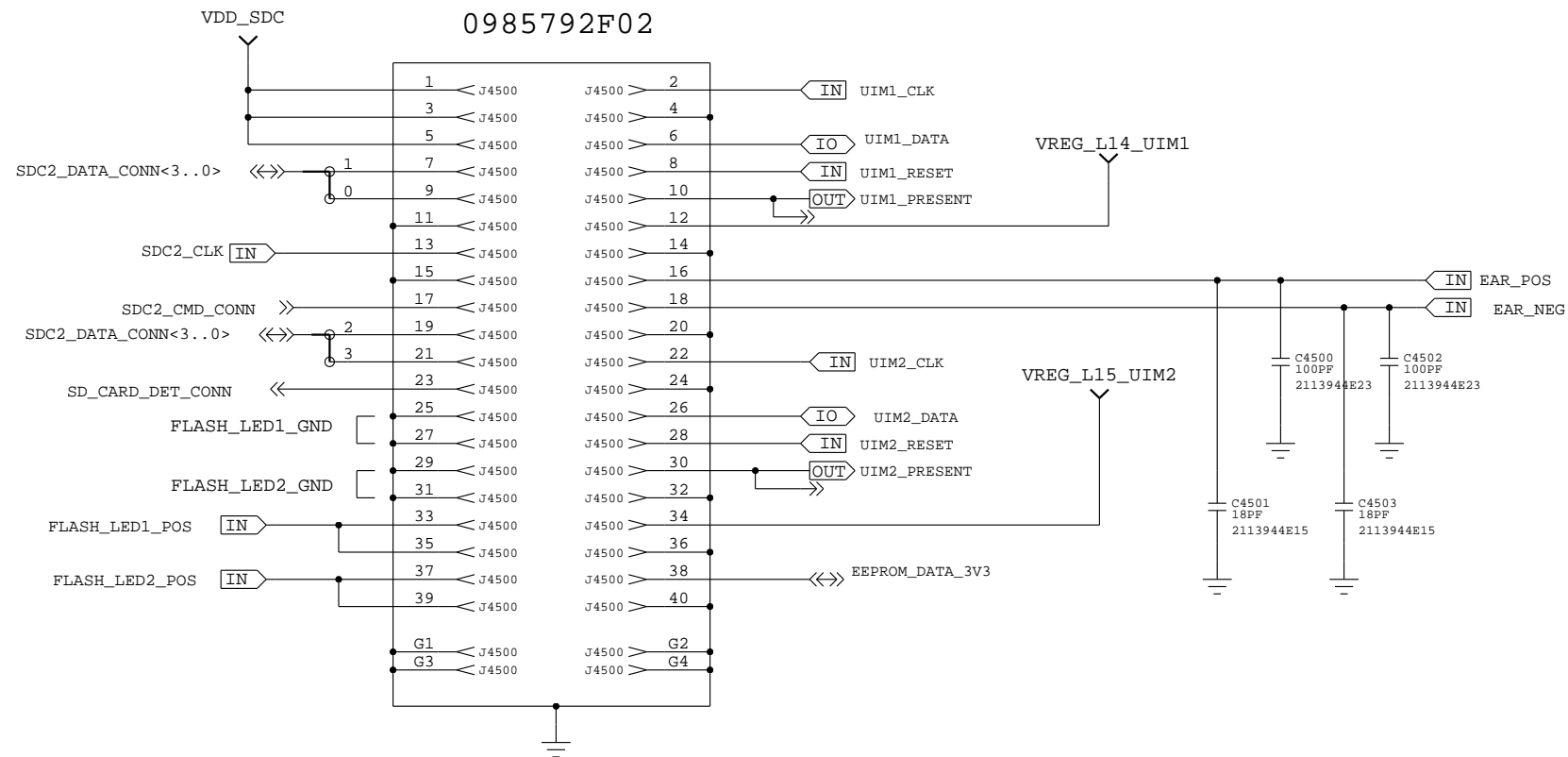
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PROJECT NAME: 84016407.cpm
 REV: 01

CAD FILE NAME:
 PAGE 34 OF 47

DAUGHTER BOARD CONNECTOR

REF 4500-4599

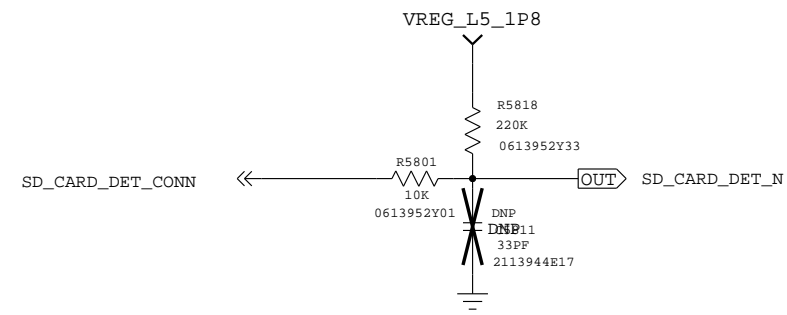
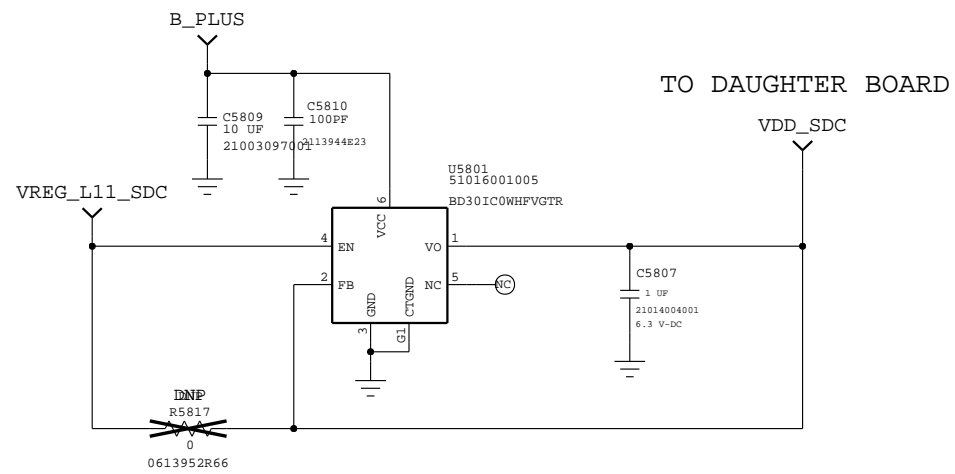


