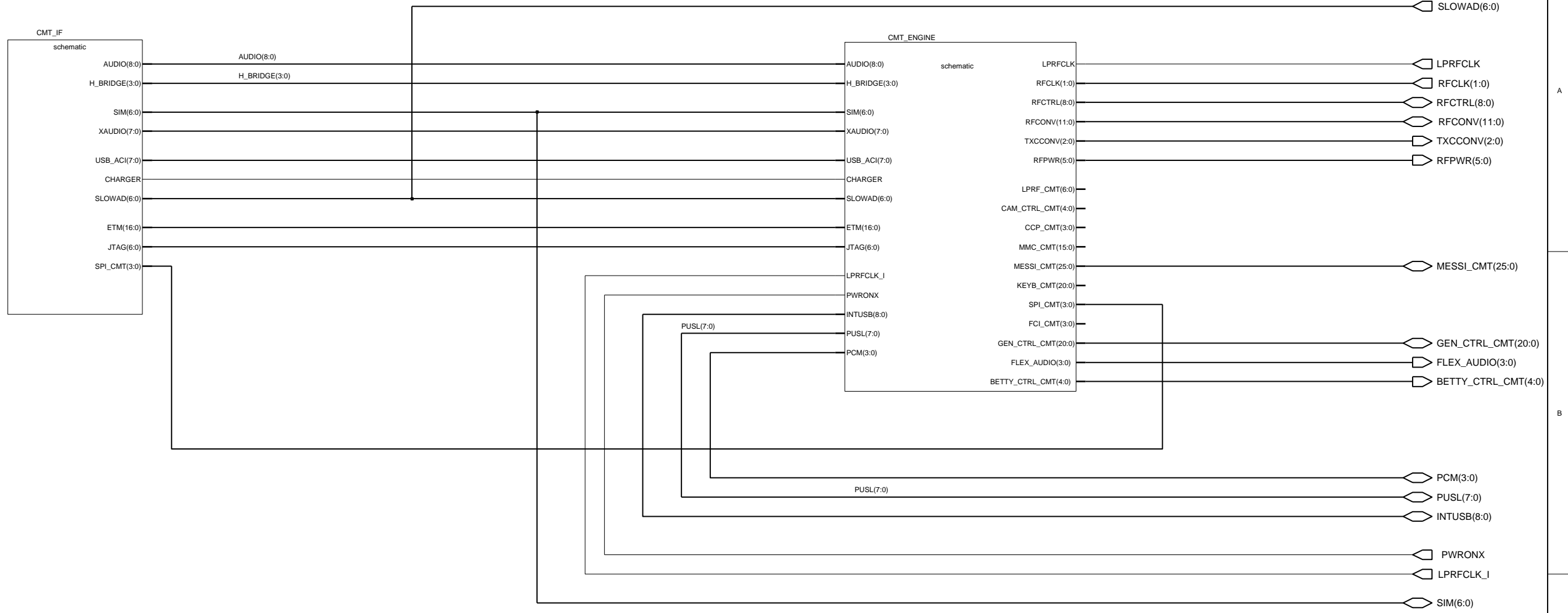


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| | | | |
|-------|--|-------|------------------------|
| Name | BB Top Level | Appr | dd-mmm-yy |
| Assoc | Vilbet | Build | B 1.0 |
| | | Des. | ILJARVIN 18-Aug-03 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/SYS | | Sheet 03 of yy 0 (01) |
| Proj | WG3.2 | Draw. | Print Yes v. 02 Edit 2 |

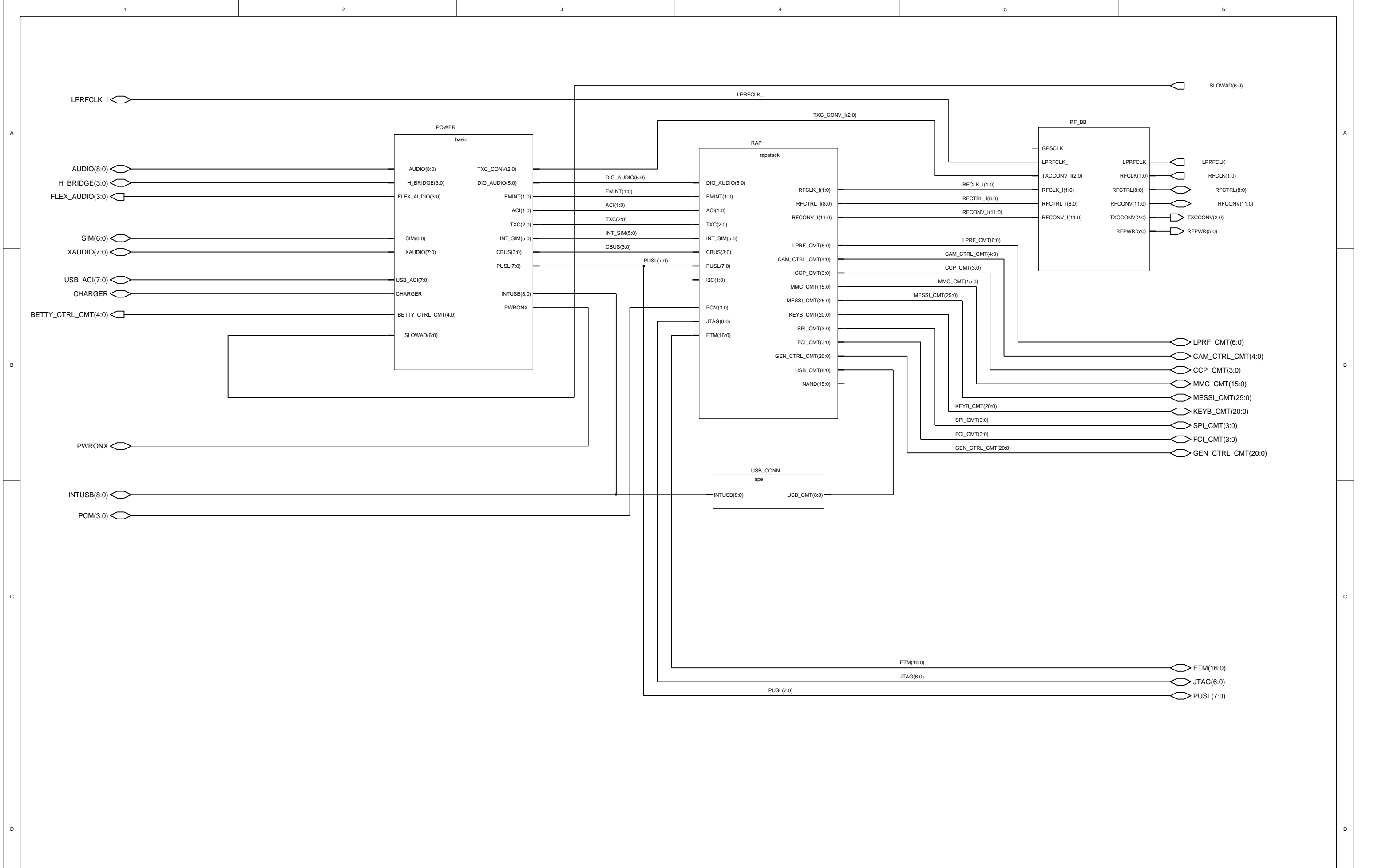


ANT

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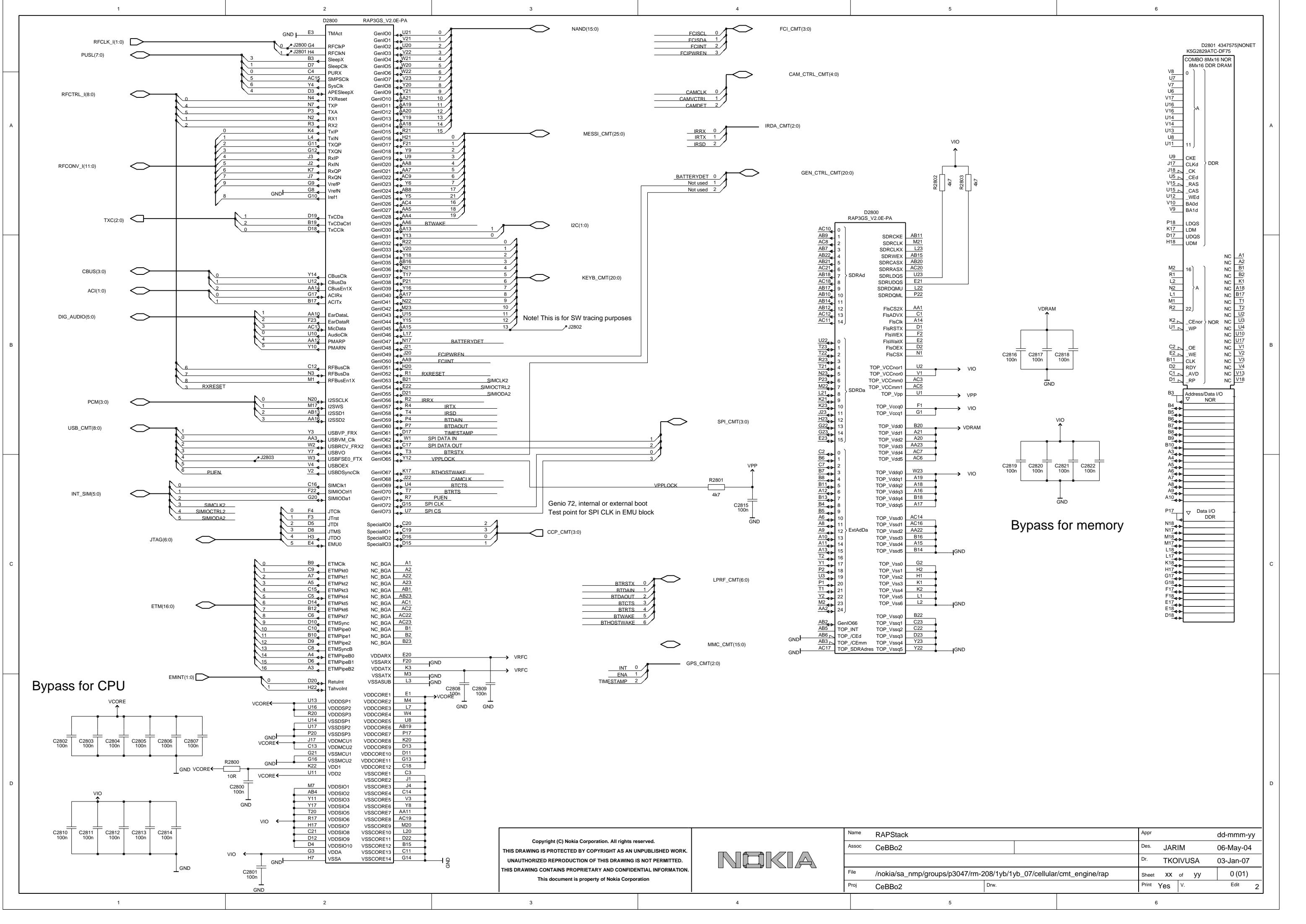
| | | | |
|-------|---|-------|--------------------|
| Name | BB Top Level | Appr | dd-mmm-yy |
| Assoc | Villie | Des. | KAYRA 14-Jan-03 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | CBB5X | Sheet | xx of yy 0 (01) |
| | | Print | Yes v. 0 Edit 2 |



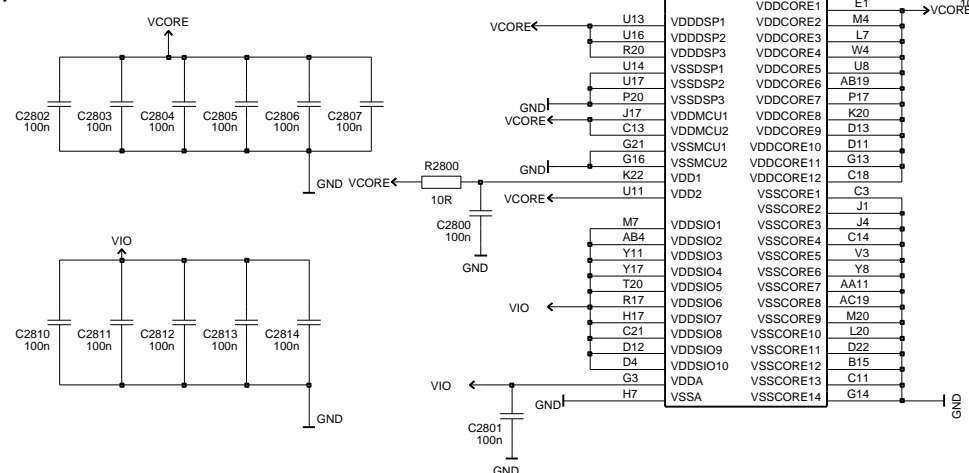
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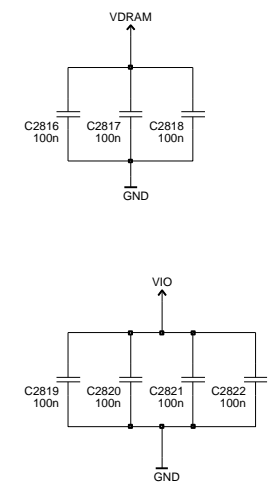
| | | | |
|-------|--|-------|-------------------------|
| Name | CMT_Engine Top level | Appr | dd-mmm-yy |
| Assoc | Engine Release Database | Des. | ArKa 27-May-03 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_engine | | Sheet xx of yy 0 (01) |
| Proj | Cement | Draw. | Print Yes v. 0.0 Edit 2 |



