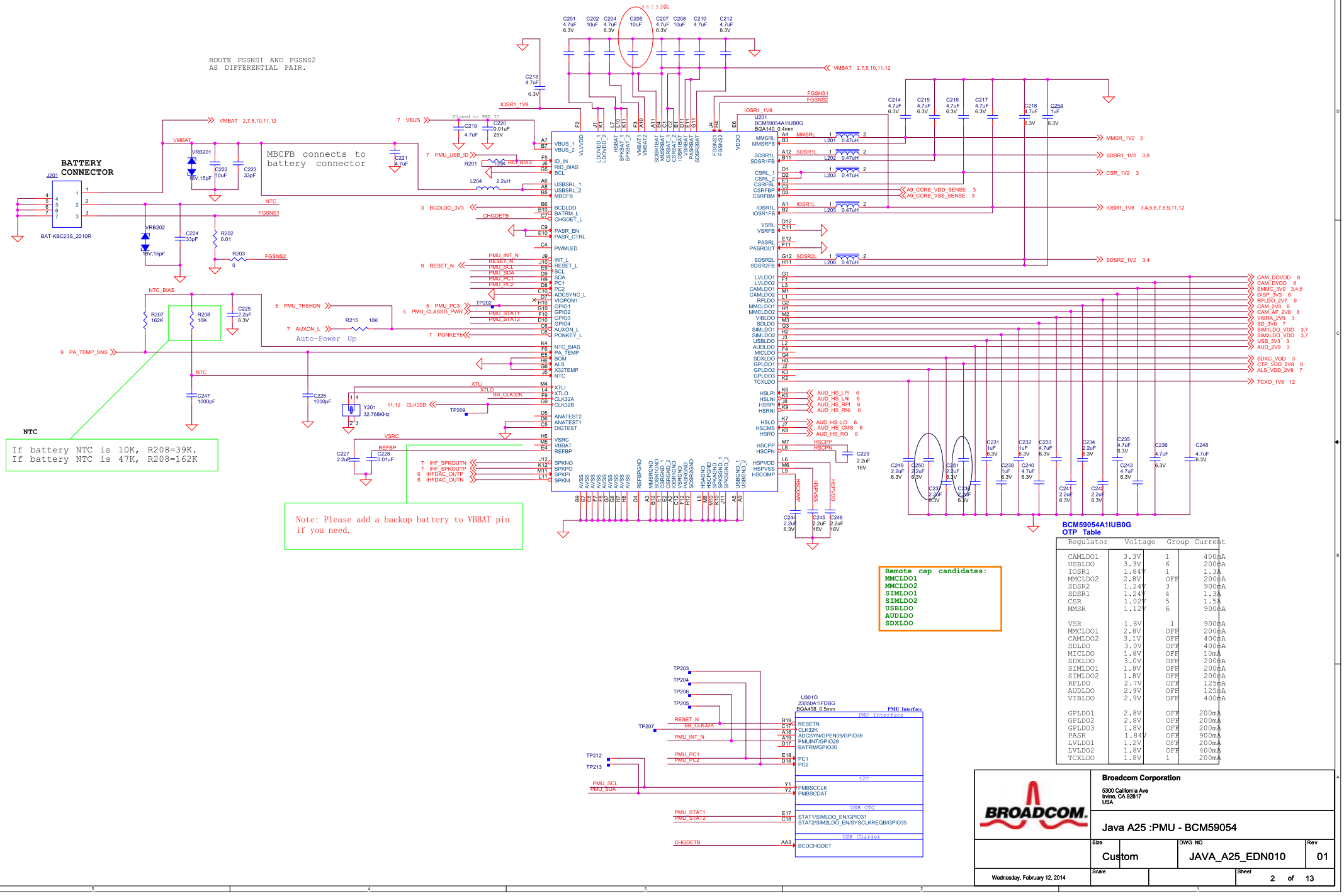
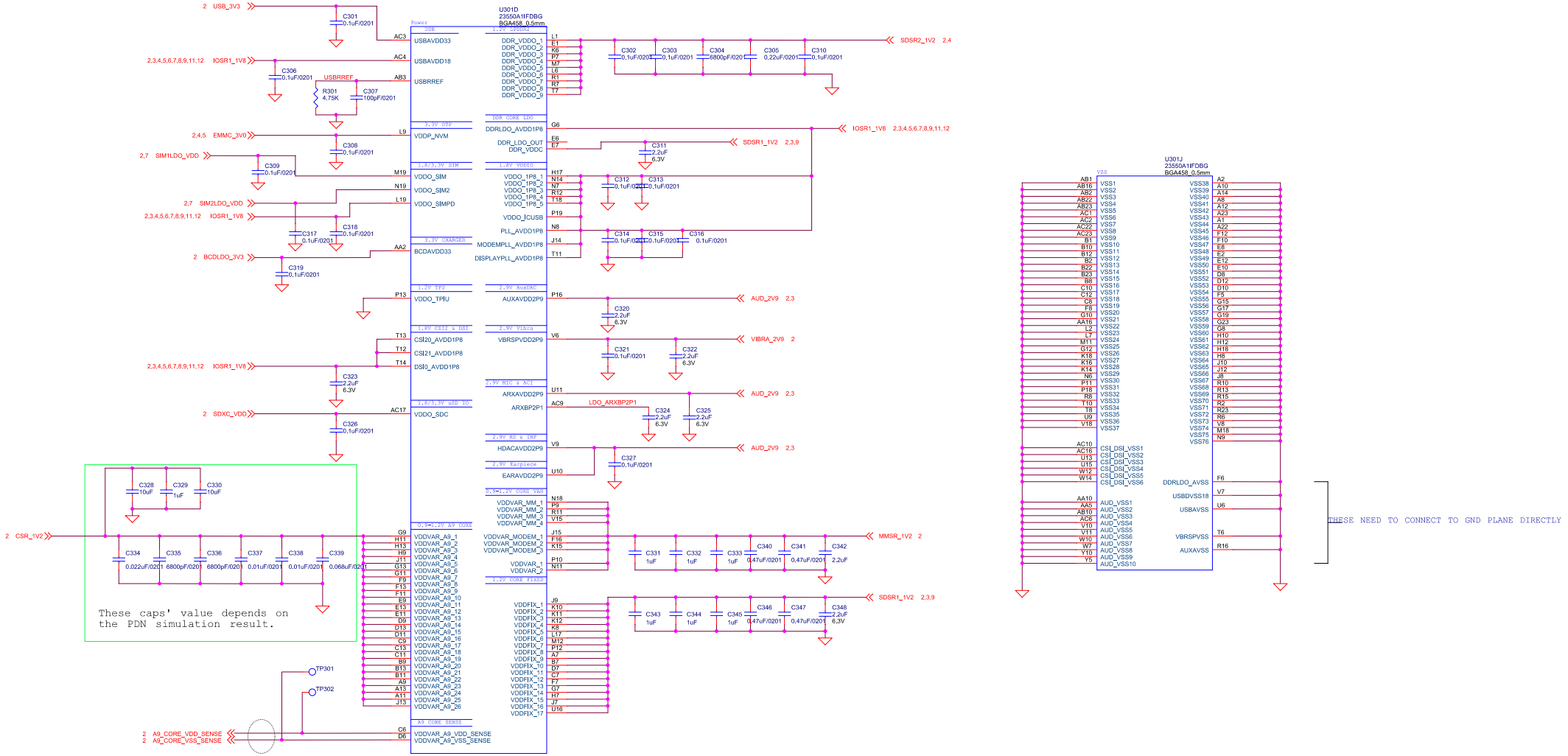
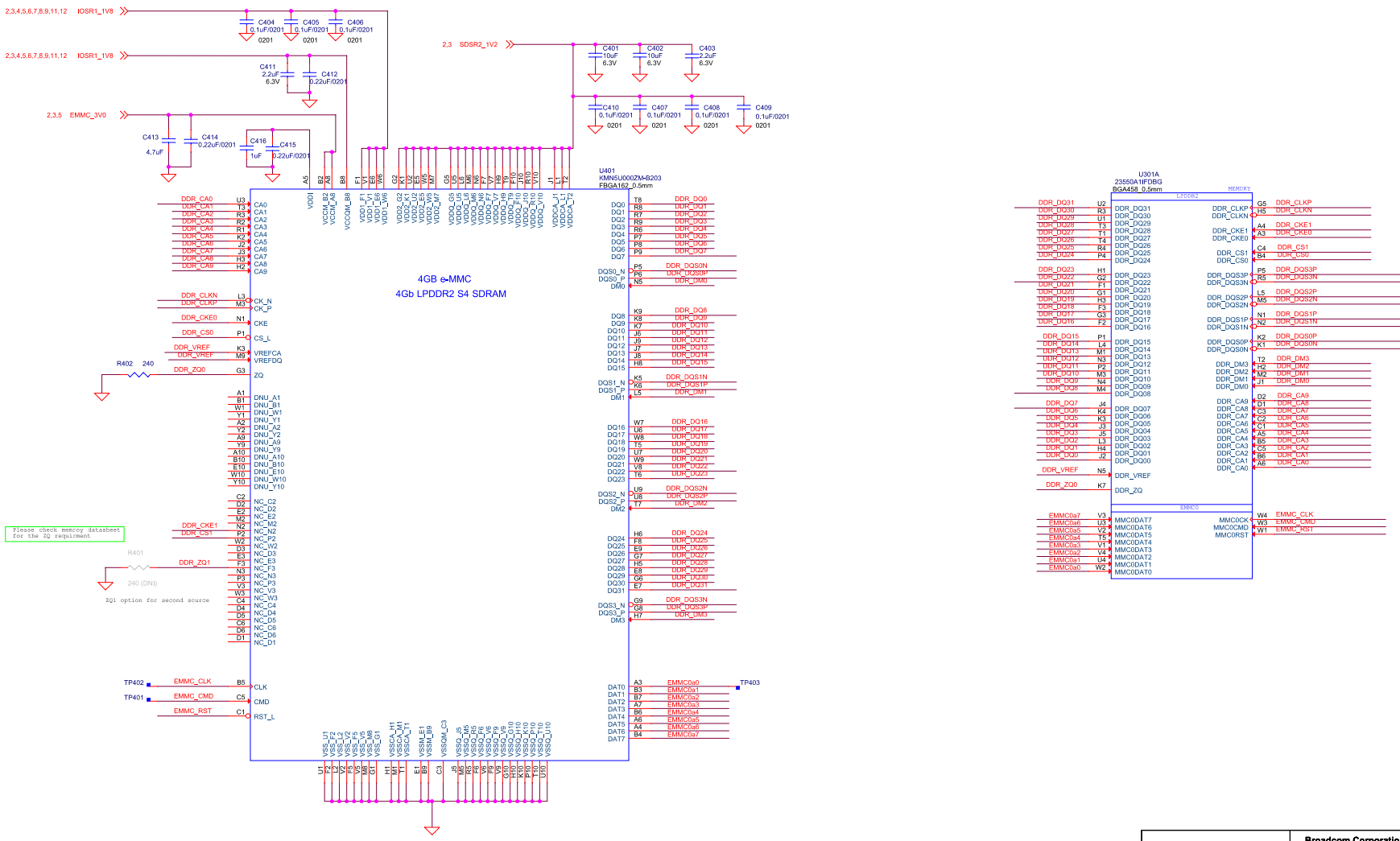
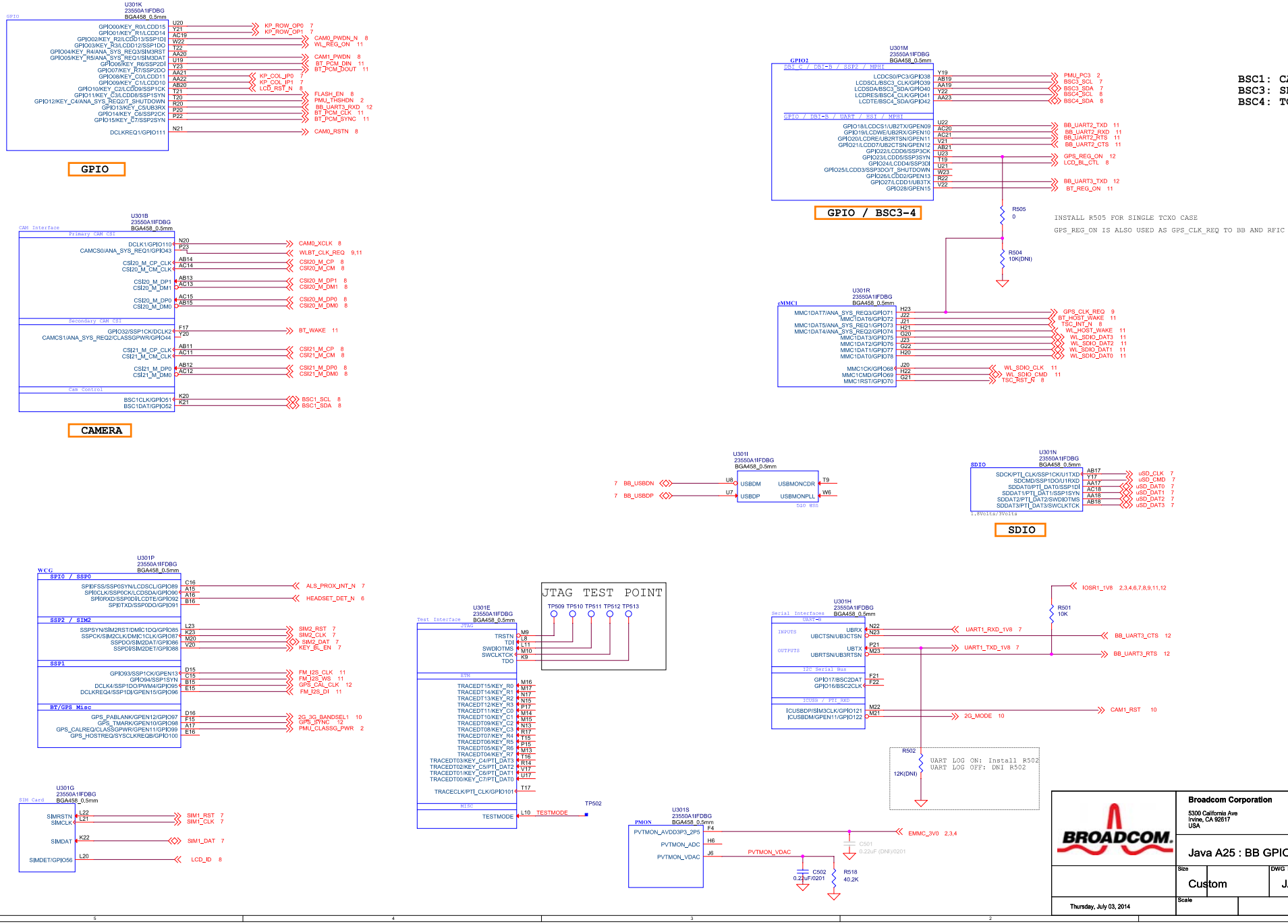