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDR TRACKED TRACKEDANDBLOCKED

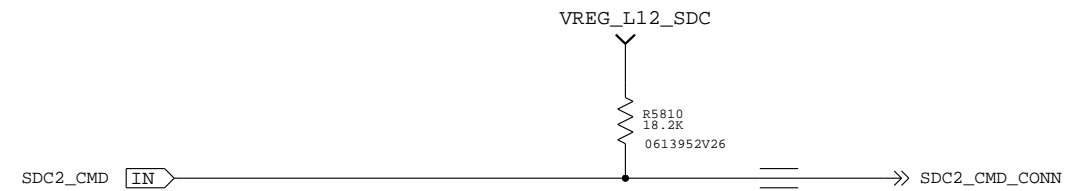
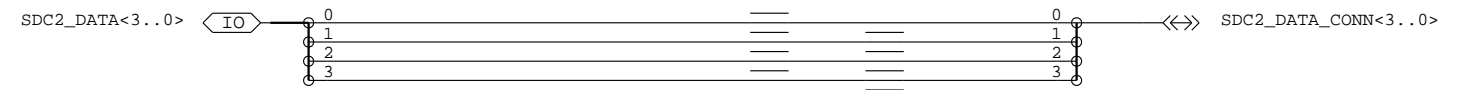
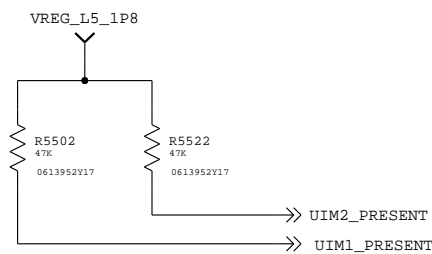
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ENGINEER: CARI HERNANDEZ		BLOCK TITLE:	
LAST MODIFIED BY: CARI HERNANDEZ Mon May 11 16:30:54 2015		daughter_board_conn	
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		CAD FILE NAME:	
		PAGE 35 OF 47	