Bypass for CPU



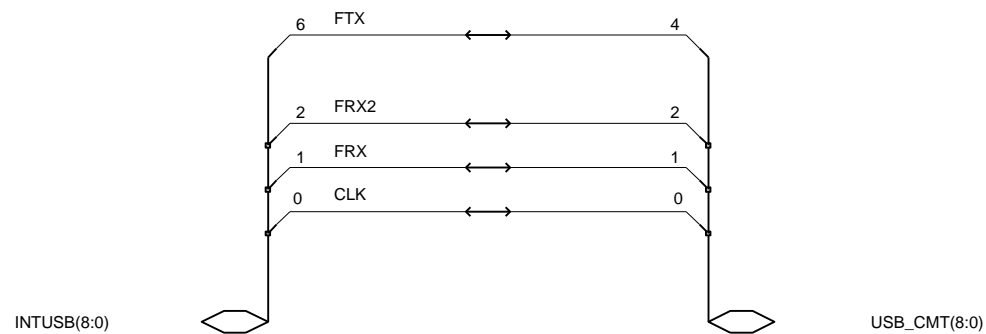
Bypass for memory



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| | | | |
|-------|--|-------|--------------------|
| Name | RAPStack | Appr | dd-mmm-yy |
| Assoc | CeBBo2 | Des. | JARIM 06-May-04 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_engine/rap | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | CeBBo2 | Sheet | xx of yy 0 (01) |
| | | Print | Yes v. Edit 2 |



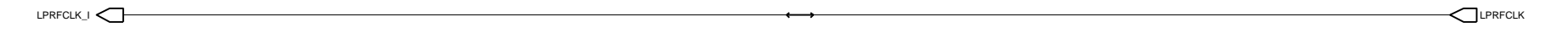
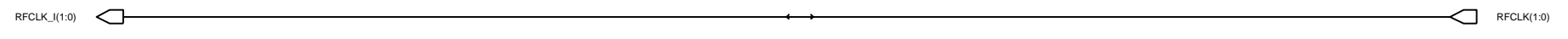
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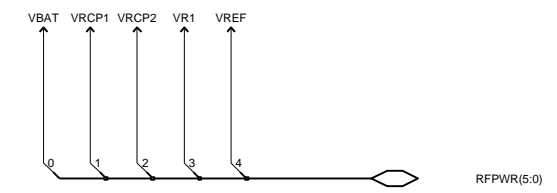
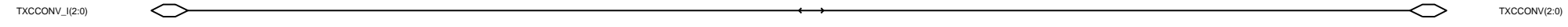
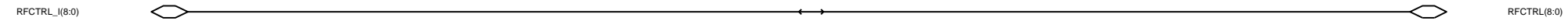
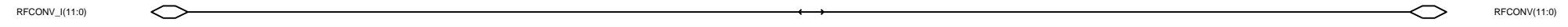
| | | | |
|-------|---|-------|-------------------------|
| Name | USB Connections with APE | Appr | dd-mmm-yy |
| Assoc | Engine Release Database | Des. | KatjaKnu 04-Jun-03 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_engine/usb_conn | Sheet | XX of yy 0 (01) |
| Proj | Cement | Drw. | Print Yes V. 0.0 Edit 2 |

CBB5X

TOP SHEET



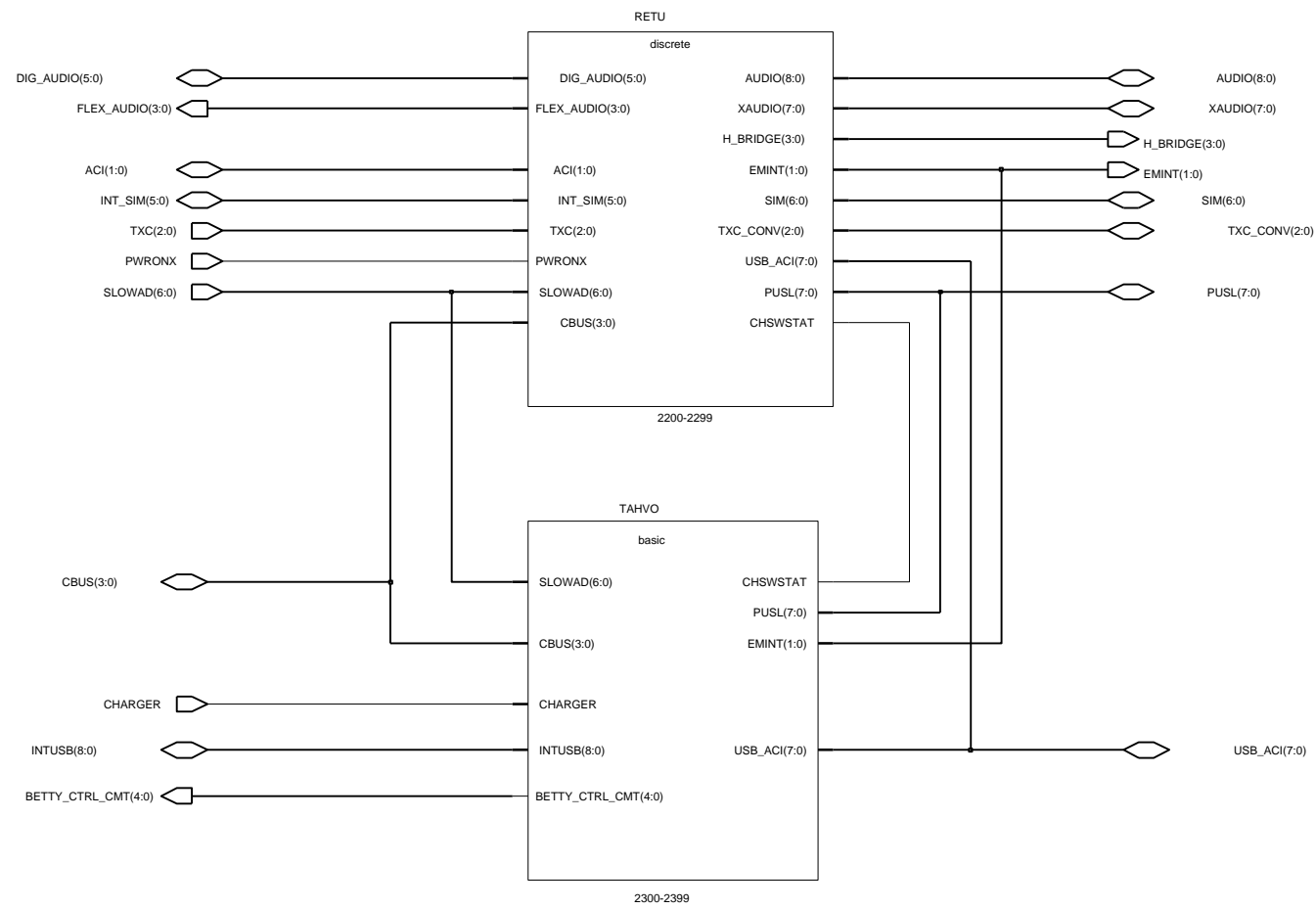
GPSCLK



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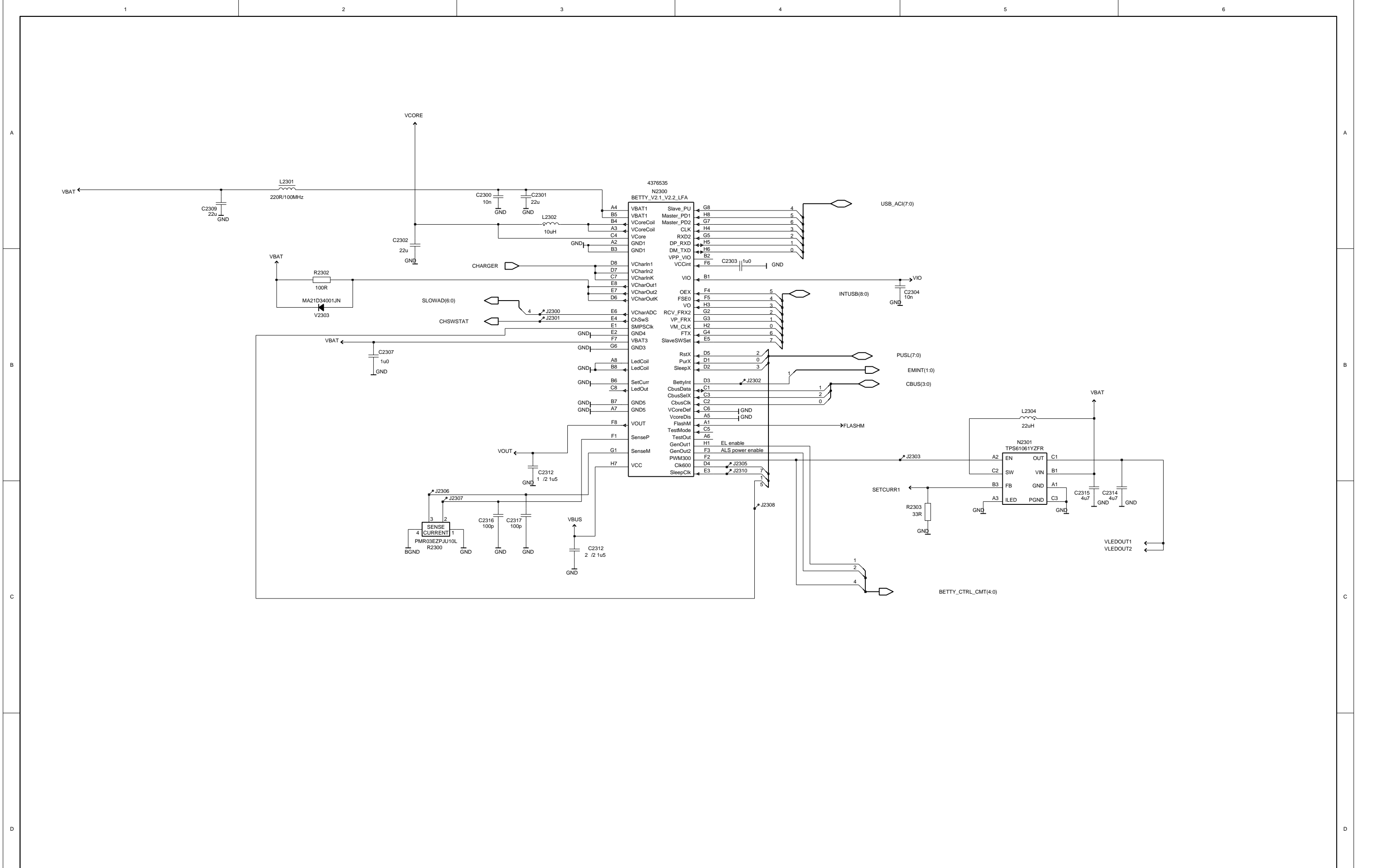
| | | | |
|-------|--|----------------|--------------------|
| Name | RF IF | Appr | dd-mmm-yy |
| Assoc | Charlie S0.2W | Des. | 15-Jan-03 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_engine/rf_bb | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | CBB5X | Sheet xx of yy | 0 (01) |
| | Drw. | Print Yes v. 0 | Edit 2 |



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| | | | |
|-------|--|-------|--------------------|
| Name | Energy management | Appr | dd-mmm-yy |
| Assoc | Vilbet | Des. | JARIM 26-May-04 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_engine/power | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | CeBBo2 | Sheet | xx of yy 1 (01) |
| | | Print | Yes v. Edit 2 |



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| | | | |
|-------|--|-------|-----------------------|
| Name | Betty | Appr | 10-Aug-00 |
| Assoc | Vilbet | Des. | JARIM 10-May-04 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_engine/power/tahvo | | Sheet xx of yy 1 (01) |
| Proj | CeBBo2 | Print | Yes v. Edit 2 |

A

B

C

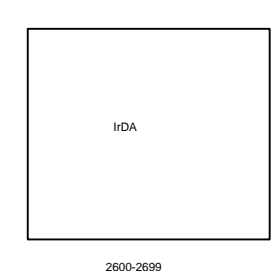
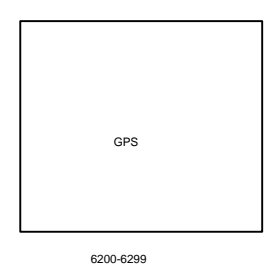
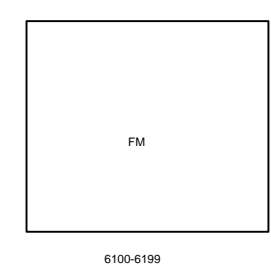
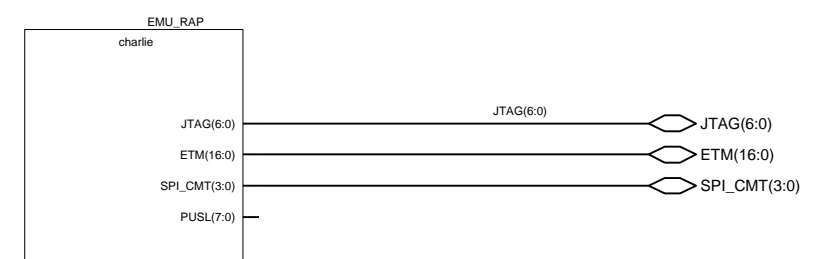
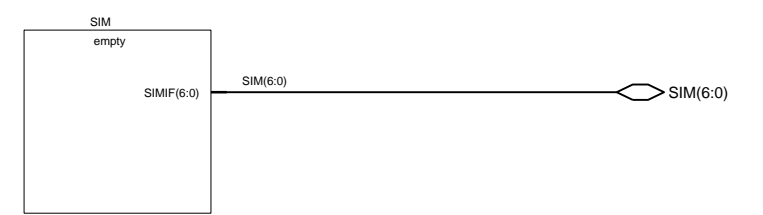
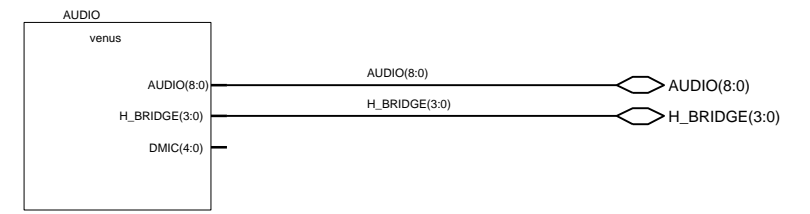
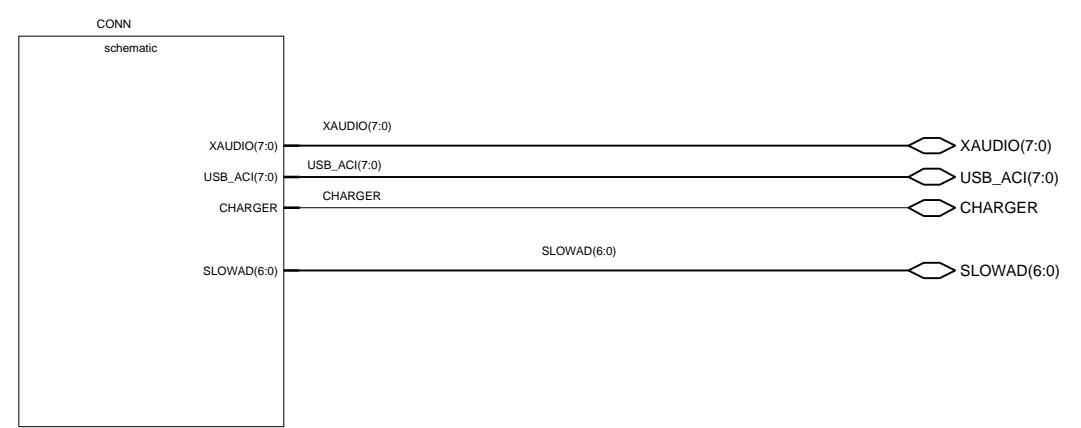
D