ROUTE FGSNS1 AND FGSNS2
AS DIFFERENTIAL PAIR.
BATTERY
CONNECTOR
J201
BAT-KBC23S_2210R
MBCFB connects to
battery connector
NTC
If battery NTC is 10K, R208=39K.
If battery NTC is 47K, R208=162K
Auto-Power Up
Note: Please add a backup battery to VBBAT pin
if you need.
Remote cap candidates:
MMCLDO1
MMCLDO2
SIMLDO1
SIMLDO2
USBLDO
AUDLDO
SDXLDO
BCM59054A1IUB0G
OTP Table
Regulator Voltage Group Current
CAMLDO1 3.3V 1 400mA
USBLDO 3.3V 6 200mA
IOSR1 1.84V 1 1.3A
MMCLDO2 2.8V OFF 200mA
SDSR2 1.24V 3 900mA
SDSR1 1.24V 4 1.3A
CSR 1.02V 5 1.5A
MMSR 1.12V 6 900mA
VSR 1.6V 1 900mA
MMCLDO1 2.8V OFF 200mA
CAMLDO2 3.1V OFF 400mA
SDLDO 3.0V OFF 400mA
MICLDO 1.8V OFF 10mA
SDXLDO 3.0V OFF 200mA
SIMLDO1 1.8V OFF 200mA
SIMLDO2 1.8V OFF 200mA
RFLDO 2.7V OFF 125mA
AUDLDO 2.9V OFF 125mA
VIBLDO 2.9V OFF 400mA
GPLDO1 2.8V OFF 200mA
GPLDO2 2.8V OFF 200mA
GPLDO3 1.8V OFF 200mA
PASR 1.84V OFF 900mA
LVLDO1 1.2V OFF 200mA
LVLDO2 1.8V OFF 400mA
TCXLDO 1.8V 1 200mA
Broadcom Corporation
5300 California Ave
Irvine, CA 92617
USA
Java A25 :PMU - BCM59054
Size Custom
DWG NO JAVA_A25_EDN010
Rev 01
Wednesday, February 12, 2014
Scale
Sheet 2 of 13