SIM/SD/FLASH CARD SUPPORT

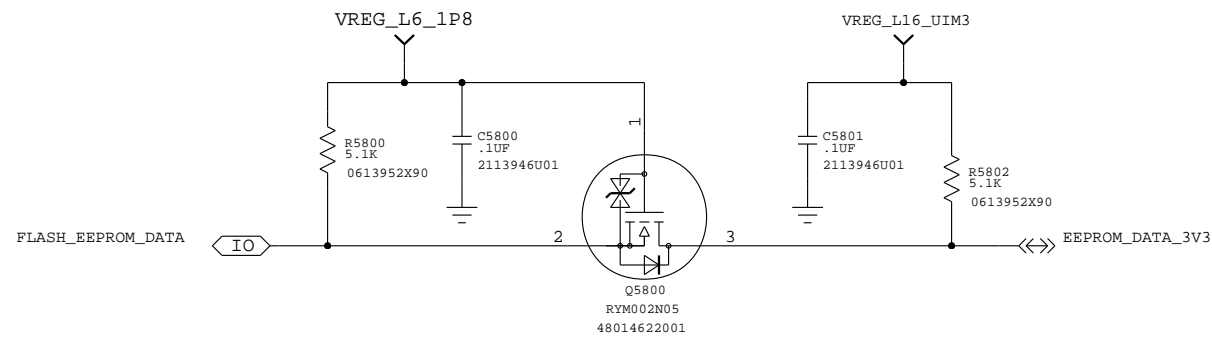
SD CARD POWER SUPPLY



PULLUPS FOR SIM DETECT



LEVEL SHIFT FOR FLASH LED EEPROM DATA

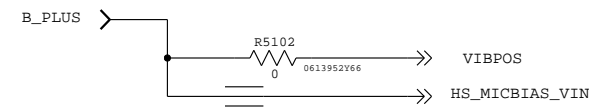
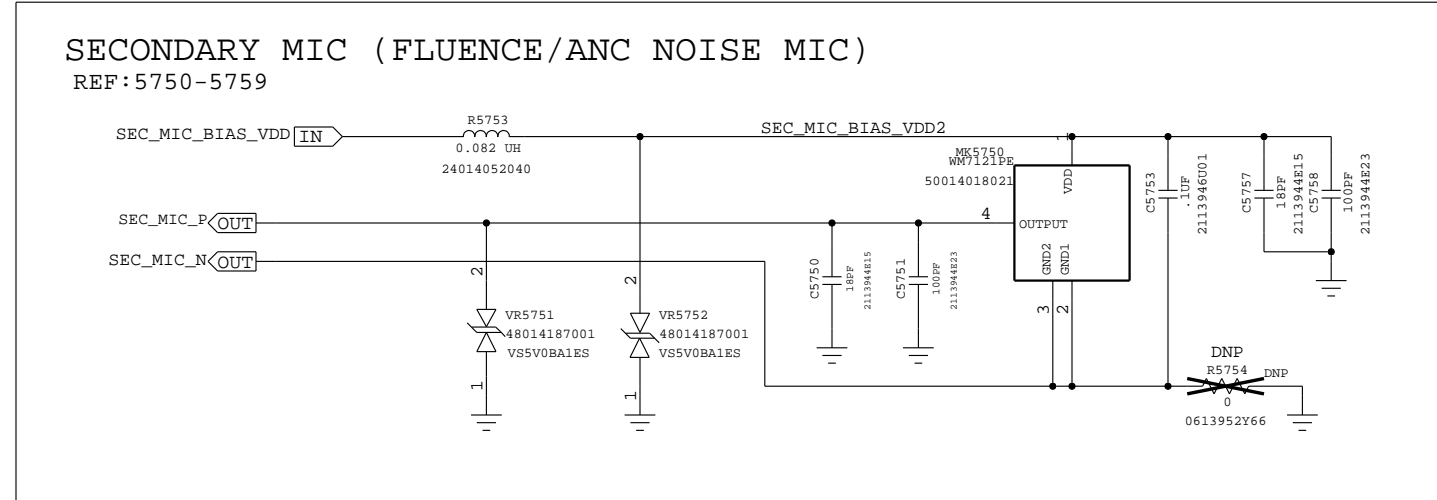
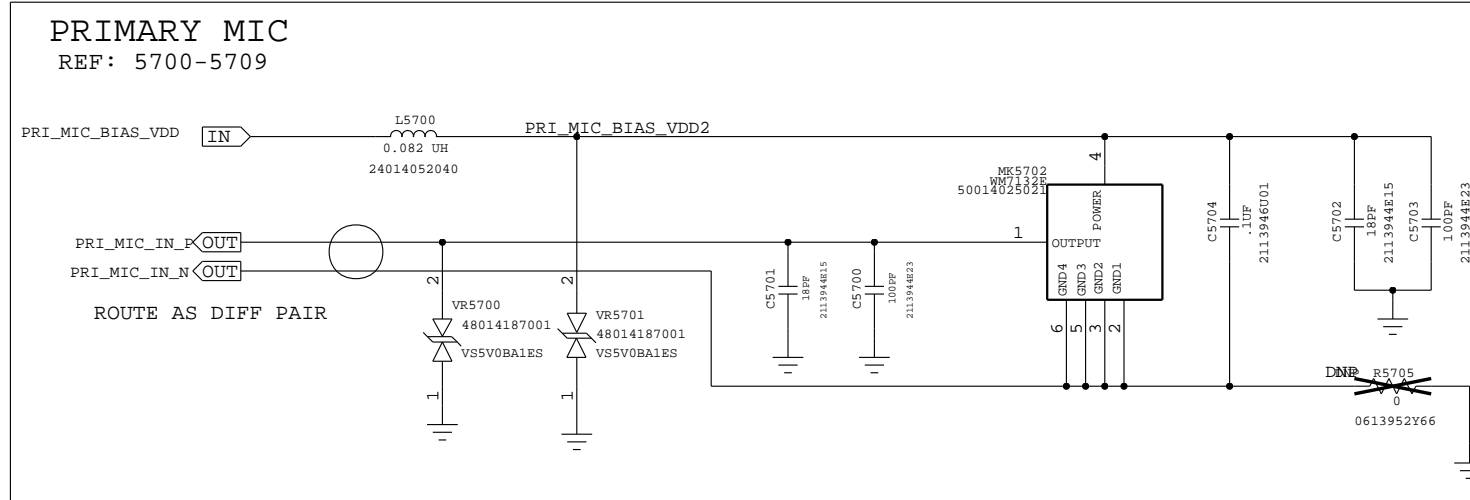


MOTOROLA MOBILITY CONFIDENTIAL RESTRICTED-MDR_TRACKED_TRACKEDANDBLOCKED

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: CARLOS TORRES		BLOCK TITLE:	
LAST MODIFIED BY: CARLOS TORRES Mon May 11 16:30:55 2015		daughter_board_conn	
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		B 84016407.cpm	01
CAD FILE NAME:		PAGE 36 OF 47	

MICS

REF: 5700-5799

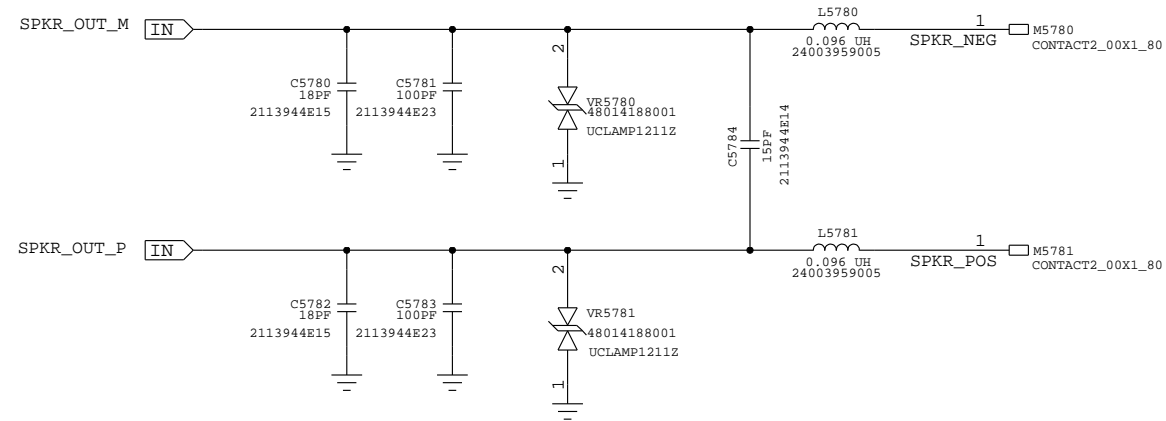


APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: DENNIS BUDNICK		BLOCK TITLE:	
LAST MODIFIED BY: NATE CONNELL Mon May 11 16:30:57 2015		audio_fe	
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		CAD FILE NAME:	
		PAGE 37 OF 47	