A

B

C

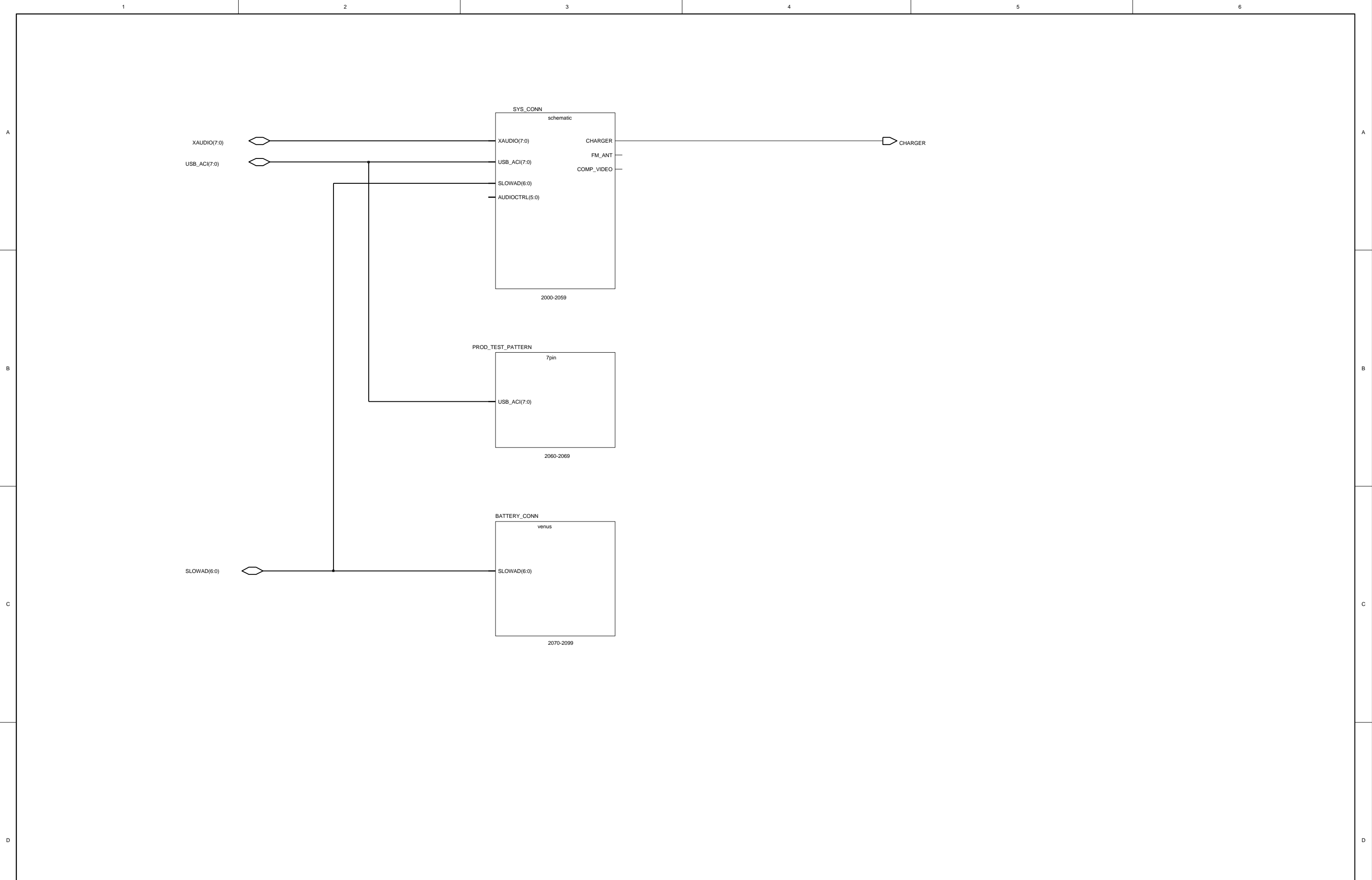
D



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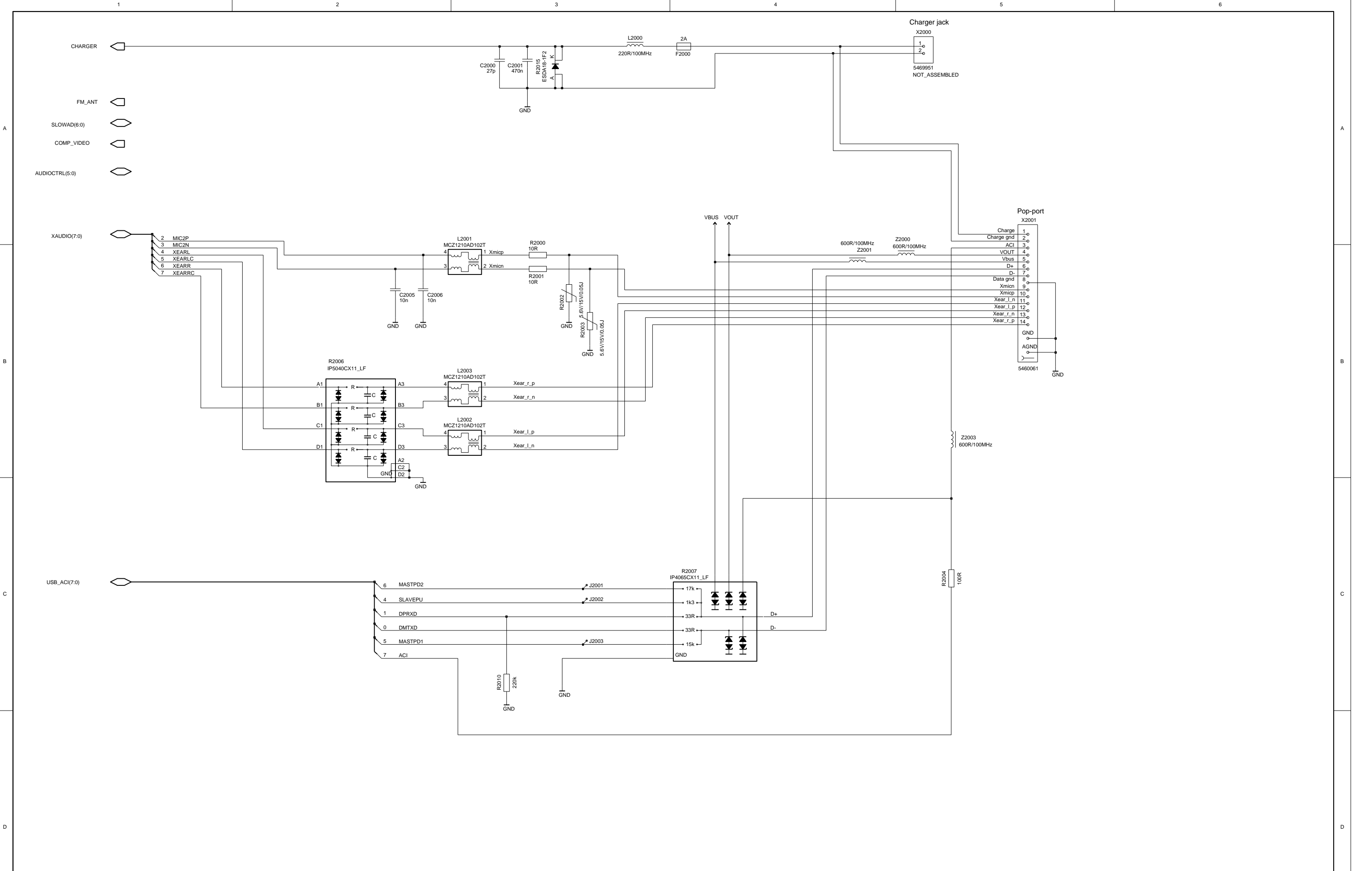
| | | | |
|-------|--|-------|--------------------|
| Name | CMT_IF Top Level | Appr | dd-mmm-yy |
| Assoc | Engine Release Database | Des. | ArKa 27-May-03 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_if | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | Cement | Sheet | xx of yy 0 (01) |
| | | Print | Yes v. 0.0 Edit 2 |



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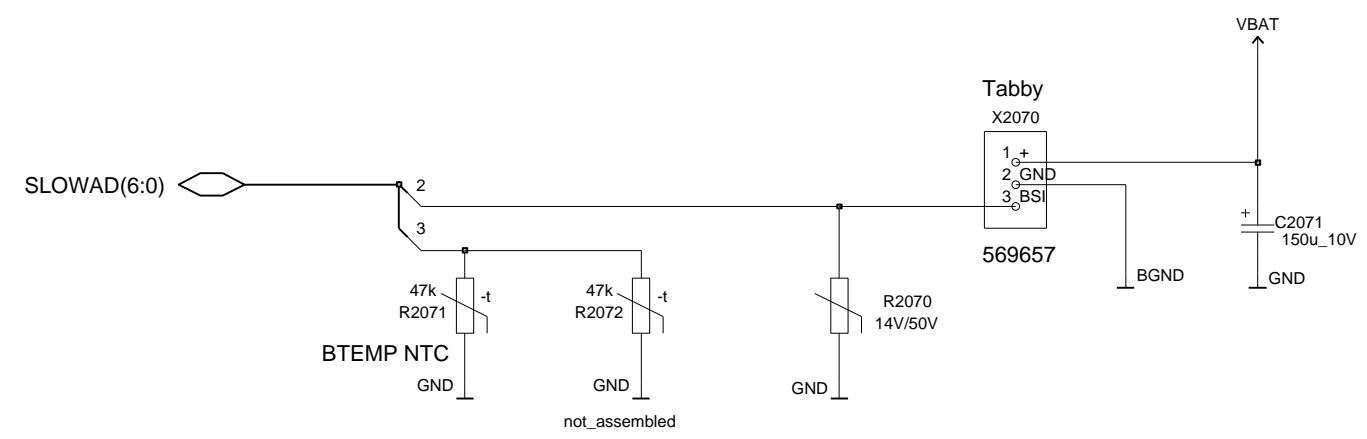
| | | | |
|-------|---|------|-------------------------|
| Name | System and battery connector | Appr | 10-Aug-00 |
| Assoc | Charlie S0.6 | Des. | KAYRA 18-Jan-02 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_if/conn | | Sheet xx of yy 1 (01) |
| Proj | CBB5X | Drw. | Print Yes v. 0,1 Edit 2 |



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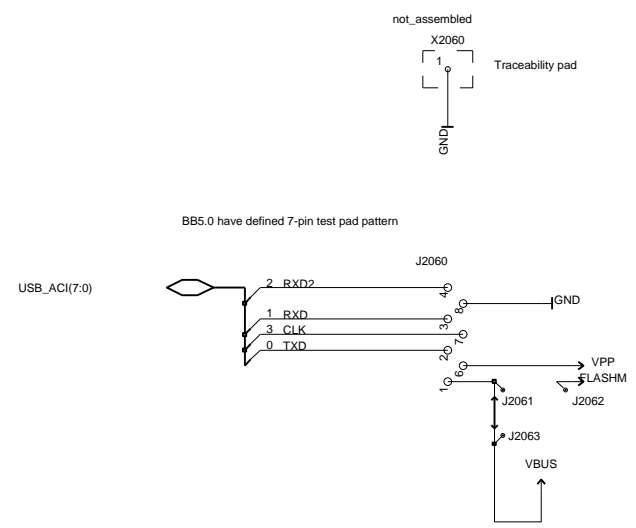


| | | | |
|-------|---|-------|-----------------------|
| Name | System connector | Appr | 10-Aug-00 |
| Assoc | Vilbet | Des. | JARIM 10-May-04 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_if/sys_conn | | Sheet xx of yy 1 (01) |
| Proj | CeBBo2 | Print | Yes v. Edit 2 |



R2071 Placement is fixed according Thermal simulation. If placement need to be changed IT WILL NEED NEW SIMULATION !!!

| | | | | | | | |
|--|--|--|--|-------------------------|--|-------------------------|--|
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| | | Assoc | | Des. elahteen 04-Nov-05 | | | |
| | | | | Dr. TKOIVUSA 03-Jan-07 | | | |
| | | File /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_if/battery_conn | | Sheet XX of yy 0 (01) | | | |
| | | Proj Postman | | Drw. | | Print Yes V. 0.0 Edit 2 | |
| | | | | | | | |