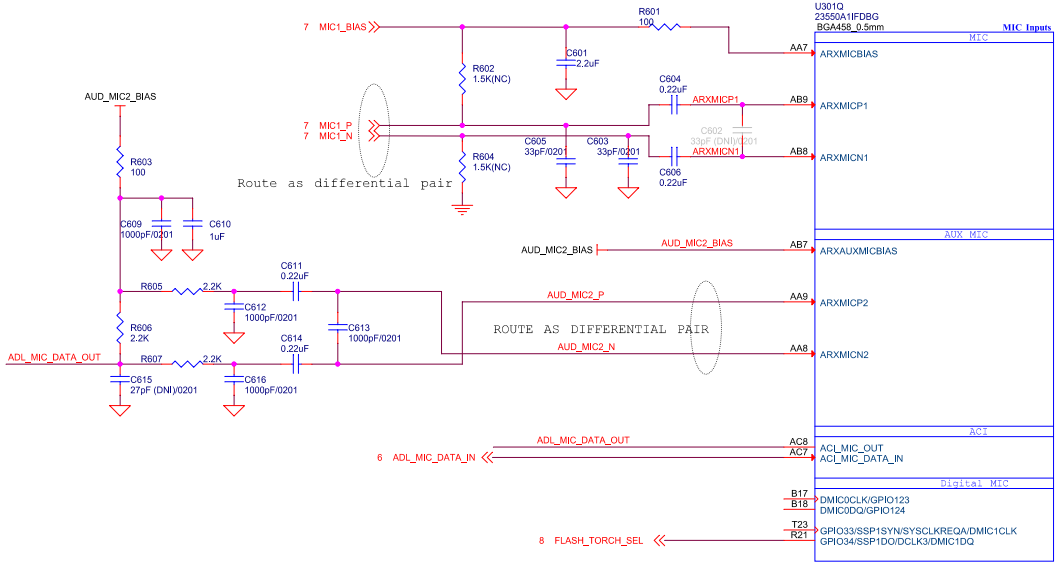


BROADCOM.	**Broadcom Corporation** 5300 California Ave Irvine, CA 92617 USA		
	Java A25 :BB POWER SUPPLIES		
	Size: Custom	DWG NO: JAVA_A25_EDN010	Rev: 01
Wednesday, February 12, 2014	Scale:	Sheet: 3 of 13	



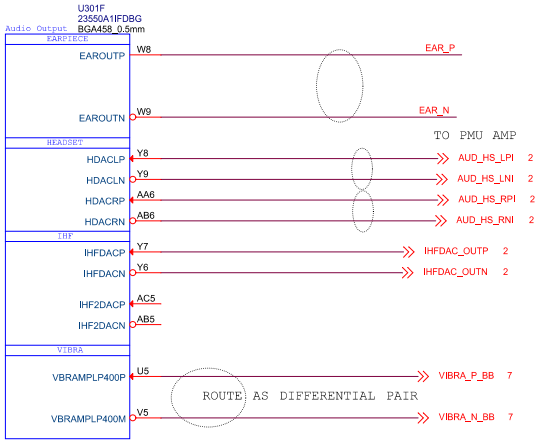
Broadcom Corporation 5300 California Ave Irvine, CA 92617 USA			
Java A25 :MEMORY - LPDDR, eMMC			
Size: Custom		DWG NO: JAVA_A25_EDN010	Rev: 01
Wednesday, February 12, 2014	Scale:		Sheet: 4 of 13