SPEAKER_VIB

LOUDSPEAKER

REF: 5780-5789



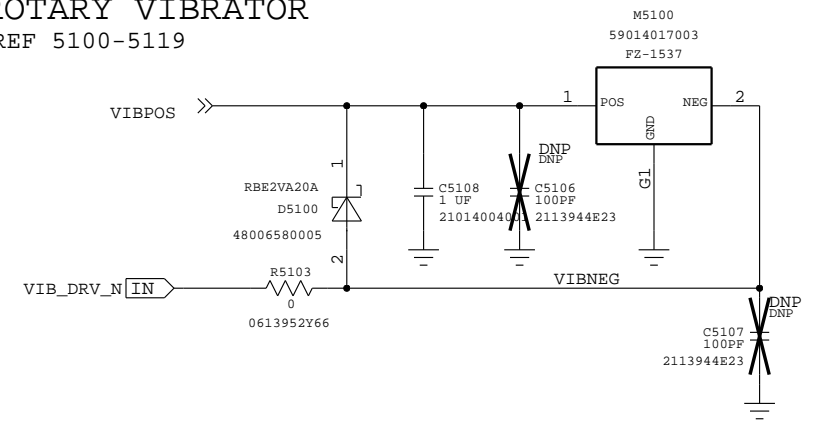
EARPIECE TRANSDUCER

REF: 5780-5789

EARPIECE MOVED TO DAUGHTER CARD

ROTARY VIBRATOR

REF 5100-5119



APPROVALS

ENGINEER: DENNIS BUDNICK

LAST MODIFIED BY: TIM MILLER
Mon May 11 16:30:57 2015