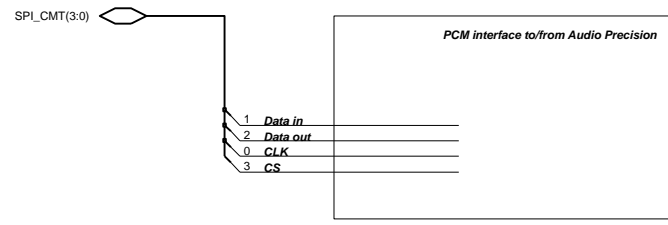
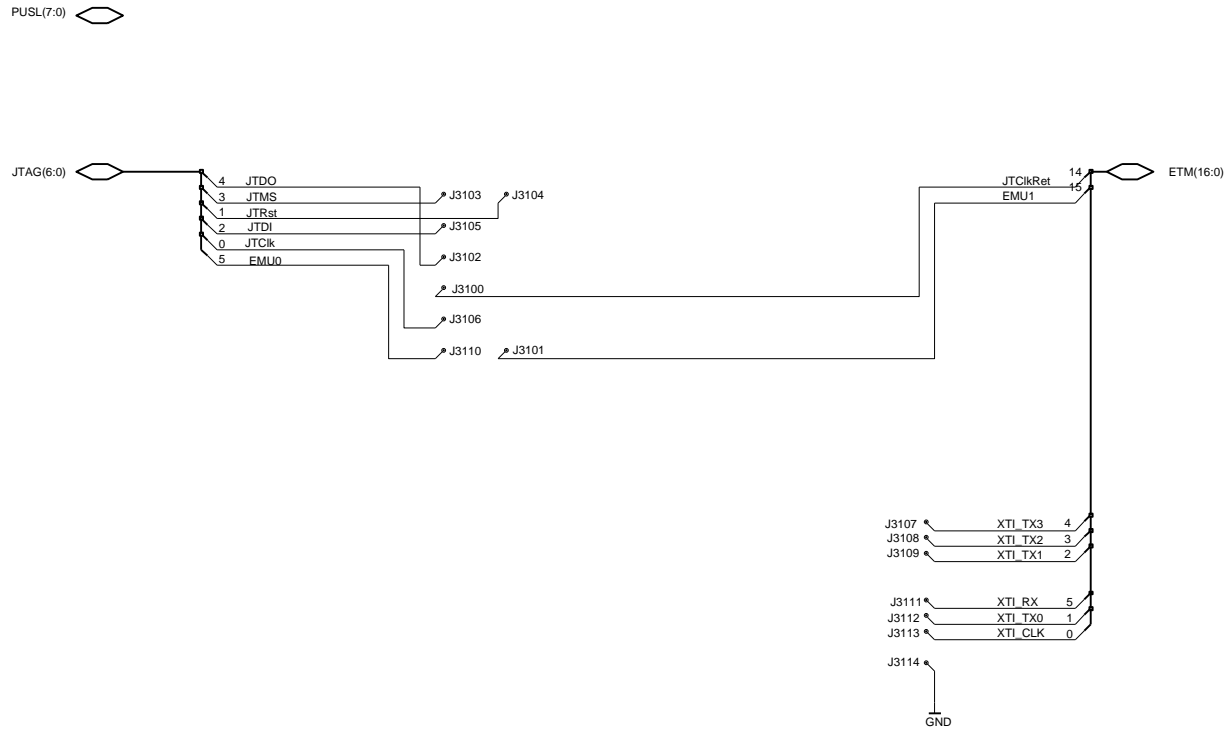
NOTE !! ABOUT VBUS & FLASHM PRODUCT SPECIFIC ISSUE !!!!
J2061-J2062 Should be placed as near as possible to each other
And signal between J2061 & J2062 Will be Left unrouted
This Way FlashM Can be Left as a backup for flashing activation

FLASHM = VBat; flashing possible
 FLASHM = floating; USB possible

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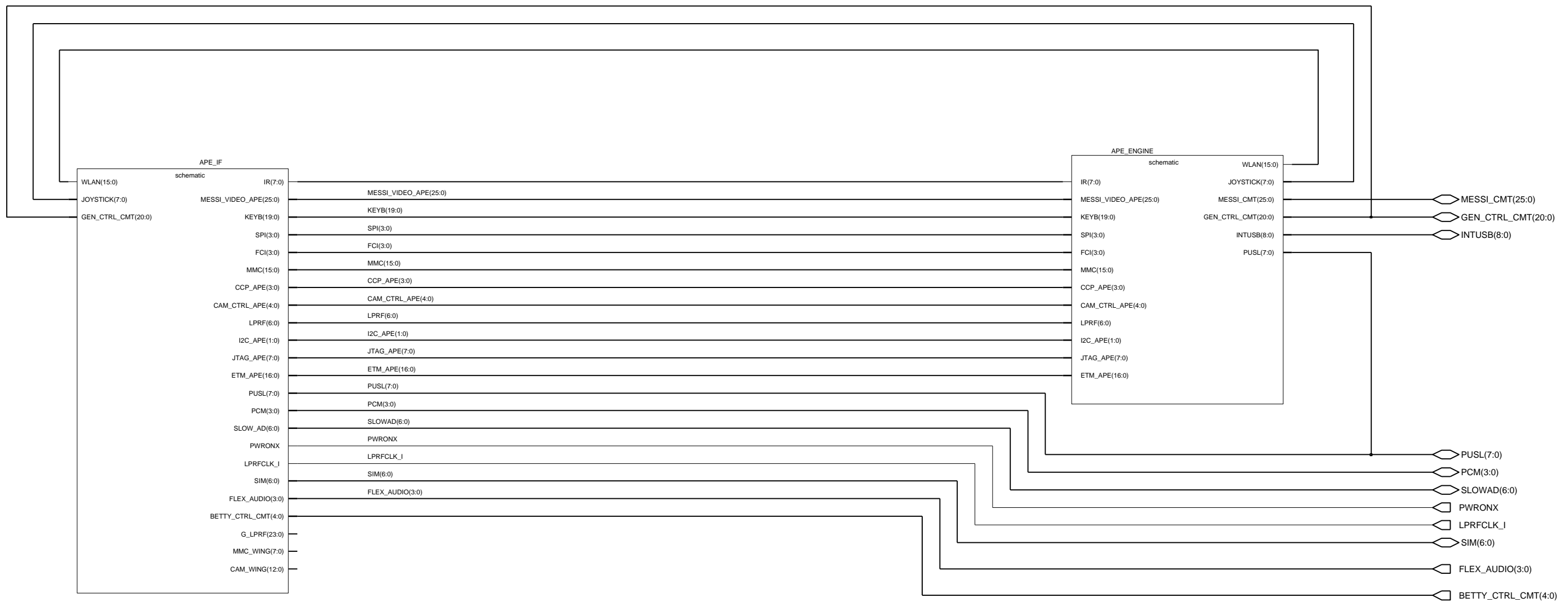
| | | | |
|-------|--|-------|-------------------------|
| Name | Production test pad | Appr | 10-Aug-00 |
| Assoc | Charlie S0.6 | Des. | KAYRA 18-Jan-02 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_if/prod_test_pattern | Sheet | xx of yy 1 (01) |
| Proj | CBB5X | Draw. | Print Yes v. 0,1 Edit 2 |



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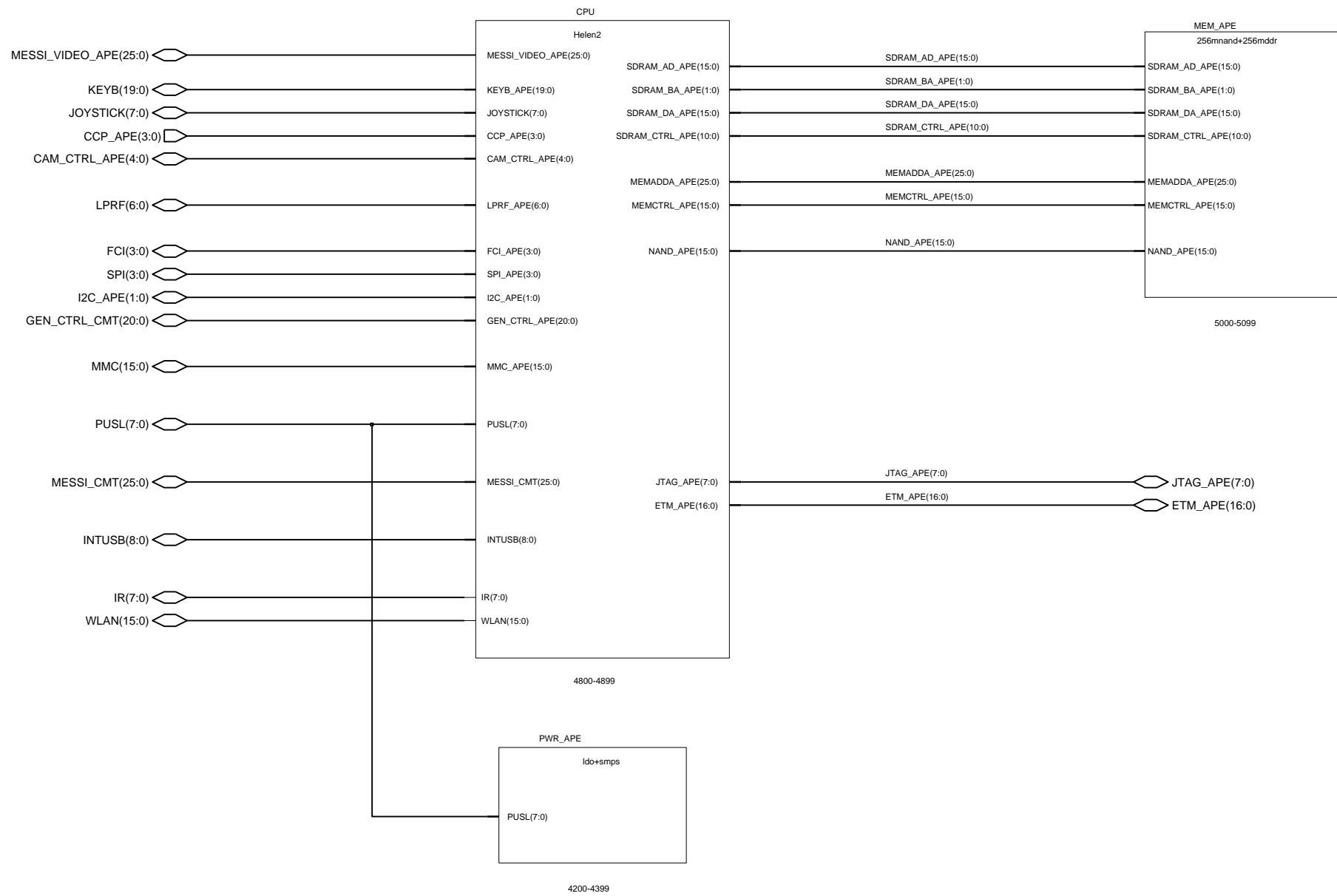
| | | | |
|-------|--|------|-------------------------|
| Name | Test Interface | Appr | dd-mmm-yy |
| Assoc | Charlie S0.6 | Des. | KAYRA 04-Jun-98 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/cellular/cmt_if/emu_rap | | Sheet xx of yy 1 (01) |
| Proj | CBB5X | Drw. | Print Yes V. 1.3 Edit 2 |



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| | | | |
|-------|--|-------|--------------------|
| Name | Revlon Top Level | Appr | dd-mmm-yy |
| Assoc | Revlon Application Engine | Des. | KAYRA 27-Aug-03 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | Revlon | Sheet | xx of yy 0 (01) |
| | | Print | Yes v. 0.0 Edit 2 |



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| | | | |
|-------|---|-------|--------------------|
| Name | Ape Engine | Appr | dd-mmm-yy |
| Assoc | Revlon Application Engine | Des. | KAYRA 27-Aug-03 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_engine | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | Revlon | Sheet | xx of yy 0 (01) |
| | | Print | Yes v. 0.0 Edit 2 |

A

B

C

D

A

B

C

D

MEMADDA_APE(25:0)

MEMCTRL_APE(15:0)

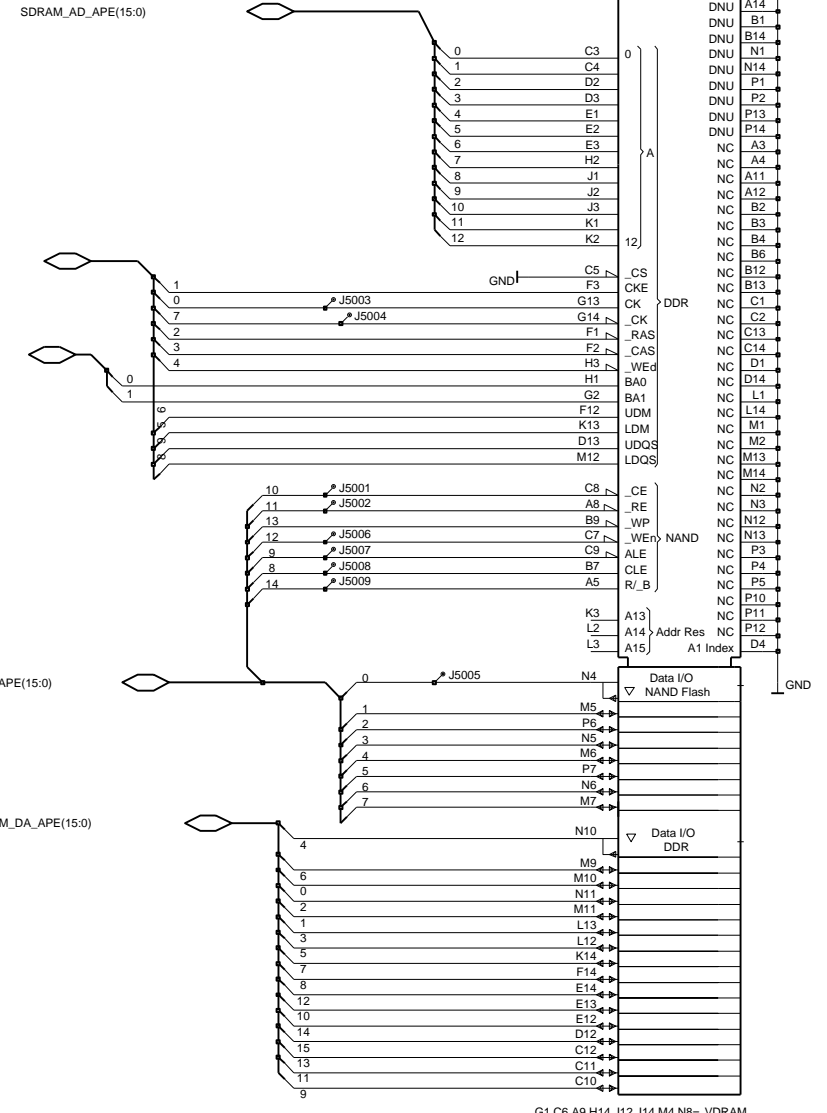
SDRAM_AD_APE(15:0)