GPIO
U301K
23550A1IFDBG
BGA458_0.5mm
GPIO00/KEY_R0/LCDD15
GPIO01/KEY_R1/LCDD14
GPIO02/KEY_R2/LCDD13/SSP1DI
GPIO03/KEY_R3/LCDD12/SSP1DO
GPIO04/KEY_R4/ANA_SYS_REQ3/SIM2RST
GPIO05/KEY_R5/ANA_SYS_REQ1/SIM3DAT
GPIO06/KEY_R6/SSP2DI
GPIO07/KEY_R7/SSP2DO
GPIO08/KEY_C0/LCDD11
GPIO09/KEY_C1/LCDD10
GPIO10/KEY_C2/LCDD9/SSP1CK
GPIO11/KEY_C3/LCDD8/SSP1SYN
GPIO12/KEY_C4/ANA_SYS_REQ2/T_SHUTDOWN
GPIO13/KEY_C5/UB3RX
GPIO14/KEY_C6/SSP2CK
GPIO15/KEY_C7/SSP2SYN
DCLKREQ1/GPIO111
KP_ROW_OP0
KP_ROW_OP1
CAM0_PWDN_N
WL_REG_ON
CAM1_PWDN
BT_PCM_DIN
BT_PCM_DOUT
KP_COL_IP0
KP_COL_IP1
LCD_RST_N
FLASH_EN
PMU_THSHDN
BB_UART3_RXD
BT_PCM_CLK
BT_PCM_SYNC
CAM0_RSTN
GPIO
U301M
23550A1IFDBG
BGA458_0.5mm
GPIO2
DBT_C / DBT-B / SSP2 / MPHI
LCDCS0/PC3/GPIO38
LCDSCL/BSC3_CLK/GPIO39
LCDSDA/BSC3_SDA/GPIO40
LCDRES/BSC4_CLK/GPIO41
LCDTE/BSC4_SDA/GPIO42
GPIO / DBT-B / UART / HSI / MPHI
GPIO18/LCDCS1/UB2TX/GPEN09
GPIO19/LCDWE/UB2RX/GPEN10
GPIO20/LCDRE/UB2RTSN/GPEN11
GPIO21/LCDD7/UB2CTSN/GPEN12
GPIO22/LCDD6/SSP3CK
GPIO23/LCDD5/SSP3SYN
GPIO24/LCDD4/SSP3DI
GPIO25/LCDD3/SSP3DO/T_SHUTDOWN
GPIO26/LCDD2/GPEN13
GPIO27/LCDD1/UB3TX
GPIO28/GPEN15
PMU_PC3
BSC3_SCL
BSC3_SDA
BSC4_SCL
BSC4_SDA
BB_UART2_TXD
BB_UART2_RXD
BB_UART2_RTS
BB_UART2_CTS
GPS_REG_ON
LCD_BL_CTL
BB_UART3_TXD
BT_REG_ON
GPIO / BSC3-4
R505
0
R504
10K(DNI)
INSTALL R505 FOR SINGLE TCXO CASE
GPS_REG_ON IS ALSO USED AS GPS_CLK_REQ TO BB AND RFIC
BSC1: CAMERA
BSC3: SENSORS
BSC4: TOUCH SCREEN
U301B
23550A1IFDBG
BGA458_0.5mm
CAM Interface
Primary CAM CSI
DCLK1/GPIO110
CAMCS0/ANA_SYS_REQ1/GPIO43
CSI20_M_CP_CLK
CSI20_M_CM_CLK
CSI20_M_DP1
CSI20_M_DM1
CSI20_M_DP0
CSI20_M_DM0
CAM0_XCLK
WLBT_CLK_REQ
CSI20_M_CP
CSI20_M_CM
CSI20_M_DP1
CSI20_M_DM1
CSI20_M_DP0
CSI20_M_DM0
Secondary CAM CSI
GPIO32/SSP1CK/DCLK2
CAMCS1/ANA_SYS_REQ2/CLASSGPWR/GPIO44
CSI21_M_CP_CLK
CSI21_M_CM_CLK
CSI21_M_DP0
CSI21_M_DM0
BT_WAKE
CSI21_M_CP
CSI21_M_CM
CSI21_M_DP0
CSI21_M_DM0
Cam Control
BSC1CLK/GPIO51
BSC1DAT/GPIO52
BSC1_SCL
BSC1_SDA
CAMERA
U301R
23550A1IFDBG
BGA458_0.5mm
eMMC1
MMC1DAT7/ANA_SYS_REQ3/GPIO71
MMC1DAT6/GPIO72
MMC1DAT5/ANA_SYS_REQ1/GPIO73
MMC1DAT4/ANA_SYS_REQ2/GPIO74
MMC1DAT3/GPIO75
MMC1DAT2/GPIO76
MMC1DAT1/GPIO77
MMC1DAT0/GPIO78
MMC1CK/GPIO68
MMC1CMD/GPIO69
MMC1RST/GPIO70
GPS_CLK_REQ
BT_HOST_WAKE
TSC_INT_N
WL_HOST_WAKE
WL_SDIO_DAT3
WL_SDIO_DAT2
WL_SDIO_DAT1
WL_SDIO_DAT0
WL_SDIO_CLK
WL_SDIO_CMD
TSC_RST_N
U301I
23550A1IFDBG
BGA458_0.5mm
BB_USBDN
BB_USBDP
USBDM
USBDP
USBMONCDR
USBMONPLL
U301N
23550A1IFDBG
BGA458_0.5mm
SDIO
SDCK/PTI_CLK/SSP1CK/U1TXD
SDCMD/SSP1DO/U1RXD
SDDAT0/PTI_DAT0/SSP1DI
SDDAT1/PTI_DAT1/SSP1SYN
SDDAT2/PTI_DAT2/SWDIOTMS
SDDAT3/PTI_DAT3/SWCLKTCK
1.8Volts/3Volts
uSD_CLK
uSD_CMD
uSD_DAT0
uSD_DAT1
uSD_DAT2
uSD_DAT3
SDIO
U301P
23550A1IFDBG
BGA458_0.5mm
WCG
SPI0 / SSP0
SPI0FSS/SSP0SYN/LCDSCL/GPIO89
SPI0CLK/SSP0CK/LCDSDA/GPIO90
SPI0RXD/SSP0DI/LCDTE/GPIO92
SPI0TXD/SSP0DO/GPIO91
ALS_PROX_INT_N
HEADSET_DET_N
SSP2 / SIM2
SSPSYN/SIM2RST/DMIC1DQ/GPIO85
SSPCK/SIM2CLK/DMIC1CLK/GPIO87
SSPDO/SIM2DAT/GPIO86
SSPDI/SIM2DET/GPIO88
SIM2_RST
SIM2_CLK
SIM2_DAT
KEY_BL_EN
SSP1
GPIO93/SSP1CK/GPEN13
GPIO94/SSP1SYN
DCLK4/SSP1DO/PWM4/GPIO95
DCLKREQ4/SSP1DI/GPEN15/GPIO96
FM_I2S_CLK
FM_I2S_WS
GPS_CAL_CLK
FM_I2S_DI
BT/GPS Misc
GPS_PABLANK/GPEN12/GPIO97
GPS_TMARK/GPEN10/GPIO98
GPS_CALREQ/CLASSGPWR/GPEN11/GPIO99
GPS_HOSTREQ/SYSCLKREQB/GPIO100
2G_3G_BANDSEL1
GPS_SYNC
PMU_CLASSG_PWR
U301G
23550A1IFDBG
BGA458_0.5mm
SIM Card
SIMRSTN
SIMCLK
SIMDAT
SIMDET/GPIO56
SIM1_RST
SIM1_CLK
SIM1_DAT
LCD_ID
JTAG TEST POINT
TP509 TP510 TP511 TP512 TP513
U301E
23550A1IFDBG
BGA458_0.5mm
Test Interface
JTAG
TRSTN
TDI
SWDIOTMS
SWCLKTCK
TDO
ETM
TRACEDT15/KEY_R0
TRACEDT14/KEY_R1
TRACEDT13/KEY_R2
TRACEDT12/KEY_R3
TRACEDT11/KEY_C0
TRACEDT10/KEY_C1
TRACEDT09/KEY_C2
TRACEDT08/KEY_C3
TRACEDT07/KEY_R4
TRACEDT06/KEY_R5
TRACEDT05/KEY_R6
TRACEDT04/KEY_R7
TRACEDT03/KEY_C4/PTI_DAT3
TRACEDT02/KEY_C5/PTI_DAT2
TRACEDT01/KEY_C6/PTI_DAT1
TRACEDT00/KEY_C7/PTI_DAT0
TRACECLK/PTI_CLK/GPIO101
MISC
TESTMODE
TESTMODE
TP502
U301H
23550A1IFDBG
BGA458_0.5mm
Serial Interfaces
UART-B
INPUTS
OUTPUTS
UBRX
UBCTSN/UB3CTSN
UBTX
UBRTSN/UB3RTSN
I2C Serial Bus
GPIO17/BSC2DAT
GPIO16/BSC2CLK
ICUSB / PTI_RXD
ICUSBDP/SIM3CLK/GPIO121
ICUSBDM/GPEN11/GPIO122
IOSR1_1V8
R501
10K
UART1_RXD_1V8
UART1_TXD_1V8
BB_UART3_CTS
BB_UART3_RTS
2G_MODE
CAM1_RST
R502
12K(DNI)
UART LOG ON: Install R502
UART LOG OFF: DNI R502
U301S
23550A1IFDBG
BGA458_0.5mm
PMON
PVTMON_AVDD3P3_2P5
PVTMON_ADC
PVTMON_VDAC
EMMC_3V0
C501
0.22uF (DNI)/0201
C502
0.22uF/0201
R518
40.2K
Broadcom Corporation
5300 California Ave
Irvine, CA 92617
USA
Java A25 : BB GPIOS
Size
Custom
DWG NO
JAVA_A25_EDN010
Rev
01
Thursday, July 03, 2014
Scale
Sheet
5 of 13