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BLOCK TITLE:

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PROJECT NAME
B 84016407.cpm

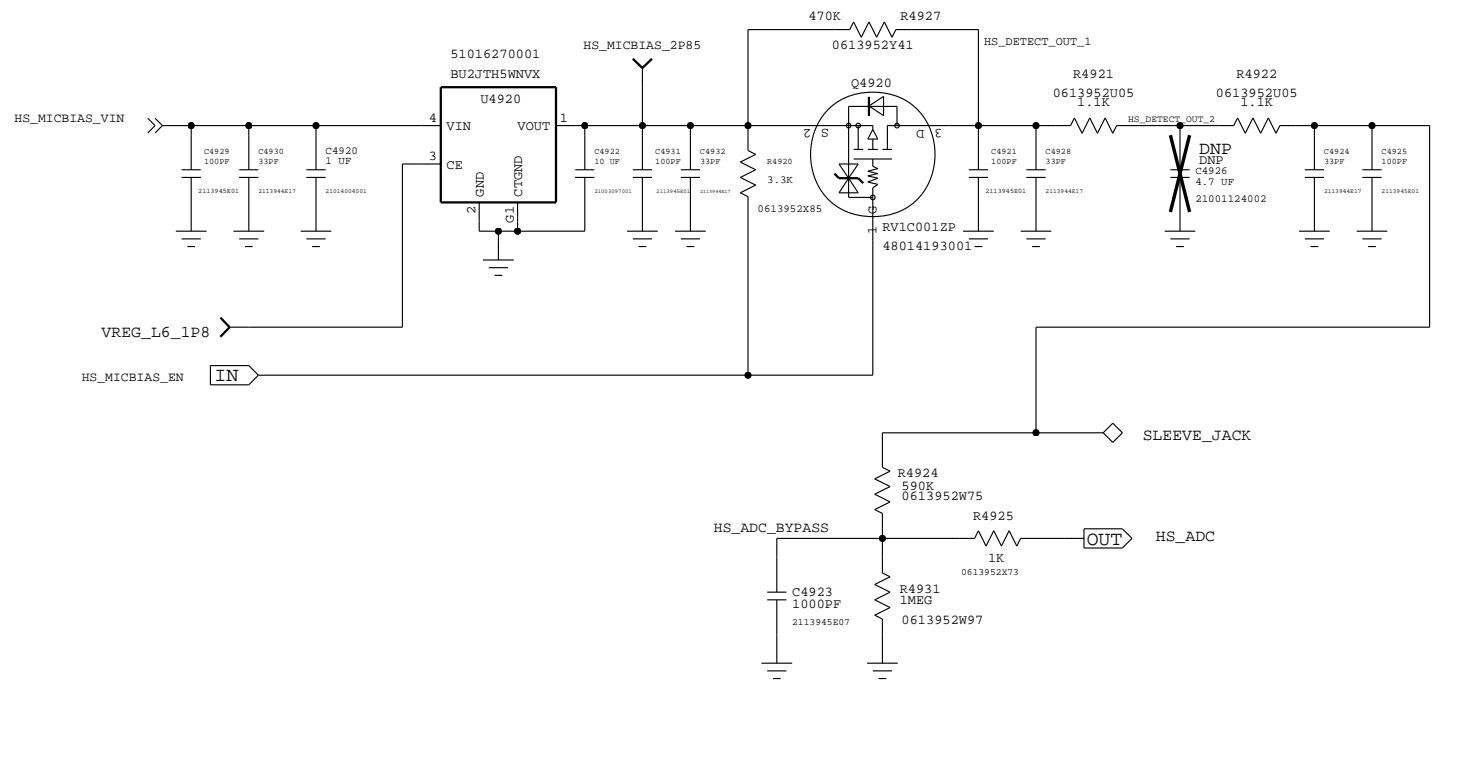
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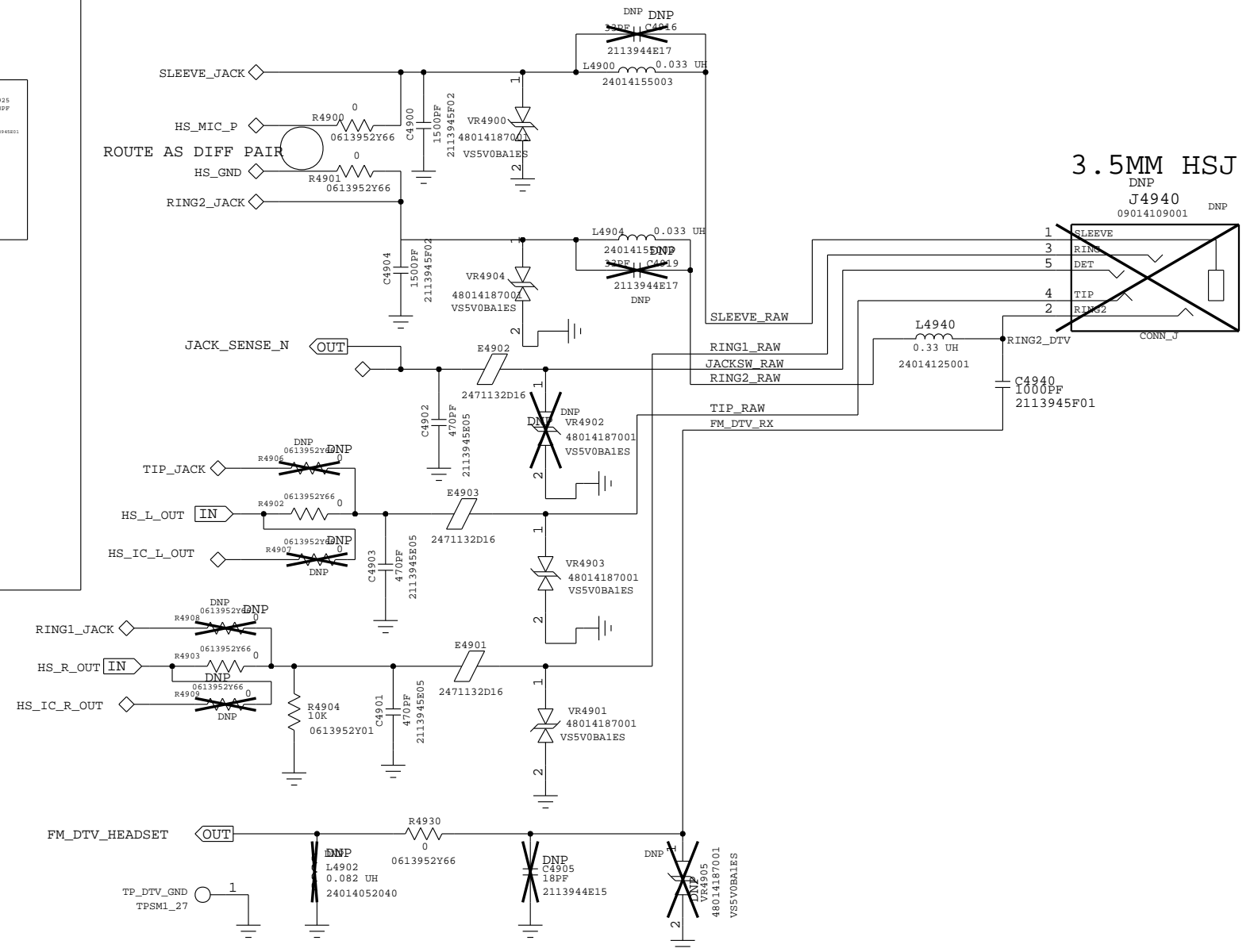
PAGE 38 OF 47