SDRAM_CTRL_APE(10:0)

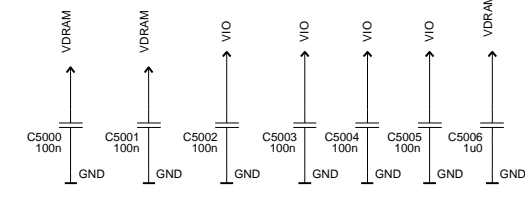
SDRAM_BA_APE(1:0)

NAND_APE(15:0)

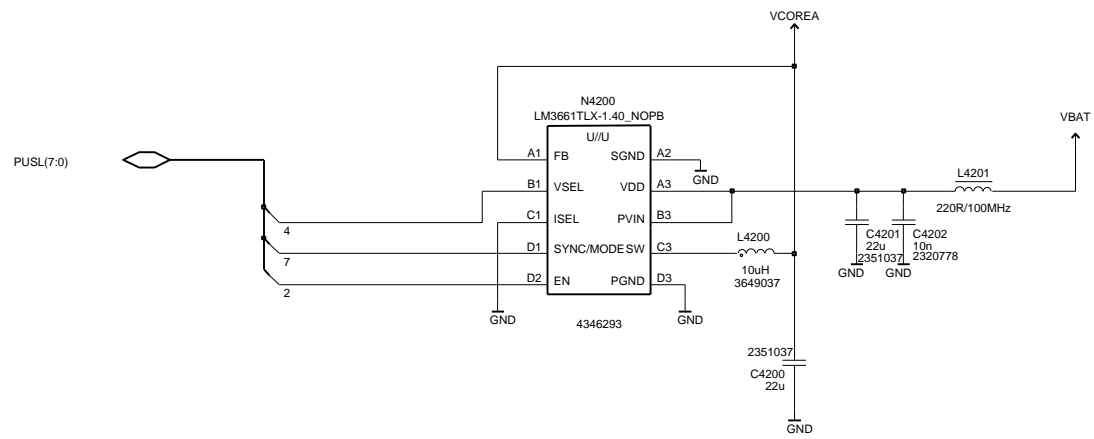
SDRAM_DA_APE(15:0)



G1,C6,A9,H14,J12,J14,M4,N8= VDRAM
 B11,M8,H13,J13= VIO
 A6= VIO
 N7= VIO
 B5,B10,G3,G12,H12,M3,N9= GND
 A10,F13,K12,P9= GND
 A7,B8,P8= GND



| | | | | | | | |
|---|--|------|--|---|--|--|--|
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| File /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_engine/mem_ape | | | | Sheet xx of yy 1 (01) | | Print Yes V. 0,1 Edit 2 | |
| Proj CBB5X | | Drw. | | | | | |

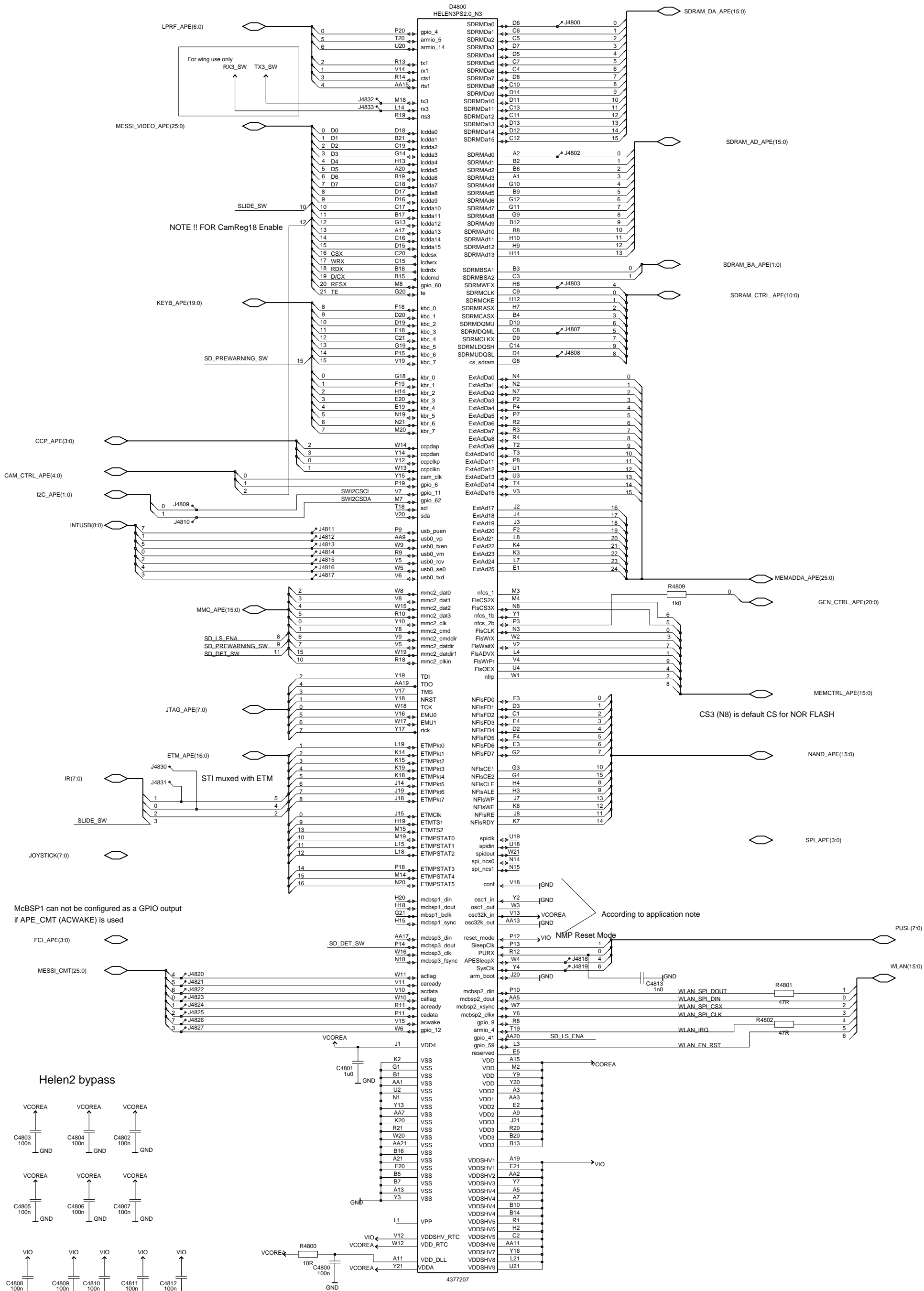


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| | | | |
|-------|---|------|-------------------------|
| Name | Discrete regulators | Appr | 10-Aug-00 |
| Assoc | Charlie S0.6 | Des. | KAYRA 15-Jan-03 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_engine/pwr_ape | | Sheet xx of yy 1 (00) |
| Proj | CBB5X | Drw. | Print Yes V. 0,1 Edit 2 |

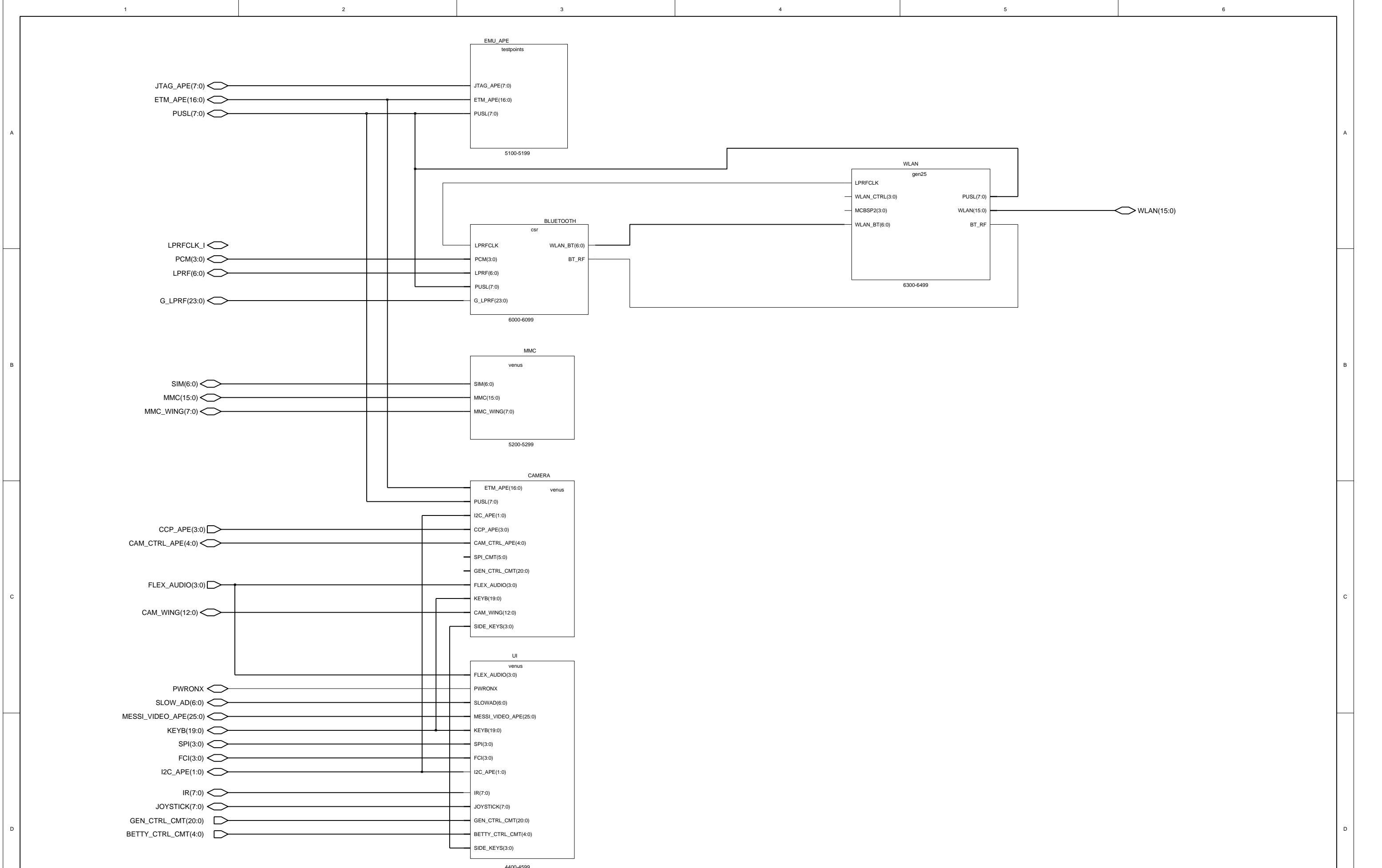
See Helen2_3 uses cases before remapping pins
 Not pin compatible with Helen3 (OMAP1710)



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| | | | |
|-------|---|-------|--------------------|
| Name | Helen2 | Appr | dd-mmm-yy |
| Assoc | 1yb | Des. | KAYRA 27-Aug-03 |
| | | Tech | Revlon |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_engine/cpu | Sheet | xx of yy 1 (01) |
| Proj | AFRODITE | Print | Yes V. 02 Edit 2 |

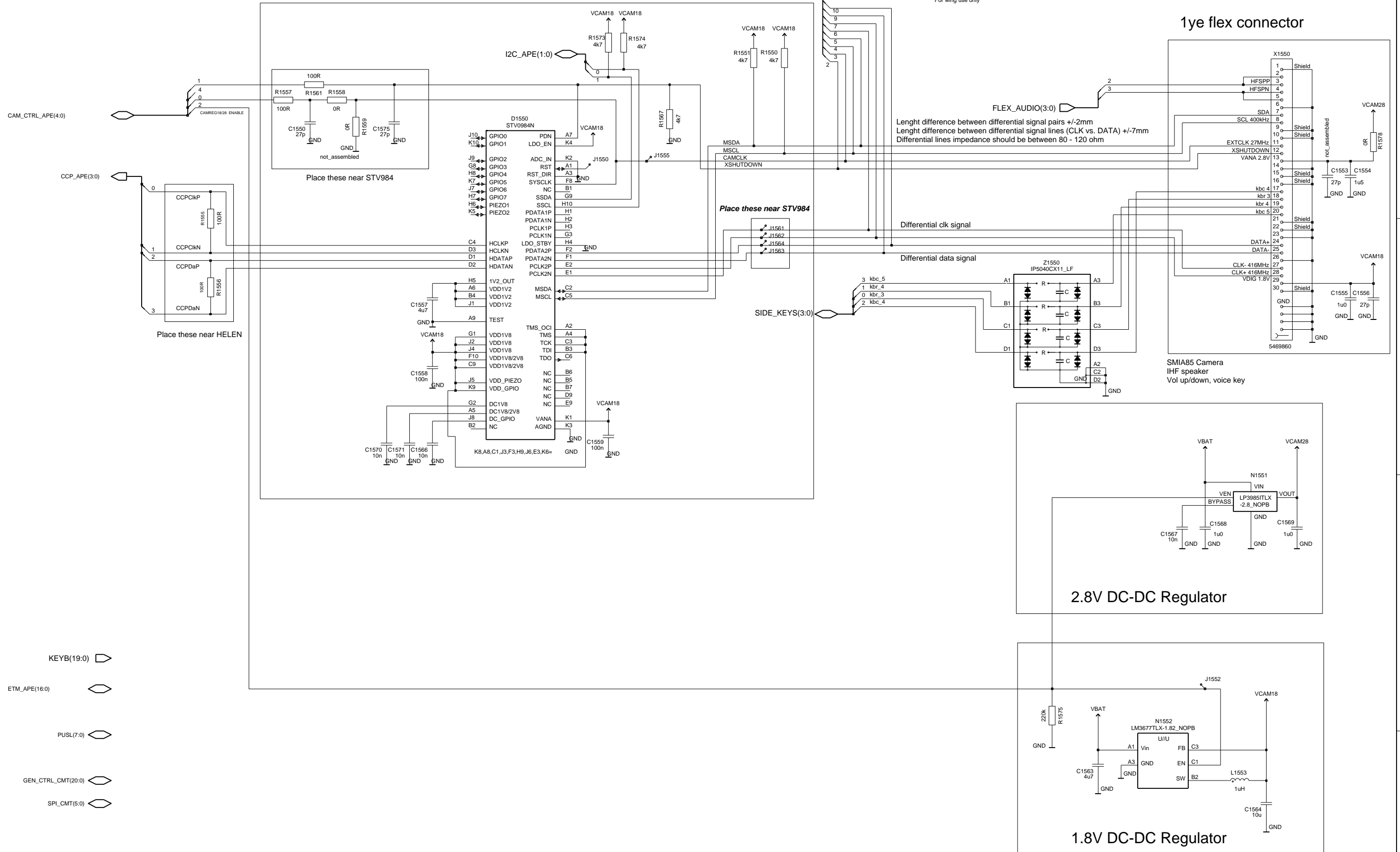


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| | | | |
|-------|---|-------|--------------------|
| Name | | Appr | dd-mmm-yy |
| Assoc | | Des. | 27-May-03 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_if | Sheet | xx of yy 01 |
| Proj | | Print | Yes v. 0.0 Edit 2 |