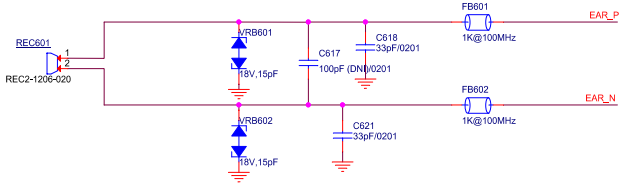
EARPIECE

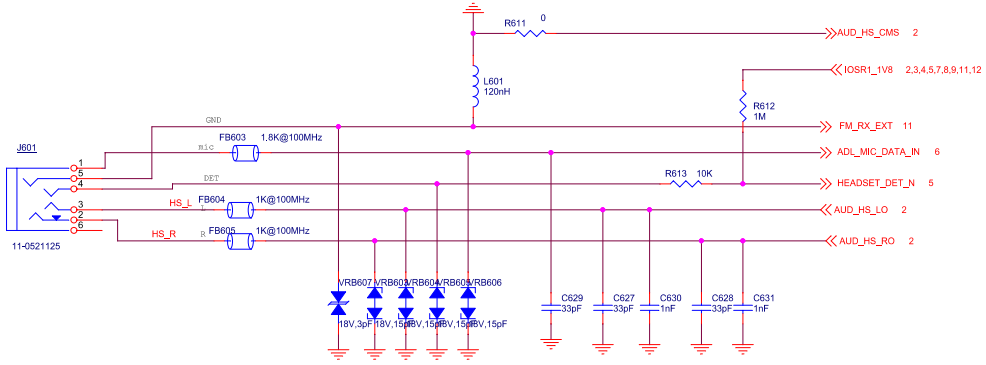
ROUTE AS DIFFERENTIAL PAIR



Digital MIC: DNI by default

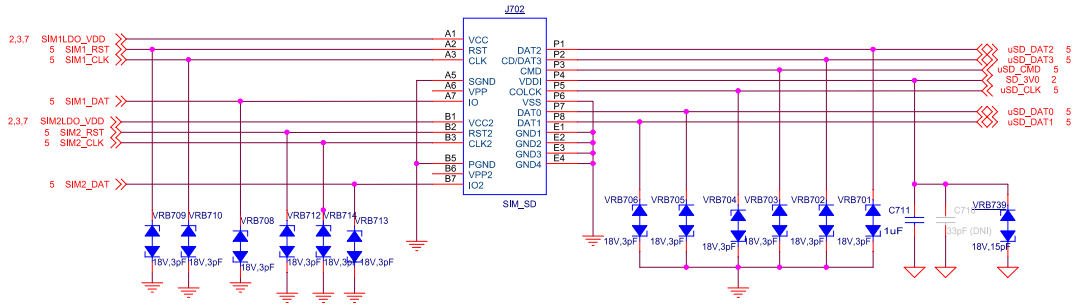
Place these parts close to receiver

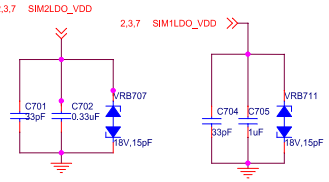




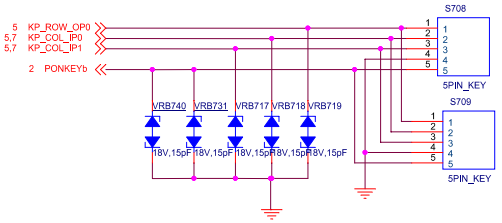
Stereo PA: DNI by default

Broadcom Corporation 5300 California Ave Irvine, CA 92617 USA			
Java A25 : AUDIO			
Size: Custom		DWG NO: JAVA_A25_EDN010	Rev: 01
Wednesday, February 12, 2014	Scale:		Sheet: 6 of 13



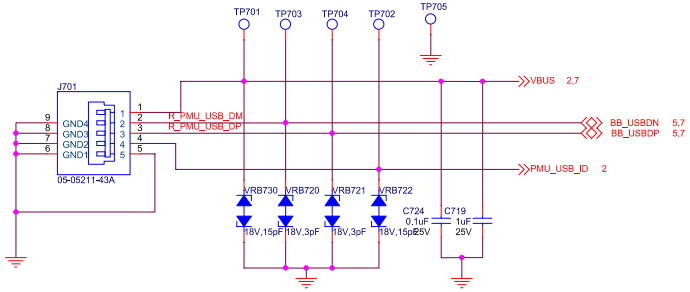


Volume Up Down,ponkey

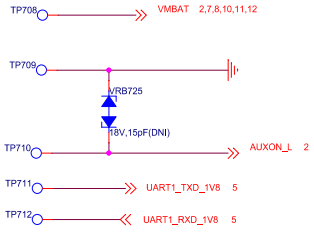


S1 Vol + : ROW_OP0 and COL_IP1
S2 Vol - : ROW_OP0 and COL_IP0

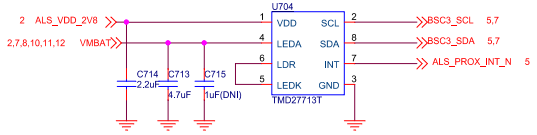
FPC



FACTORY TEST POINTS



ALS & PS Sensor

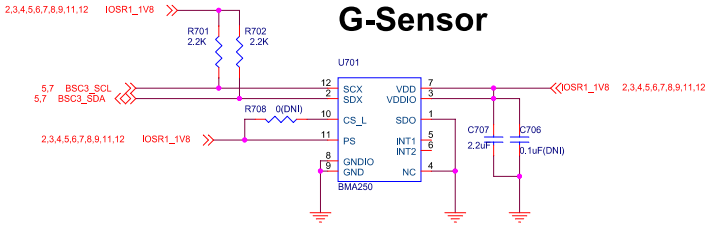


TAOS TMD 27713

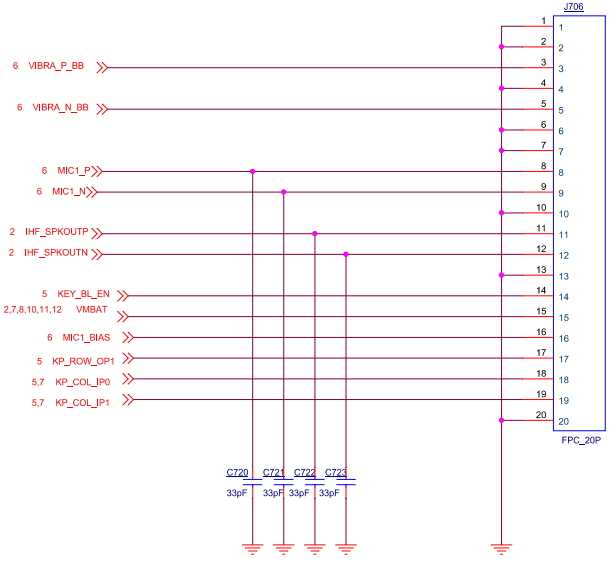
ADDRESS 0x39
I2C Vbus = 1.8V interface
TAOS TMD 27713