3.5MM HEADSET

SENSOR HUB HEADSET DETECTION CIRCUIT

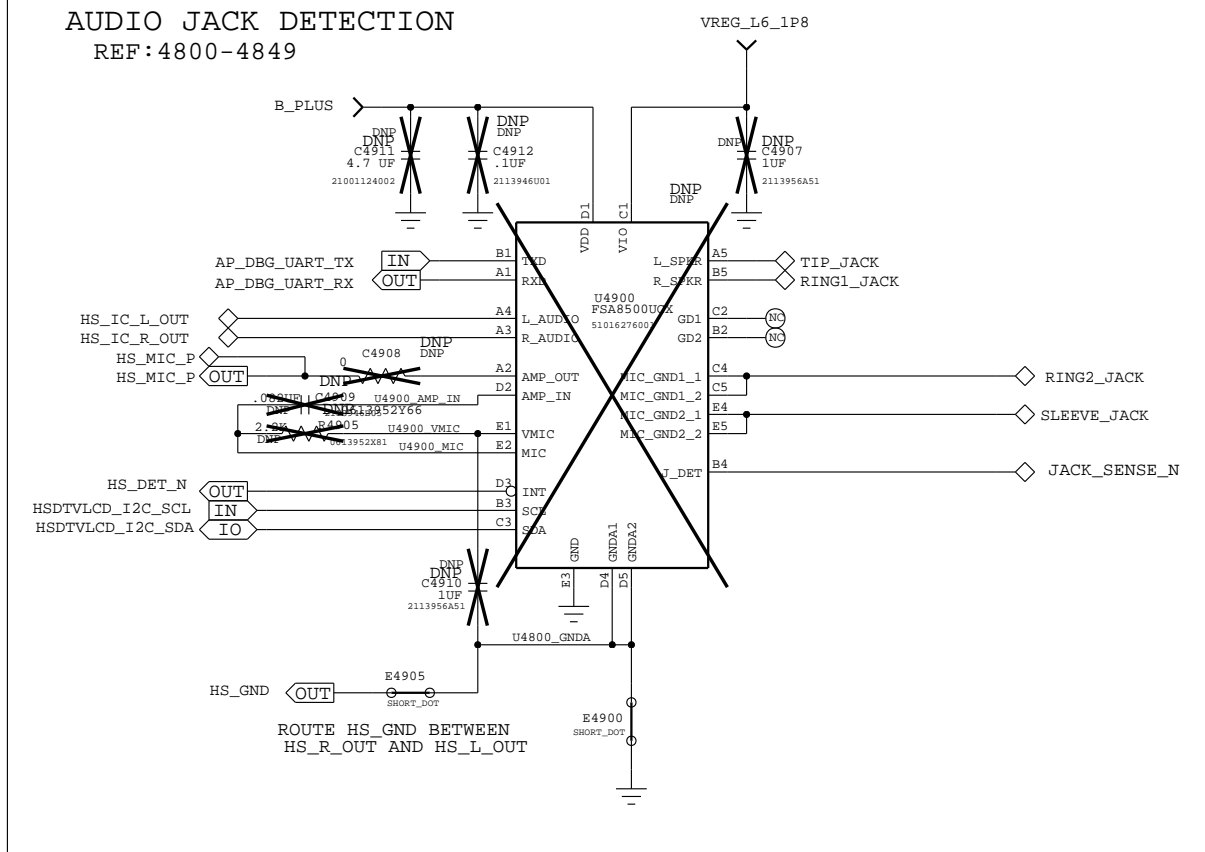


REF: 4900-4949



AUDIO JACK DETECTION

REF: 4800-4849



APPROVALS

ENGINEER: MMI
 LAST MODIFIED BY: MMI
 Mon May 11 16:30:56 2015

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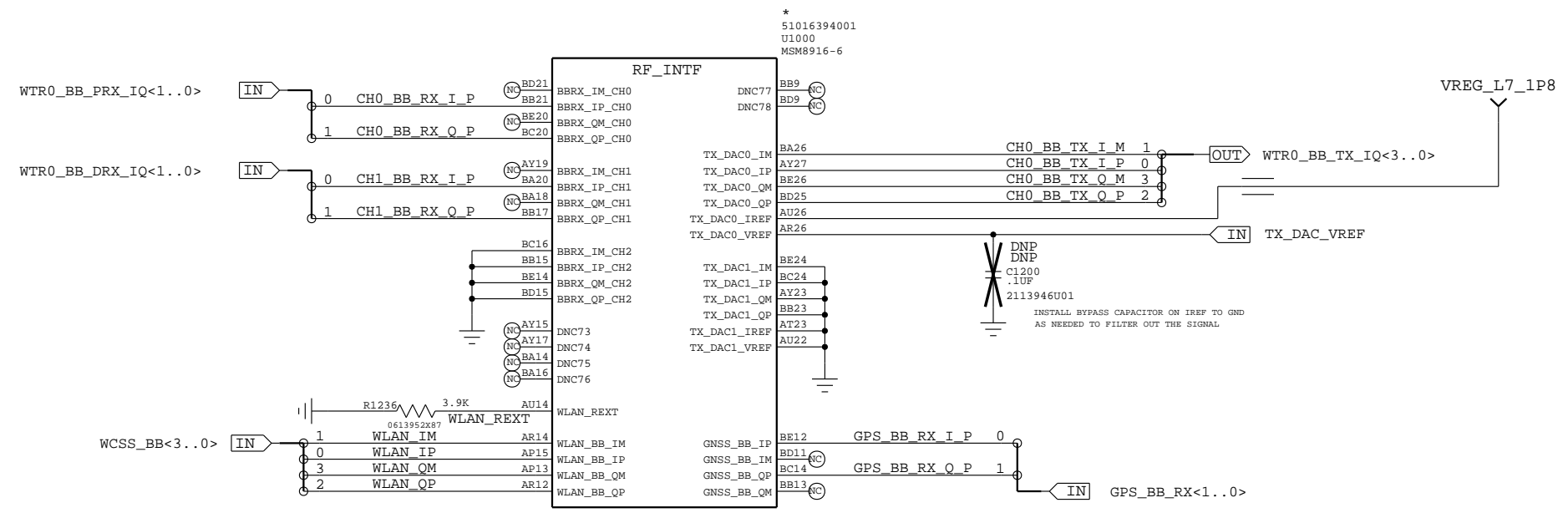
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B	PROJECT NAME	REV
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CAD FILE NAME: _____ PAGE 39 OF 47