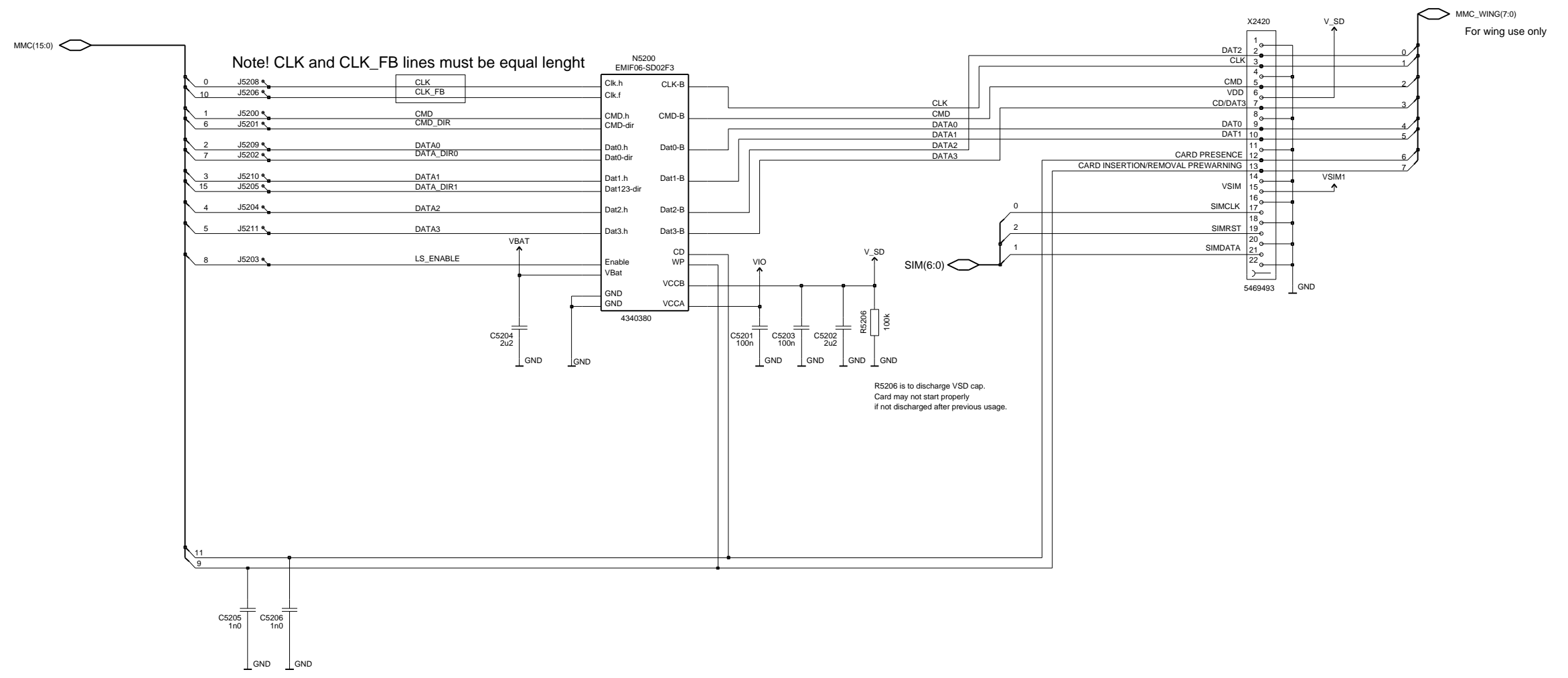
STV984



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| | | | |
|-------|--|-------|--------------------|
| Name | STV984+SMA85 | Appr | dd-mmm-yy |
| Assoc | 1yb | Des. | elahteen 04-Nov-05 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_if/camera | Dr. | TKOIVUSA 03-Jan-07 |
| Proj | AFRODITE | Sheet | xx of yy 0 (01) |
| Draw. | | Print | Yes v. 0.0 Edit 3 |



Place close to corresponding pins of Helen

| | | | | | | | |
|---|--|--|--|--|--|---|--|
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|---|--|--|--|--|--|---|--|

JOYSTICK(7:0)

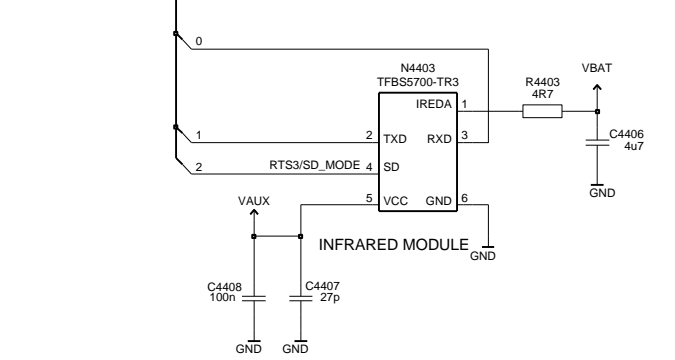
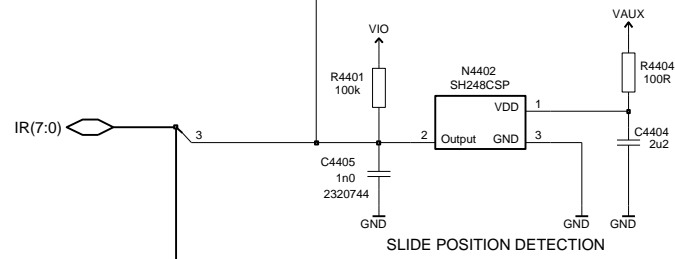
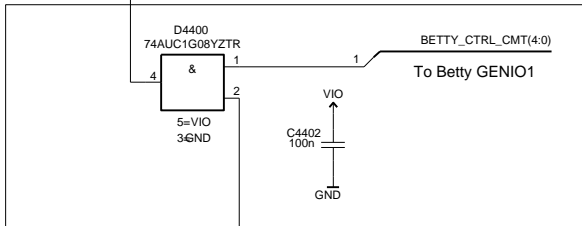
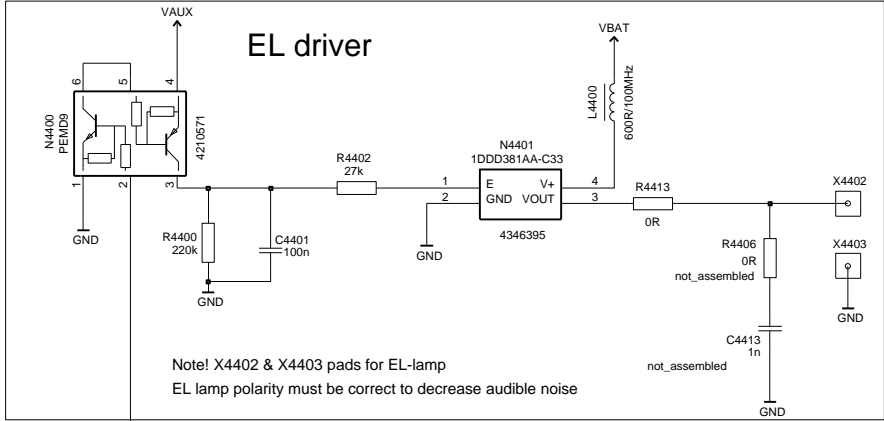
I2C_APE(1:0)

SPI(3:0)

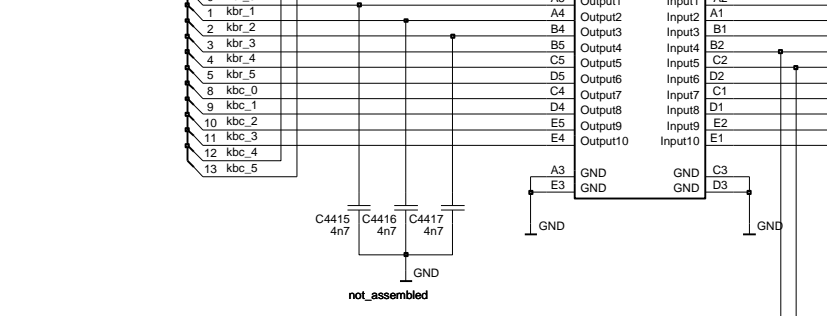
FC(3:0)

MESSI_VIDEO_APE(25:0)

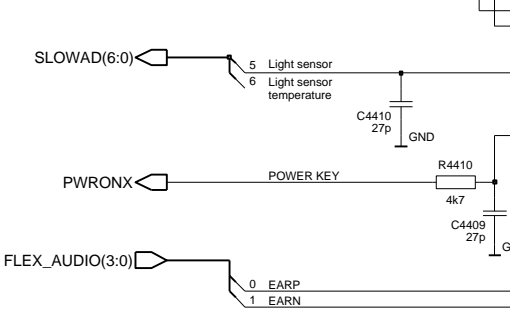
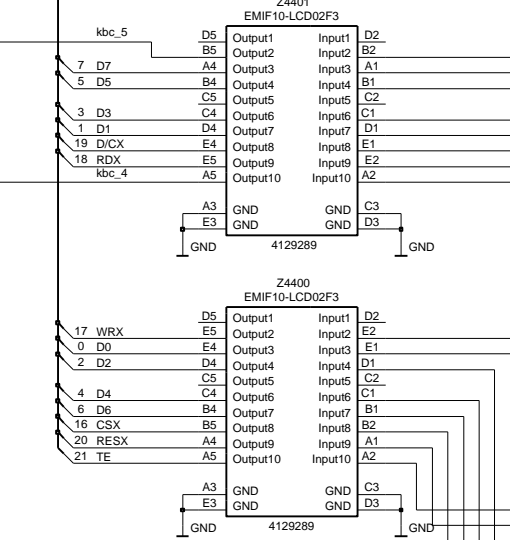
Module has 33kOhm internal resistor in enable line together with R4402 they will limit enable current.
 Small current => EL lamp will discharge slowly => a bit dimmer lamp and less audible noise
 Enable current must be between 10 - 50uA, with 82k external resistor current will be 27.8 - 36.5uA
 (VBAT varying between 3.2 - 4.2V)



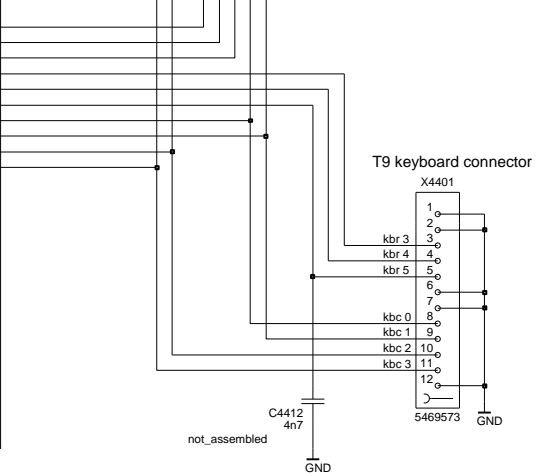
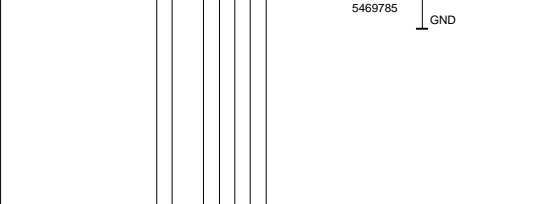
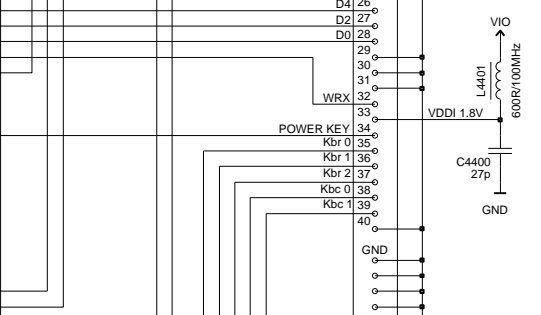
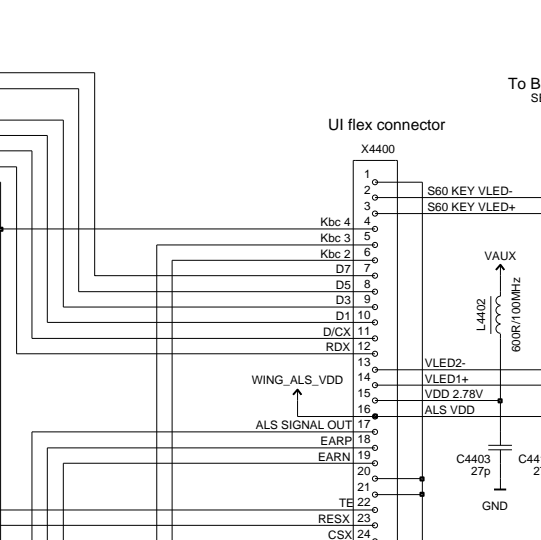
KEYB(19:0)



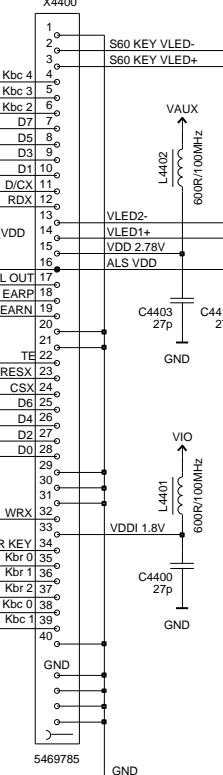
SIDE_KEYS(3:0)