ADDRESS 0x39
I2C Vbus = 1.8V interface

G-Sensor



I2C ADDR = 0x18 BMA250
I2C ADDR = 0x0E KXTJ2-1009

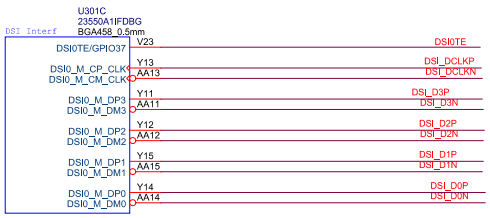


Broadcom Corporation
5300 California Ave
Irvine, CA 92617
USA

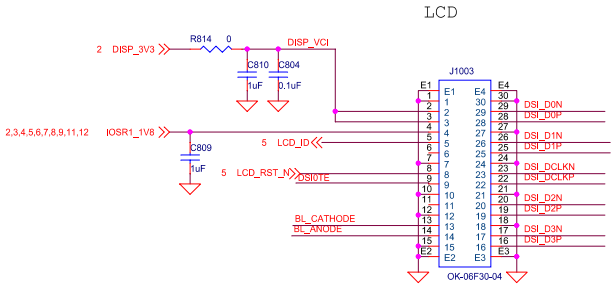
Java A25 : SIM, SD,USB,SENSOR,FPC

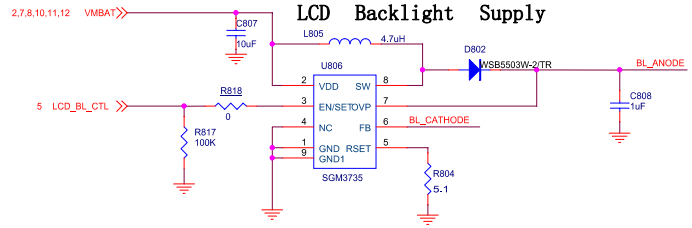
Size	DWG NO	Rev
Custom	JAVA_A25_EDN010	01

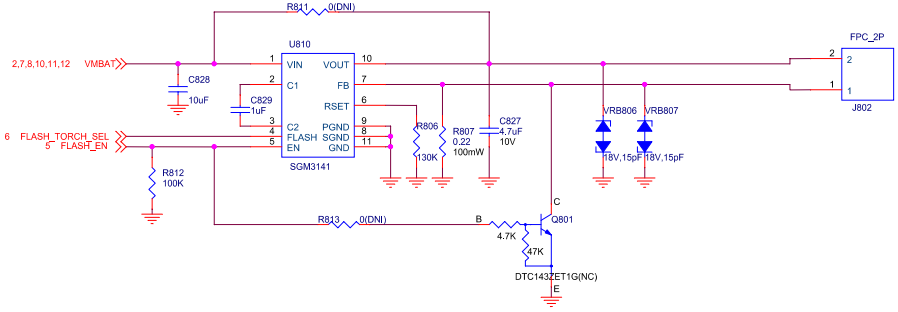
Wednesday, February 12, 2014 | Scale | Sheet 7 of 13