MSM8X36 RF INTERFACE

REF 1200-1299



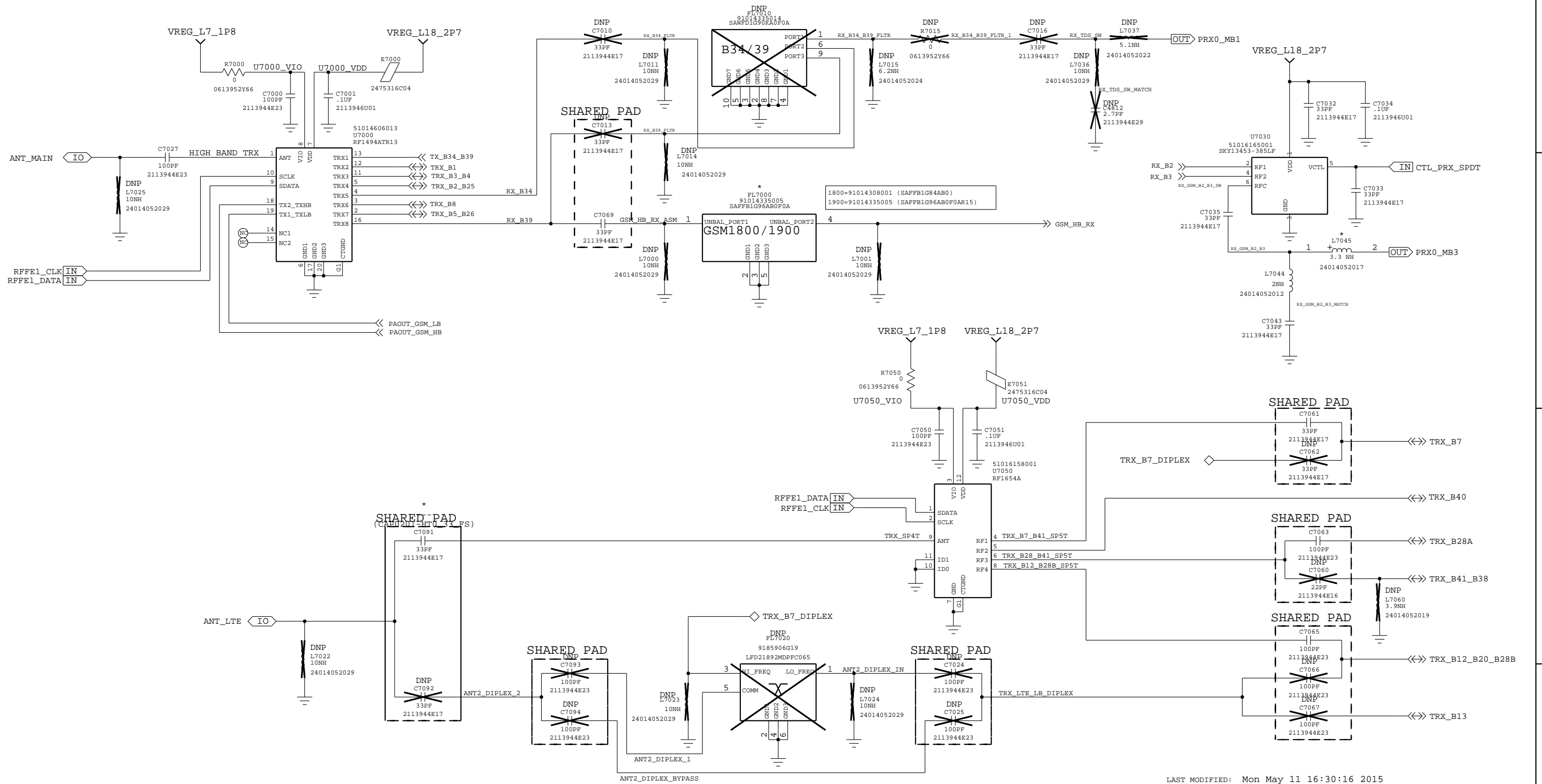
INFO: QC DOES NOT HAVE SOME BUSES SO SOME OF THE NAMES ARE COPIED FROM DVX

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LAST MODIFIED BY: FAN021 Mon May 11 16:30:59 2015		block_msm8x16_rf	
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		CAD FILE NAME:	
		PAGE 40 OF 47	

RFFE:SP10T+SP4T

REF 7000-7099

REVISIONS				
REV	ECN	DESCRIPTION	MADE BY	APPROVED

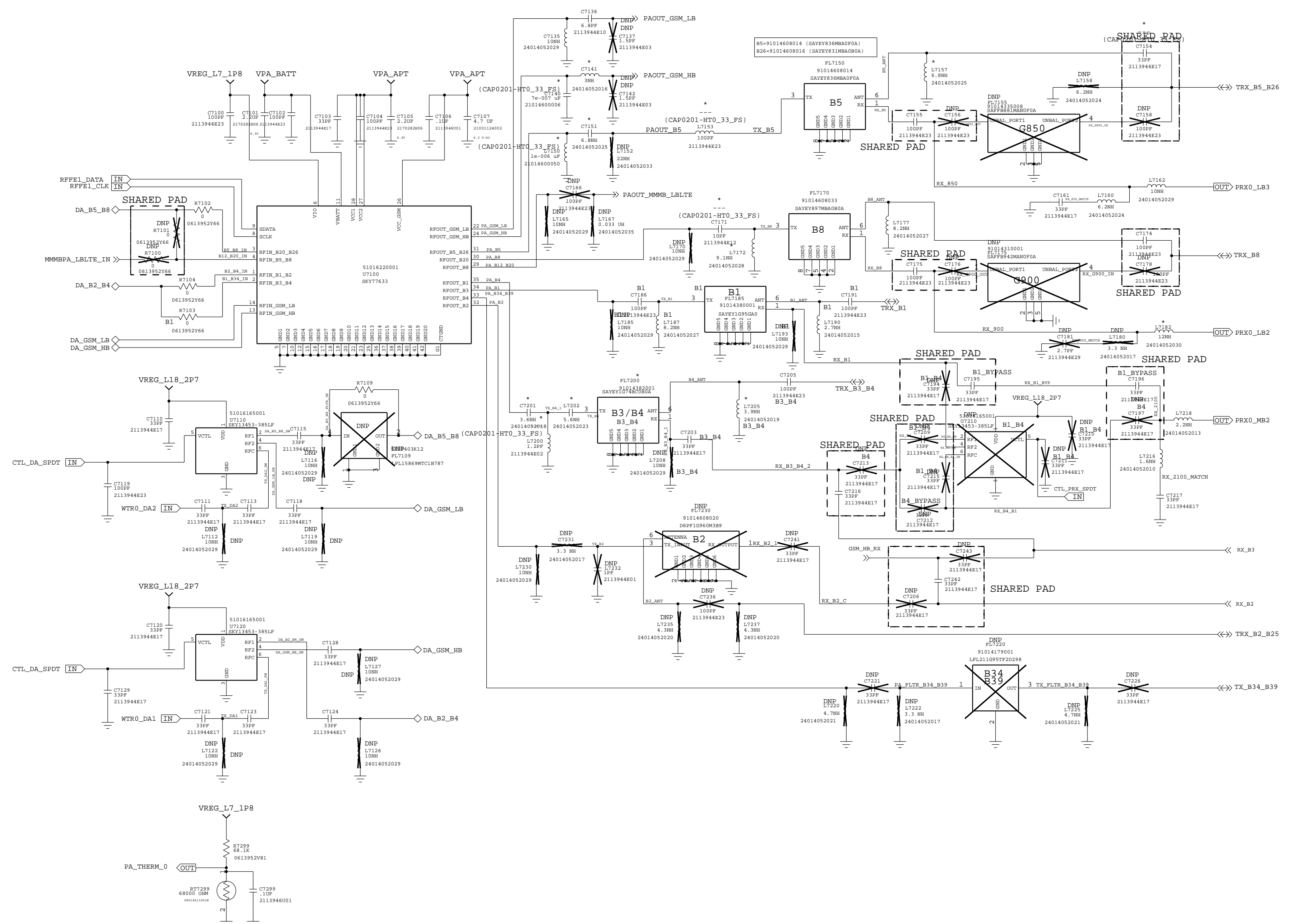


LAST MODIFIED: Mon May 11 16:30:16 2015

DRAWING NUMBER: 84			
DRAWN BY:	DATE:	TITLE:	REV 01
LEAD ENGINEER:	DATE:		SIZE B
ASSY NUMBER:	PCB FILE NAME:	PAGE 41 OF 47	