FLEX_AUDIO(3:0)



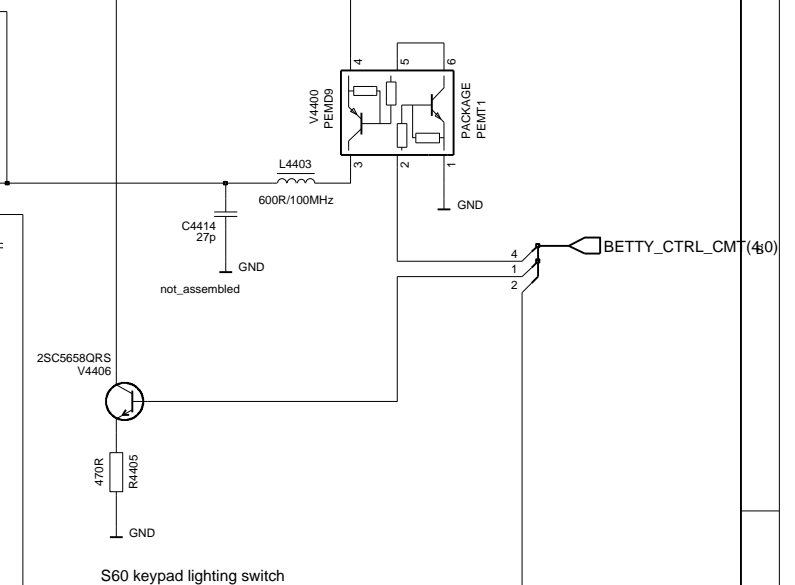
UI flex connector



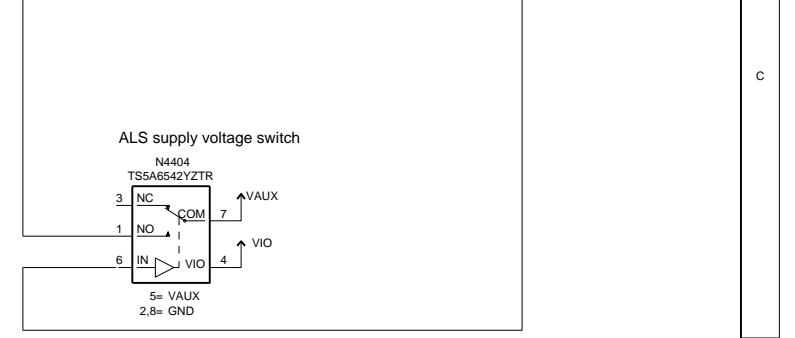
To Betty sheet SETCURR1

From Betty sheet VLEDOUT1

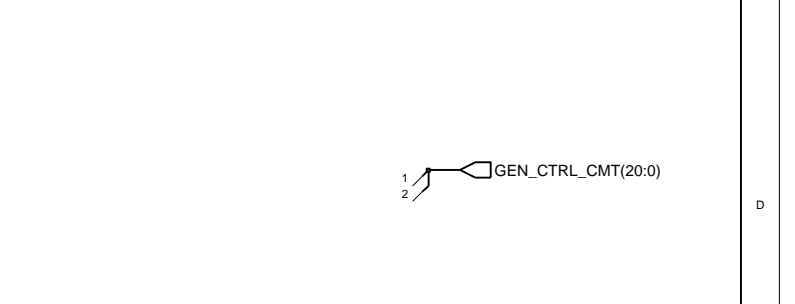
S60 & T9 keypad lighting constant current circuit



BETTY_CTRL_CMT(4:0)



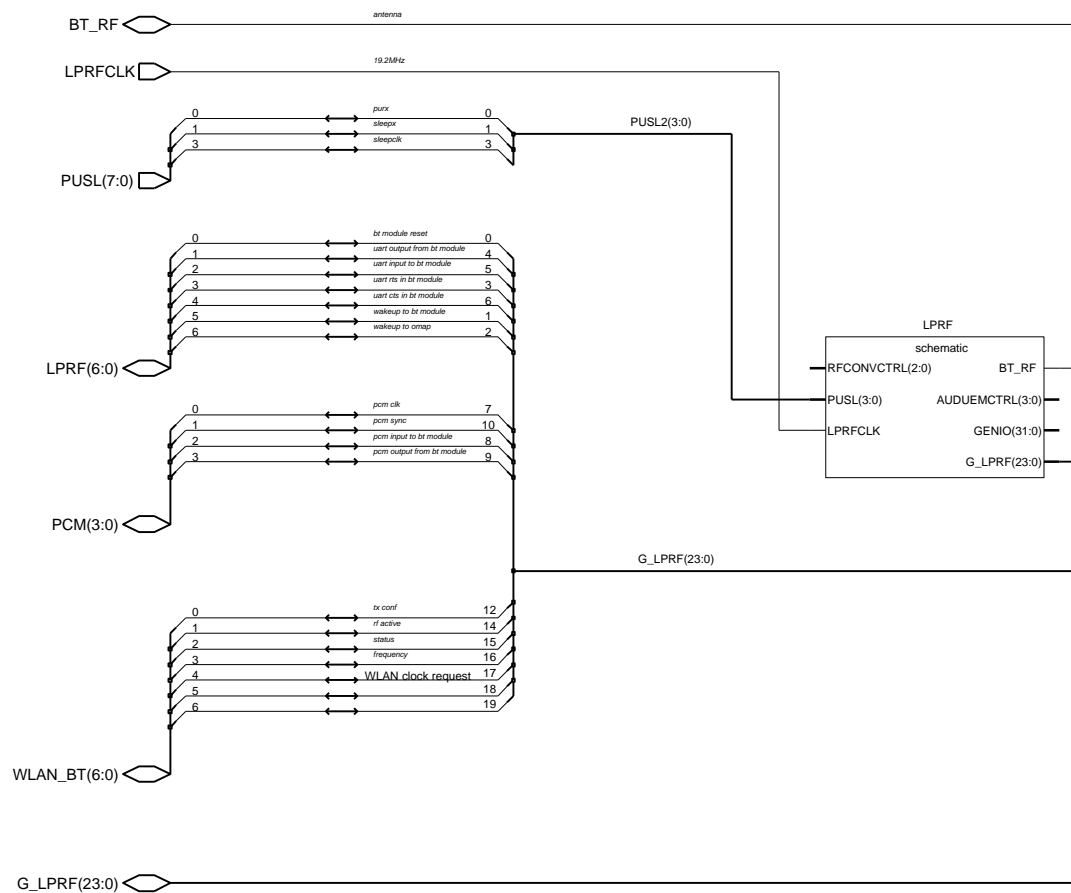
To Betty GENIO2 aligned with other projects



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| | | | |
|-------|--|-------|--------------|
| Name | UI | Appr | dd-mmm-yy |
| Assoc | 1yb | Des. | 15-Jan-03 |
| | | Tech | Revlon |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_if/ui | | Dr. TKOIVUSA |
| Proj | AFRODITE | Sheet | xx of yy |
| | | Print | Yes |
| | | V. | 02 |
| | | Edit | 2 |



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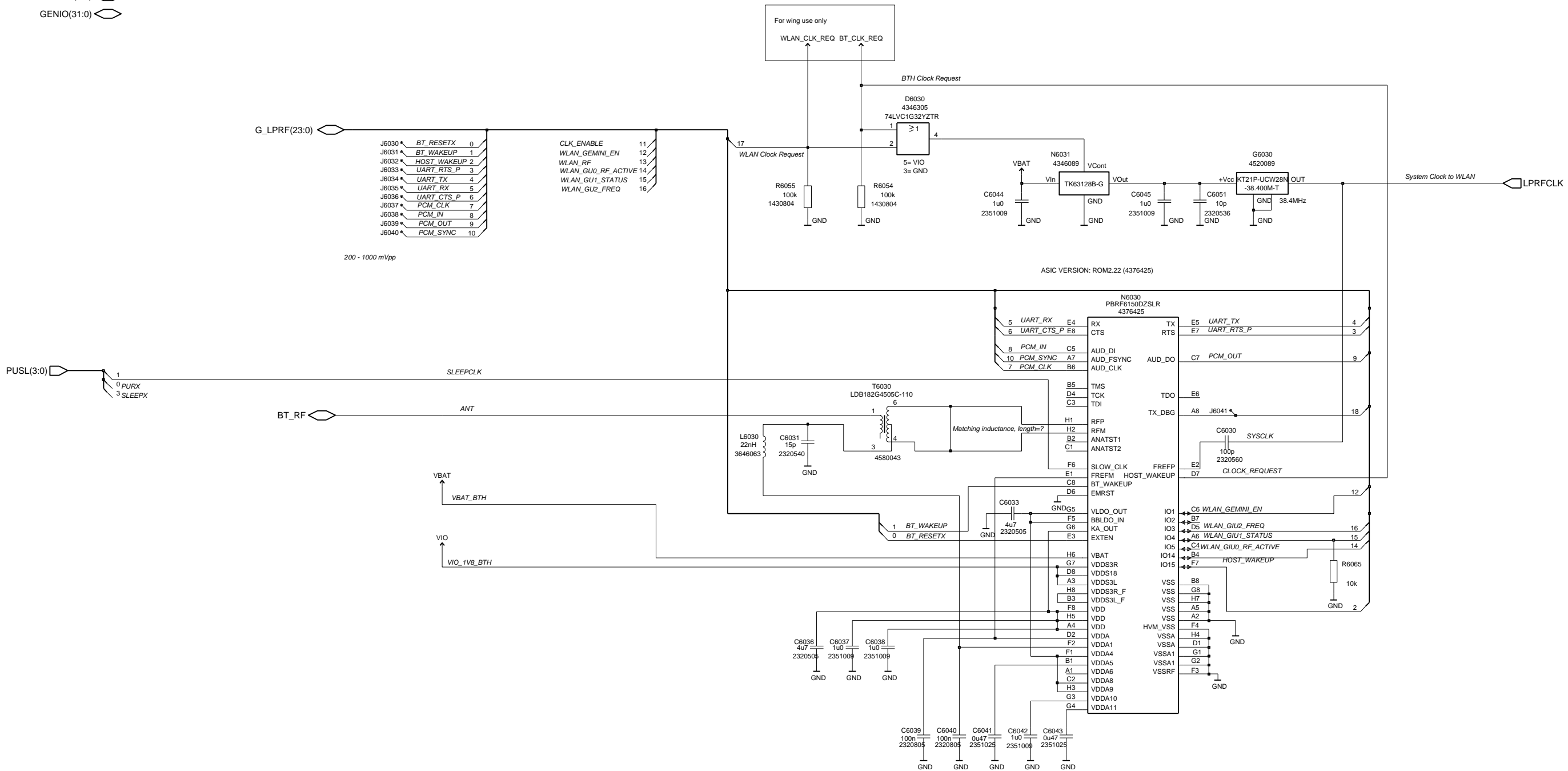


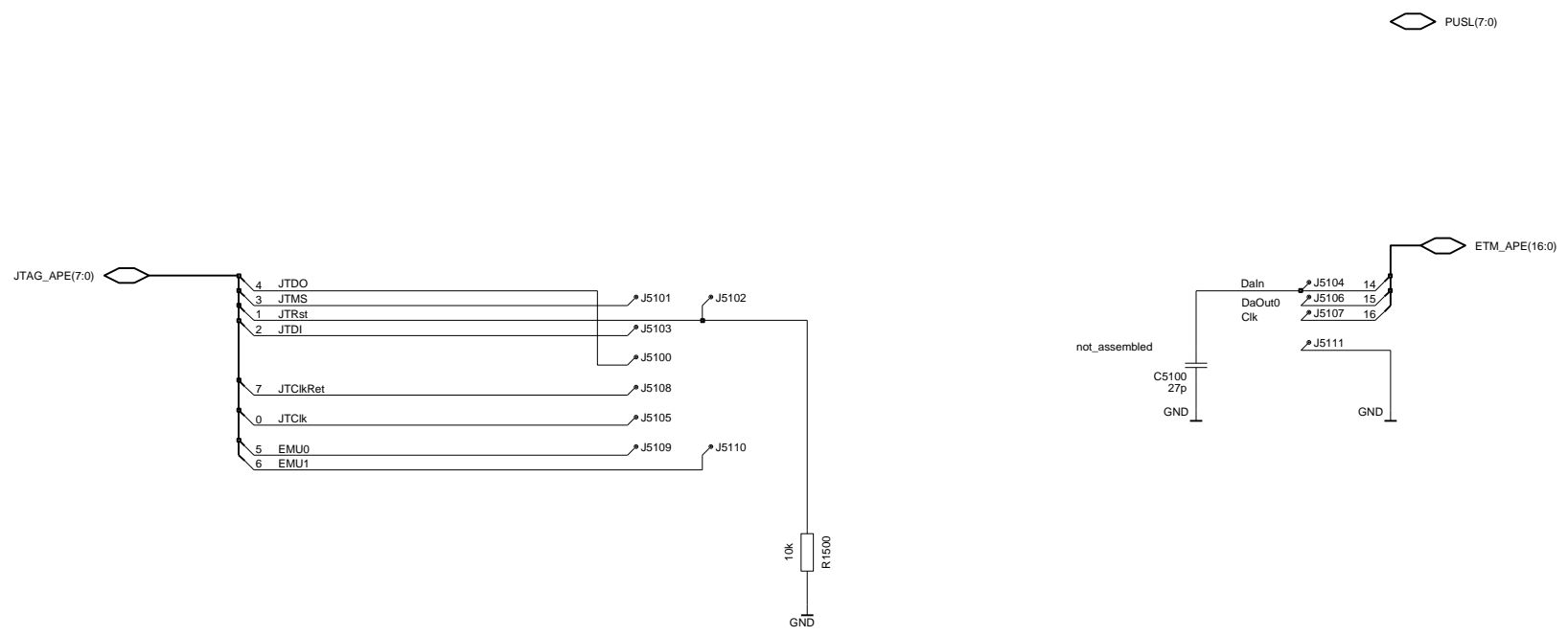
| | | | |
|-------|---|-------|--------------------|
| Name | CSR Bluetooth Interface | Appr | dd-mmm-yy |
| Assoc | | Des. | KAYRA 29-Aug-03 |
| | Tech BlueBird | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_if/bluetooth | Sheet | xx of yy 0 (01) |
| Proj | Drw. | Print | Yes v. 02 Edit 2 |