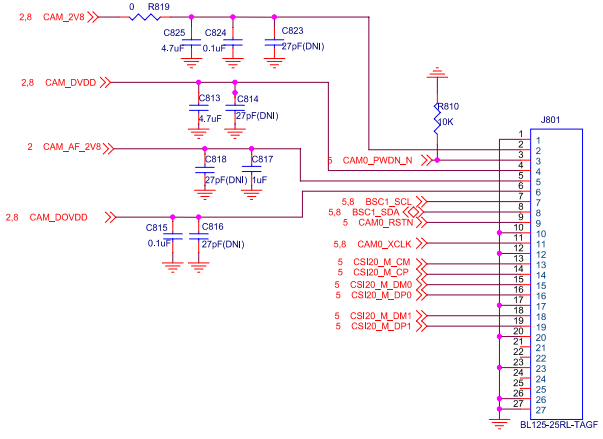
DSI SIGNALS TO BE ROUTED AS 100 OHMS DIFFERENTIAL PAIR

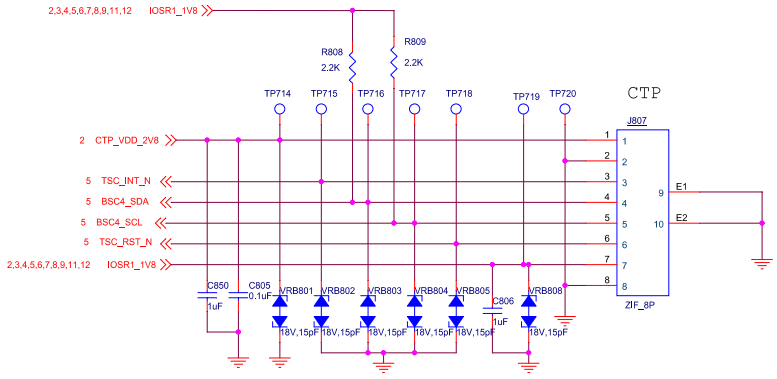




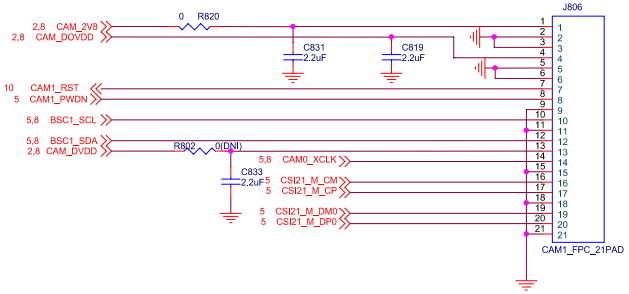


MAIN CAM



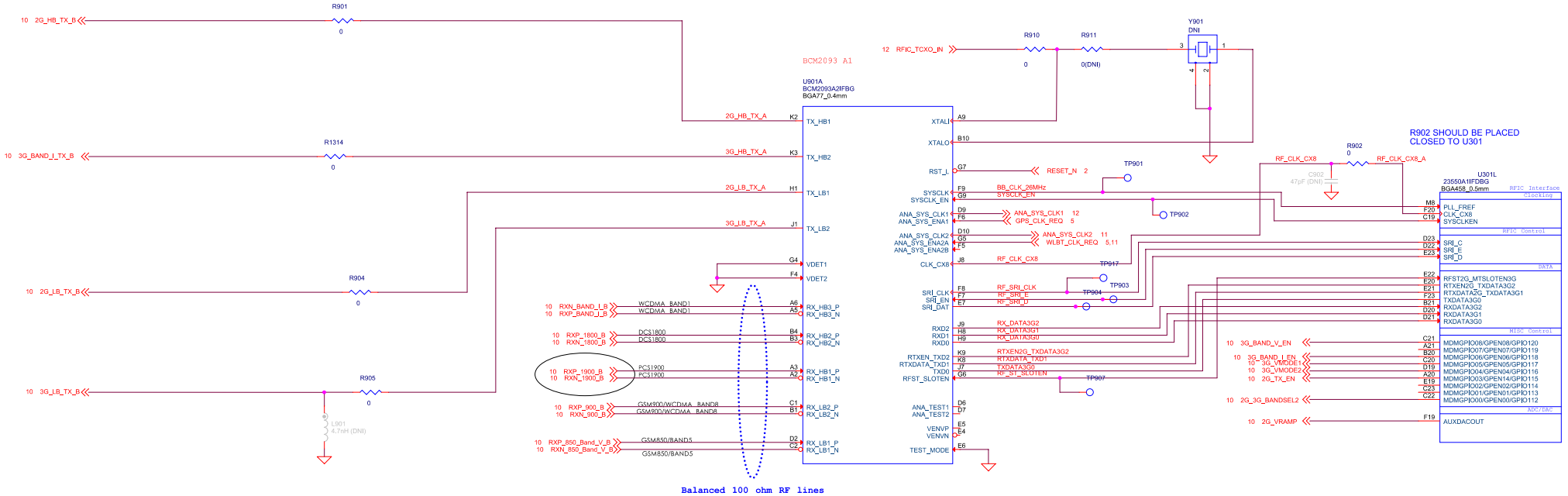


Front Camera
0.3M SP0A28

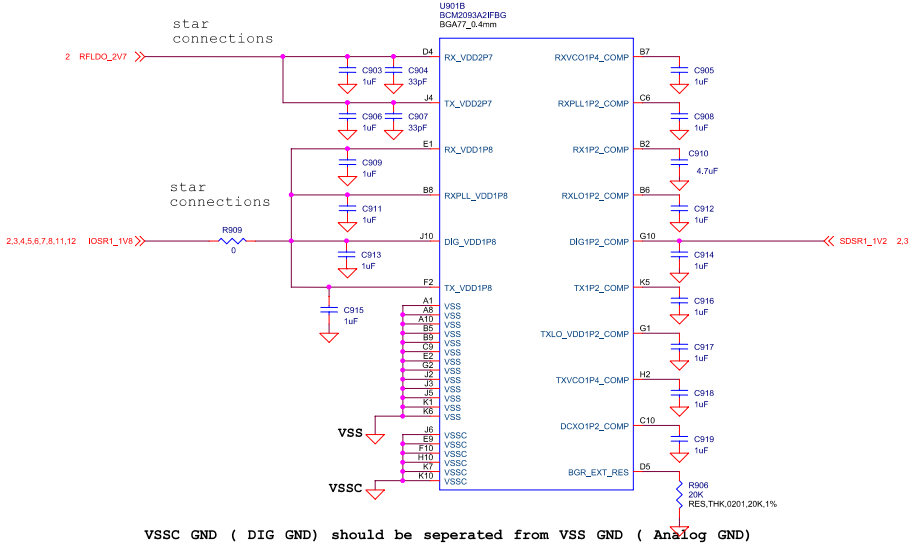


cap instead of EMI filter, for the front cam data speed is not very fast.

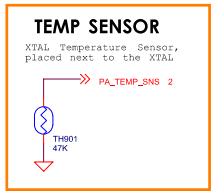
Broadcom Corporation 5300 California Ave Irvine, CA 92617 USA			
Java A25 : LCD, TOUCH PANEL,CAMERA			
Size: Custom		DWG NO: JAVA_A25_EDN010	Rev: 01
Wednesday, February 12, 2014	Scale:		Sheet: 8 of 13



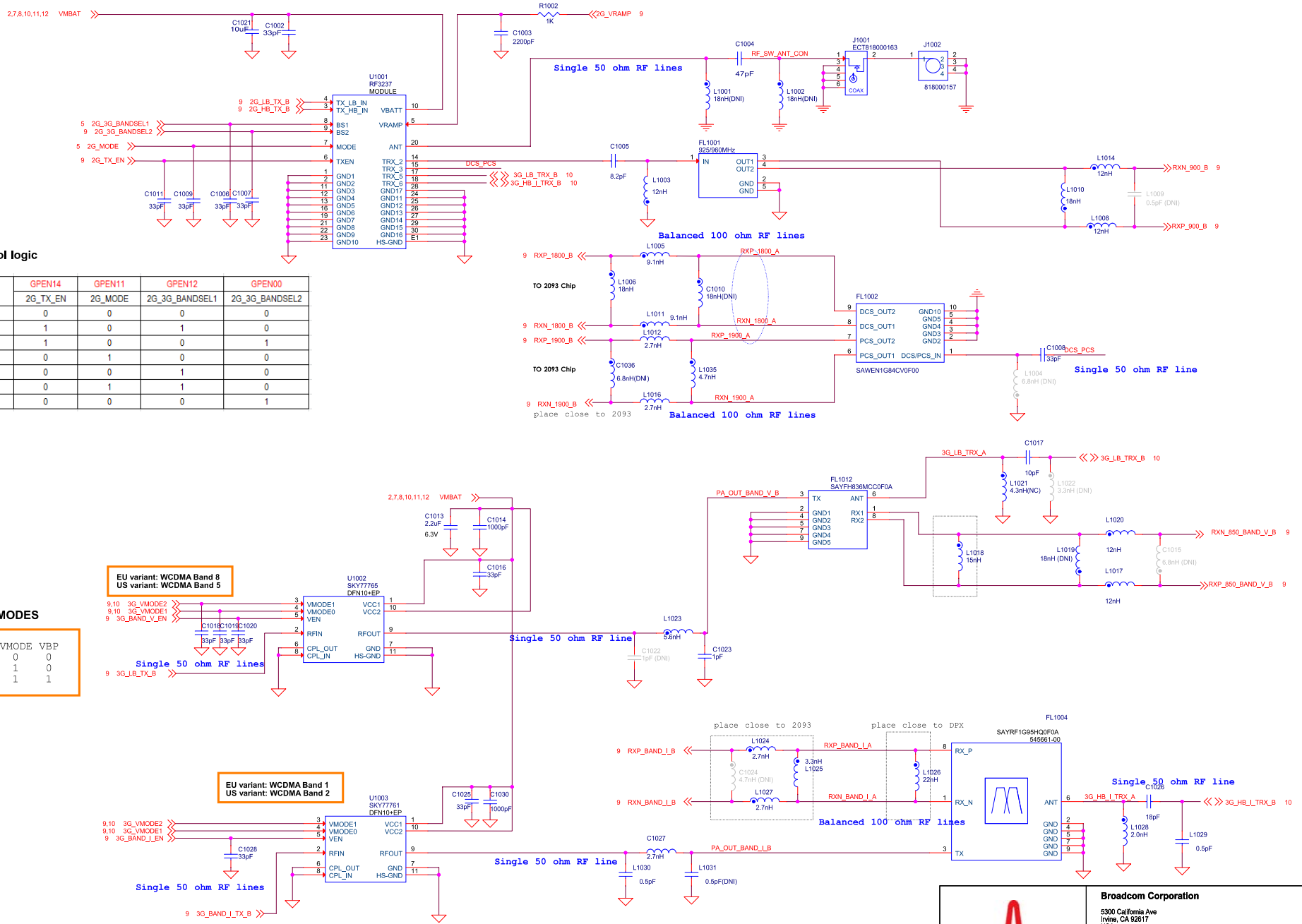
Balanced 100 ohm RF lines



VSSC GND (DIG GND) should be seperated from VSS GND (Analog GND)



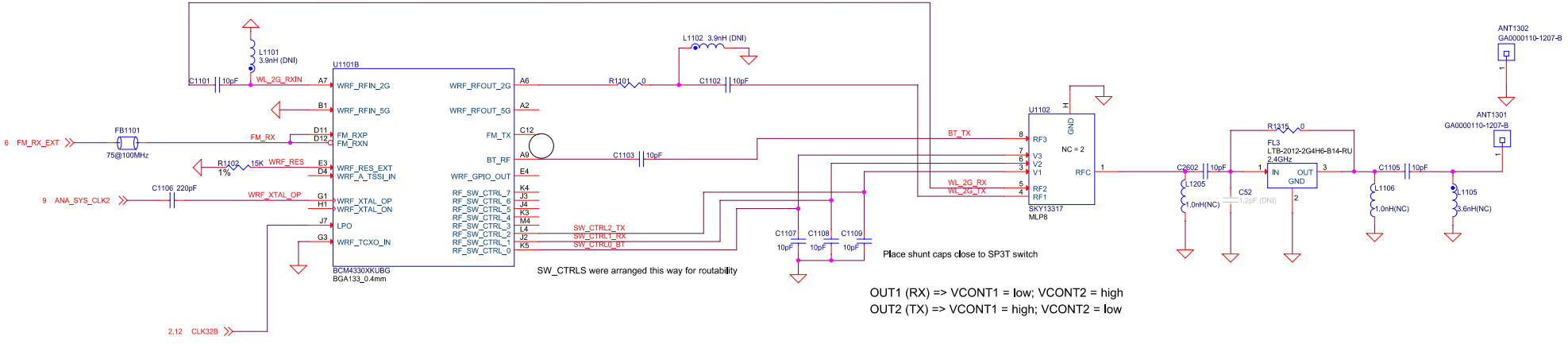
BROADCOM	Broadcom Corporation 5300 California Ave Irvine, CA 92617 USA		
	Java A25 : RFIC - BCM2093		
	Size: Custom	DWG NO: JAVA_A25_EDN010	Rev: 01
Wednesday, February 12, 2014	Scale:	Sheet: 9 of 13	