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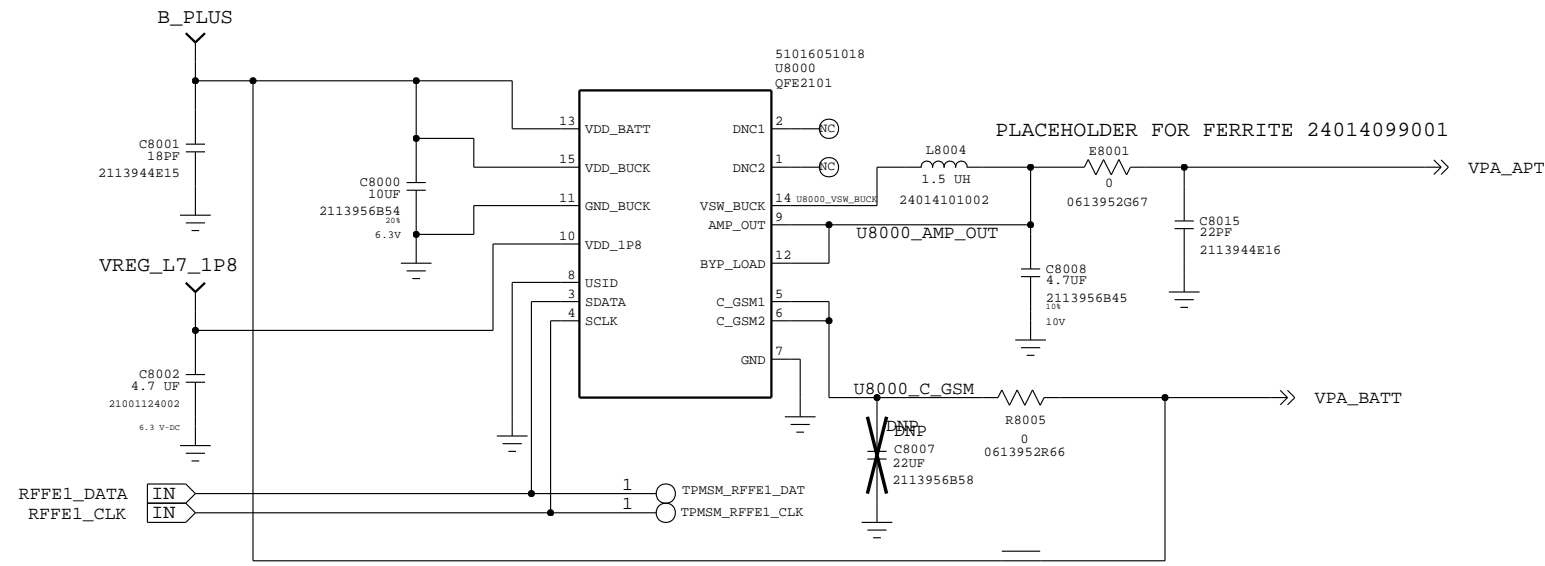
REVISIONS				
REV	ECN	DESCRIPTION	MADE BY	APPROVED



LAST MODIFIED: Mon May 11 16:30:14 2015

DRAWING NUMBER: 84		MOTOROLA	
DRAWN BY:	DATE:	TITLE:	REV 01
LEAD ENGINEER:	DATE:		SIZE C
ASSY NUMBER:	PCB FILE NAME:	PAGE 42 OF 47	

RFFE:QFE2101
REF 8000-8020



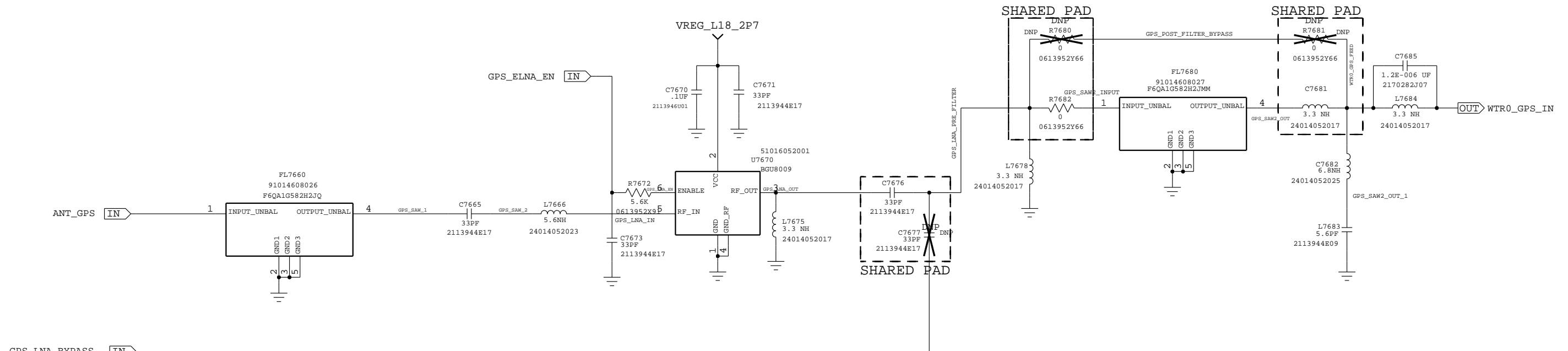
BYPASS OPTION FOR VPA_VBATT
DNP APPROPRIATELY

APPROVALS		MOTOROLA MOBILE DEVICES	
ENGINEER: MMI		BLOCK TITLE:	
LAST MODIFIED BY: MMI Mon May 11 16:30:17 2015		block_rffe	
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RFFE: GPS

REF 7650-7699

GPS



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