BTHCOST_3.0 (TI NON-BUFF)

BLUETOOTH CIRCUIT

- RFCONVCTRL(2:0)
- AUDUEMCTRL(3:0)
- GENIO(31:0)

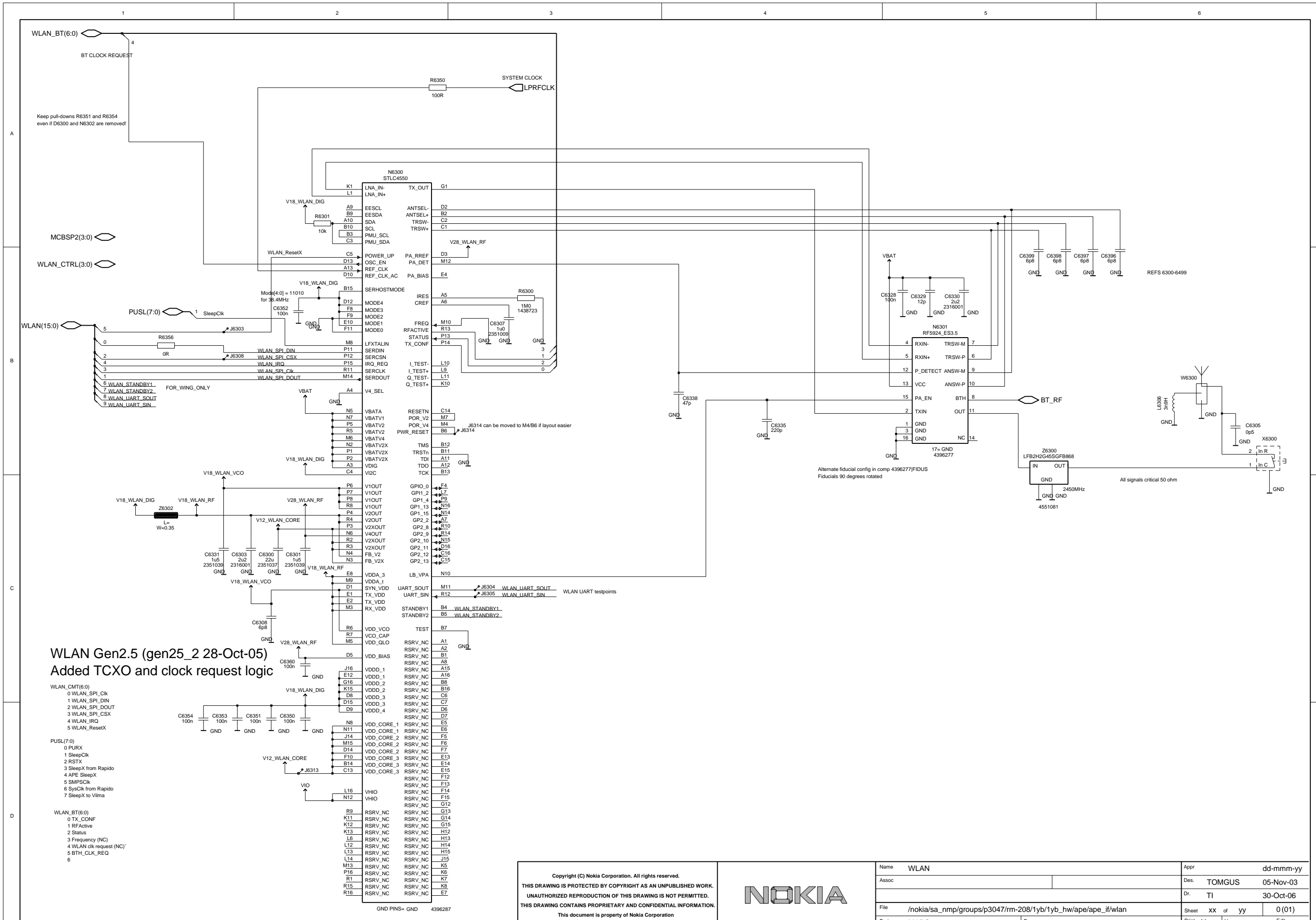




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| | | | |
|-------|---|------|------------------------|
| Name | JTAG + ETM | Appr | dd-mmm-yy |
| Assoc | 1yb | Des. | ILJARVIN 29-Aug-03 |
| | | Dr. | TKOIVUSA 03-Jan-07 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ape/ape_if/emu_ape | | Sheet xx of yy 1 (01) |
| Proj | AFRODITE | Drw. | Print Yes v. 02 Edit 2 |



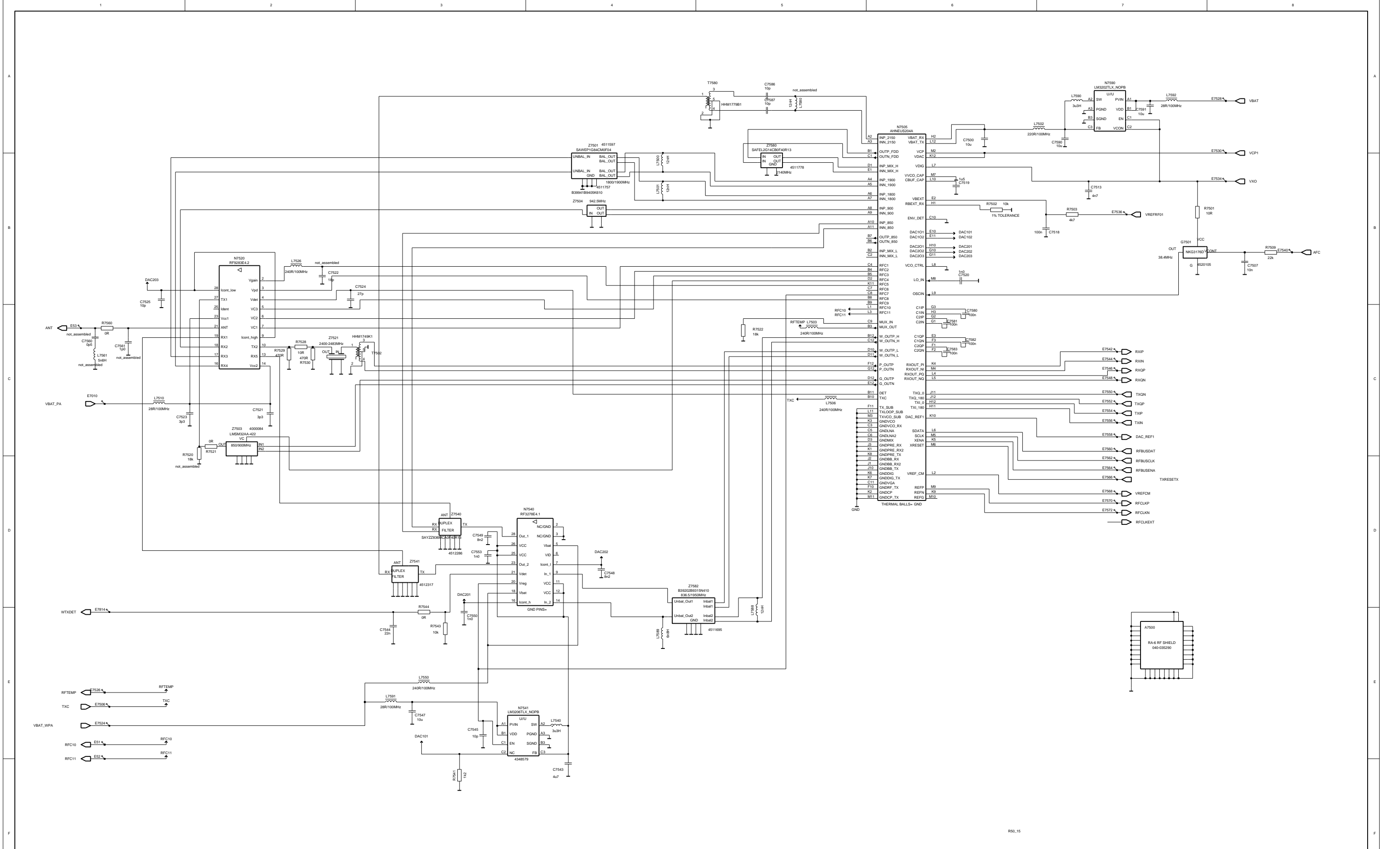
WLAN Gen2.5 (gen25_2 28-Oct-05)
Added TCXO and clock request logic

- WLAN_CMT(6:0)
 - 0 WLAN_SPI_Clk
 - 1 WLAN_SPI_DIN
 - 2 WLAN_SPI_DOUT
 - 3 WLAN_SPI_CSX
 - 4 WLAN_IRQ
 - 5 WLAN_ResetX
- PUSL(7:0)
 - 0 PURX
 - 1 SleepCk
 - 2 RSTX
 - 3 SleepX from Rapido
 - 4 APE SleepX
 - 5 SMPSCk
 - 6 SysCk from Rapido
 - 7 SleepX to Vima
- WLAN_BT(6:0)
 - 0 TX_CONF
 - 1 RFActive
 - 2 Status
 - 3 Frequency (NC)
 - 4 WLAN clk request (NC)
 - 5 BTH_CLK_REQ
 - 6


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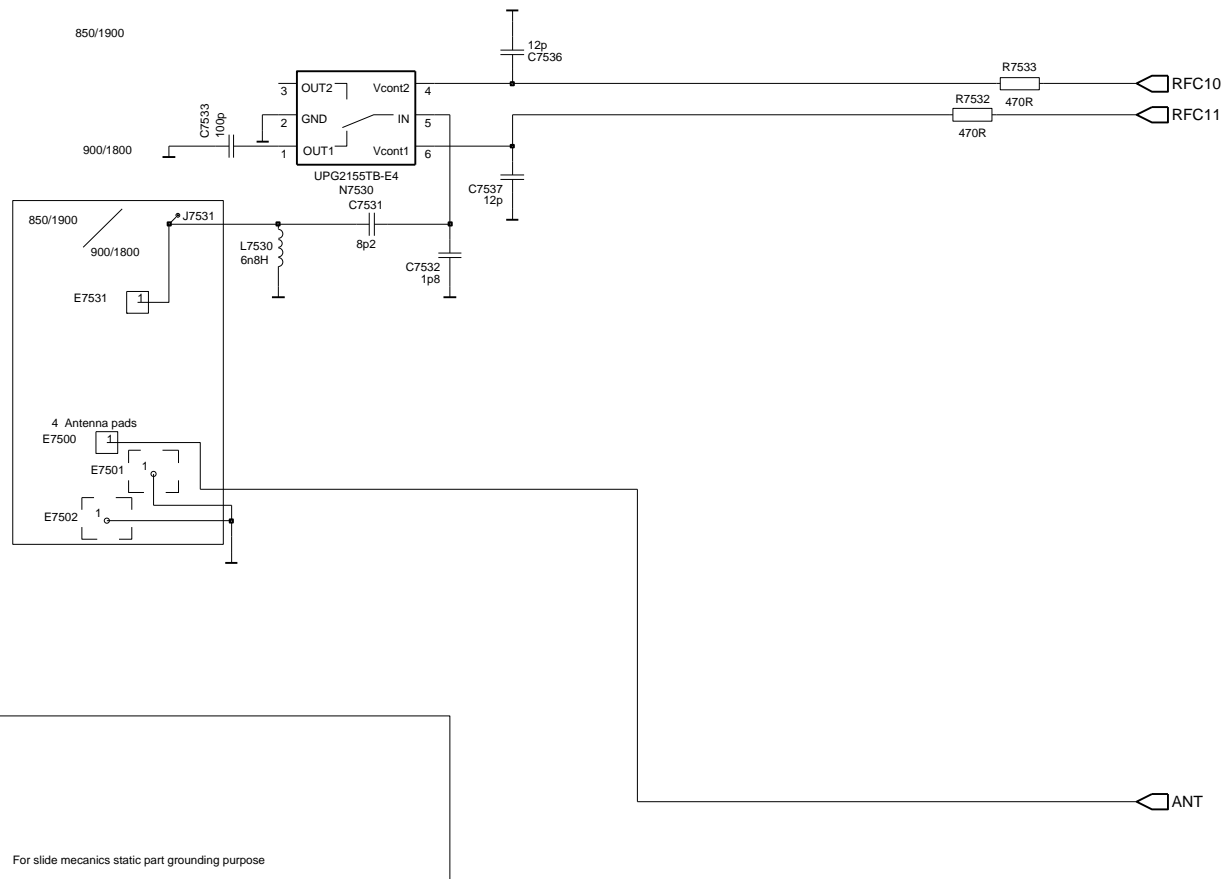
| | | | |
|-------|--|-------|--------------------|
| Name | WLAN | Appr | dd-mmm-yy |
| Assoc | | Des. | TOMGUS 05-Nov-03 |
| | | Dr. | TI 30-Oct-06 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_hw/ape/ape_if/wlan | | |
| Proj | MARS | Sheet | xx of yy 0(01) |
| | | Print | Yes v. 0.0 Edit 41 |



R50_15

| | | | | | | | |
|---|--|---|--|-----------------|--|----------------|--|
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| Assoc r50 | | | | Des. Palomaa | | 22-Jun-05 | |
| File /nokia/sa_nmp/groups/p3047/m-208/1yb/1yb_07/RF5 | | Dr. TI | | 21-Dec-06 | | Sheet xx of yy | |
| Proj Rtsa 5.0 | | Dwg. | | V. 0.0 | | Edt 2 | |

Mutant for Xtra ground tuning to cover Qband GSM + EU WCDMA



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| | | | |
|-------|---|-------|-------------------|
| Name | Afrodite antenna interface | Appr | dd-mmm-yy |
| Assoc | Mutant | Des. | T1 30-Jan-06 |
| | | Dr. | T1 21-Dec-06 |
| File | /nokia/sa_nmp/groups/p3047/rm-208/1yb/1yb_07/ant_band | Sheet | xx of yy 0 (01) |
| Proj | P3047 Afrodite | Print | Yes v. 0.0 Edit 2 |