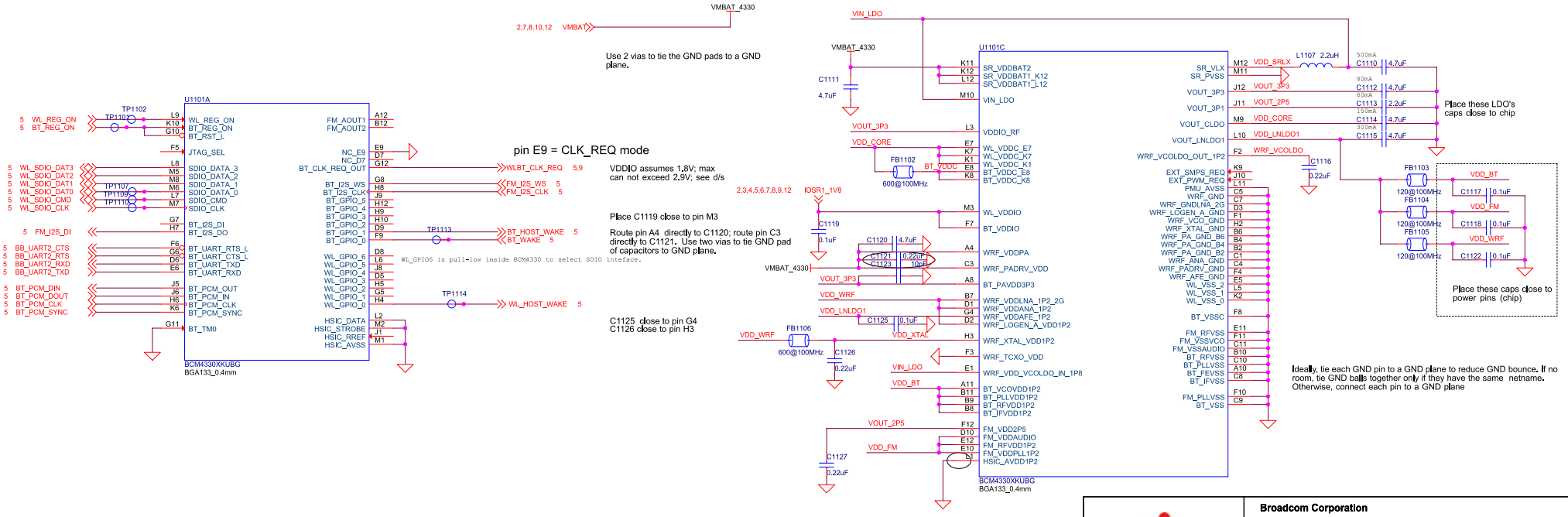


Broadcom Corporation	5300 California Ave, Irvine, CA 92617, USA
Java A25 : RF - 2/3G PA,FEM, ANT	
Size: Custom	DWG NO: JAVA_A25_EDN010
Rev: 01	
Wednesday, February 12, 2014	Scale:
Sheet: 10 of 13	

WLAN/BT/FM

Dual-Band, Single Antenna



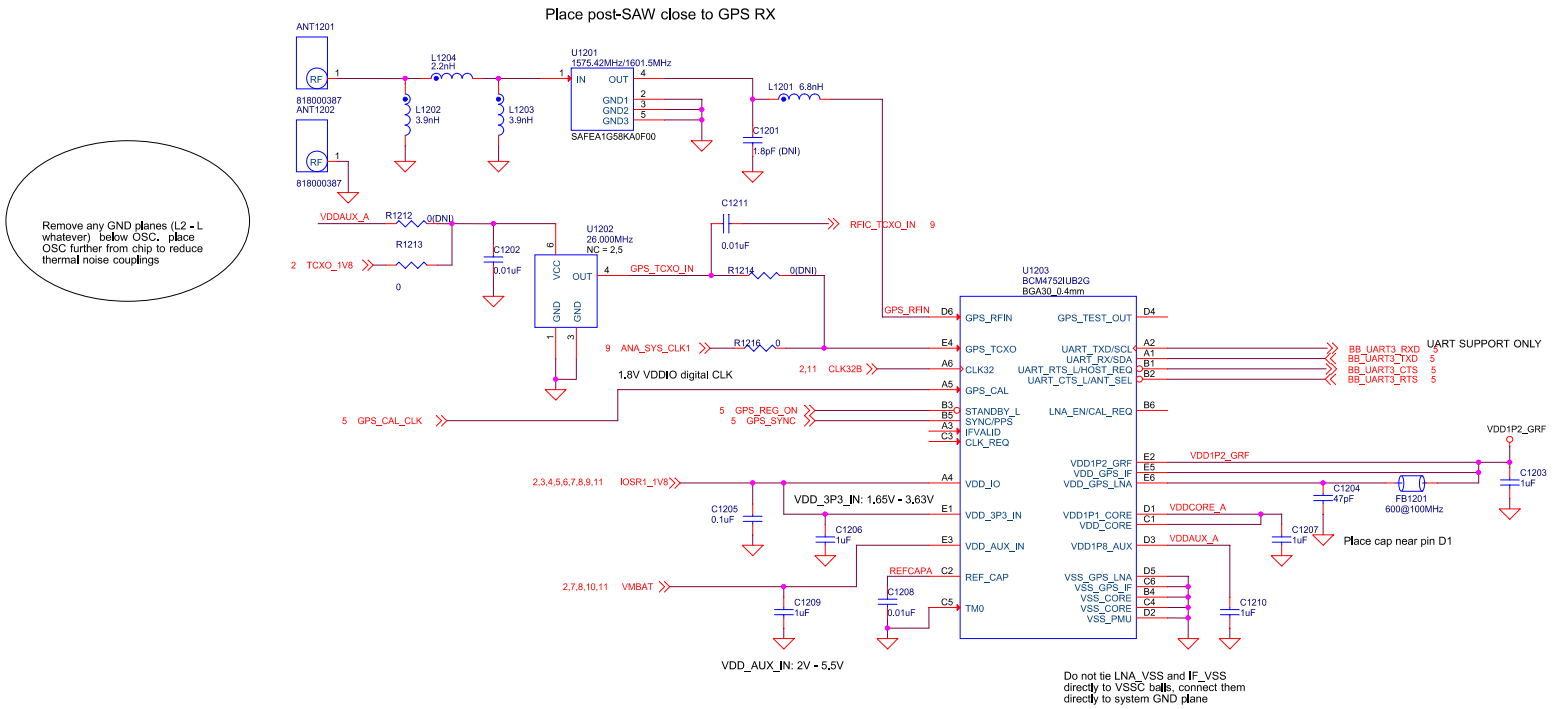


Broadcom Corporation
5300 California Ave
Irvine, CA 92617
USA

Java A25 : WLAN/BT/FM - BCM4330

Size	DWG NO	Rev
Custom	JAVA_A25_EDN010	01

Wednesday, February 12, 2014	Scale	Sheet
		11 of 13



ALL PASSIVE COMPONENTS ARE 0402 SIZE UNLESS OTHERWISE NOTED

Broadcom Corporation

5300 California Ave
Irvine, CA 92617
USA

Java A25 : GPS - BCM4752WLBGA

Size	DWG NO	Rev
Custom	JAVA_A25_EDN010	01

Wednesday, February 12, 2014	Scale	Sheet
		12 of 13