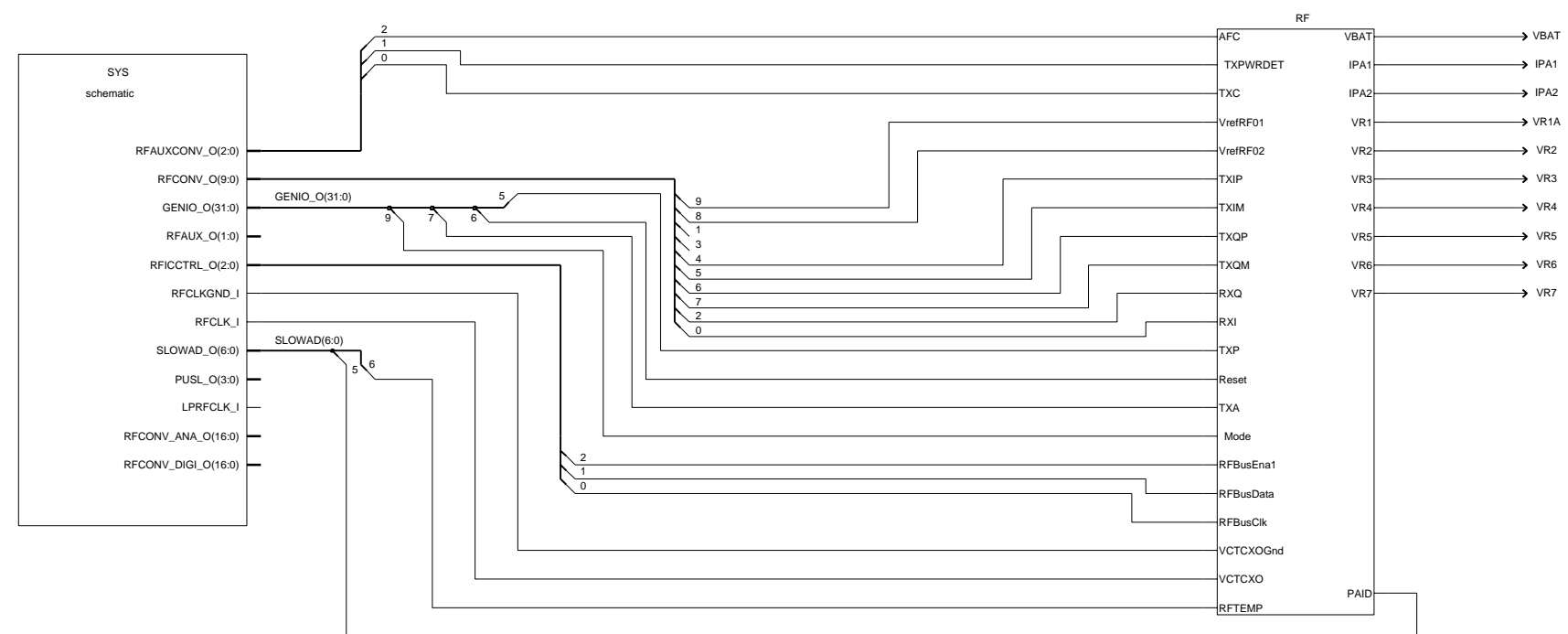
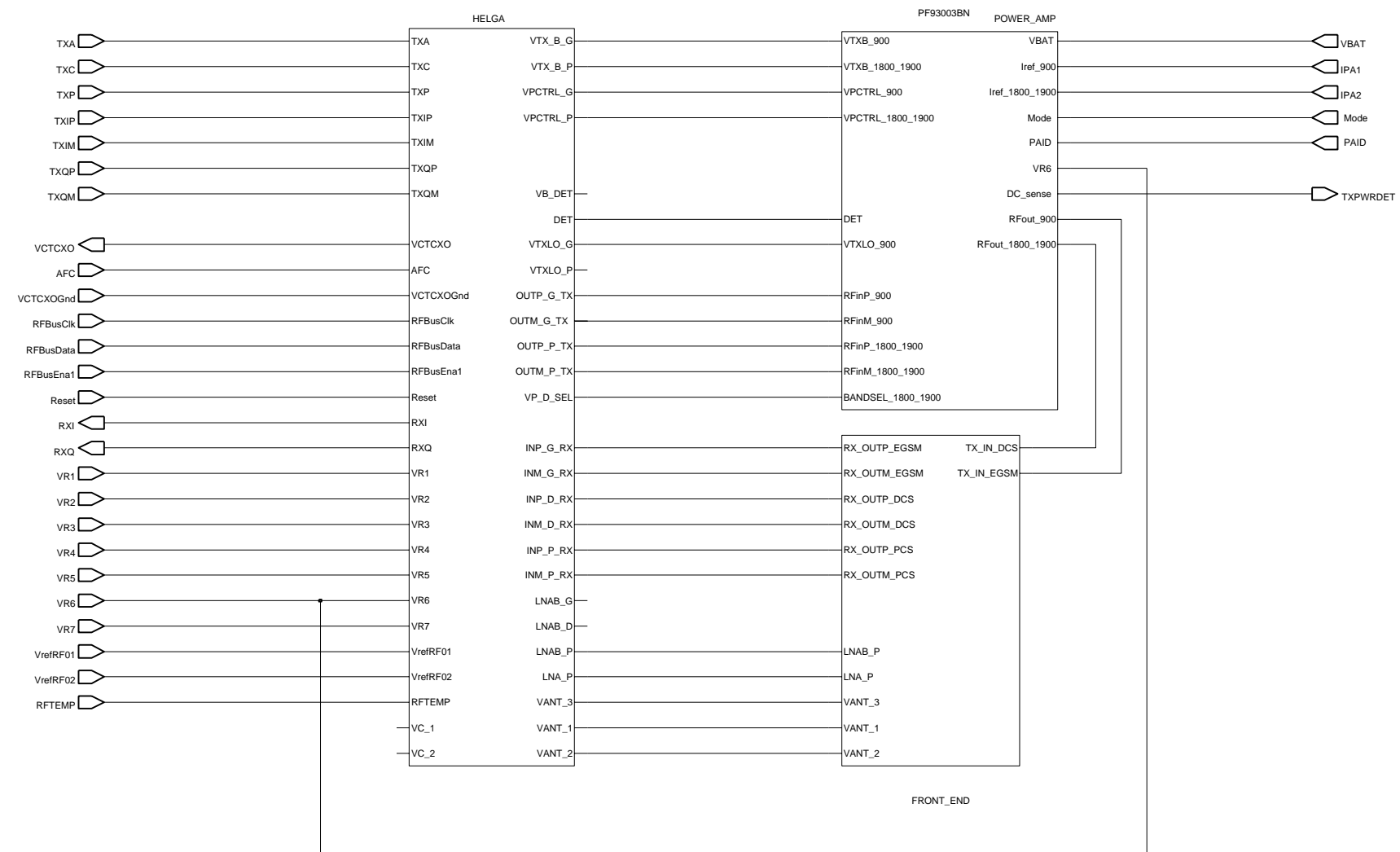


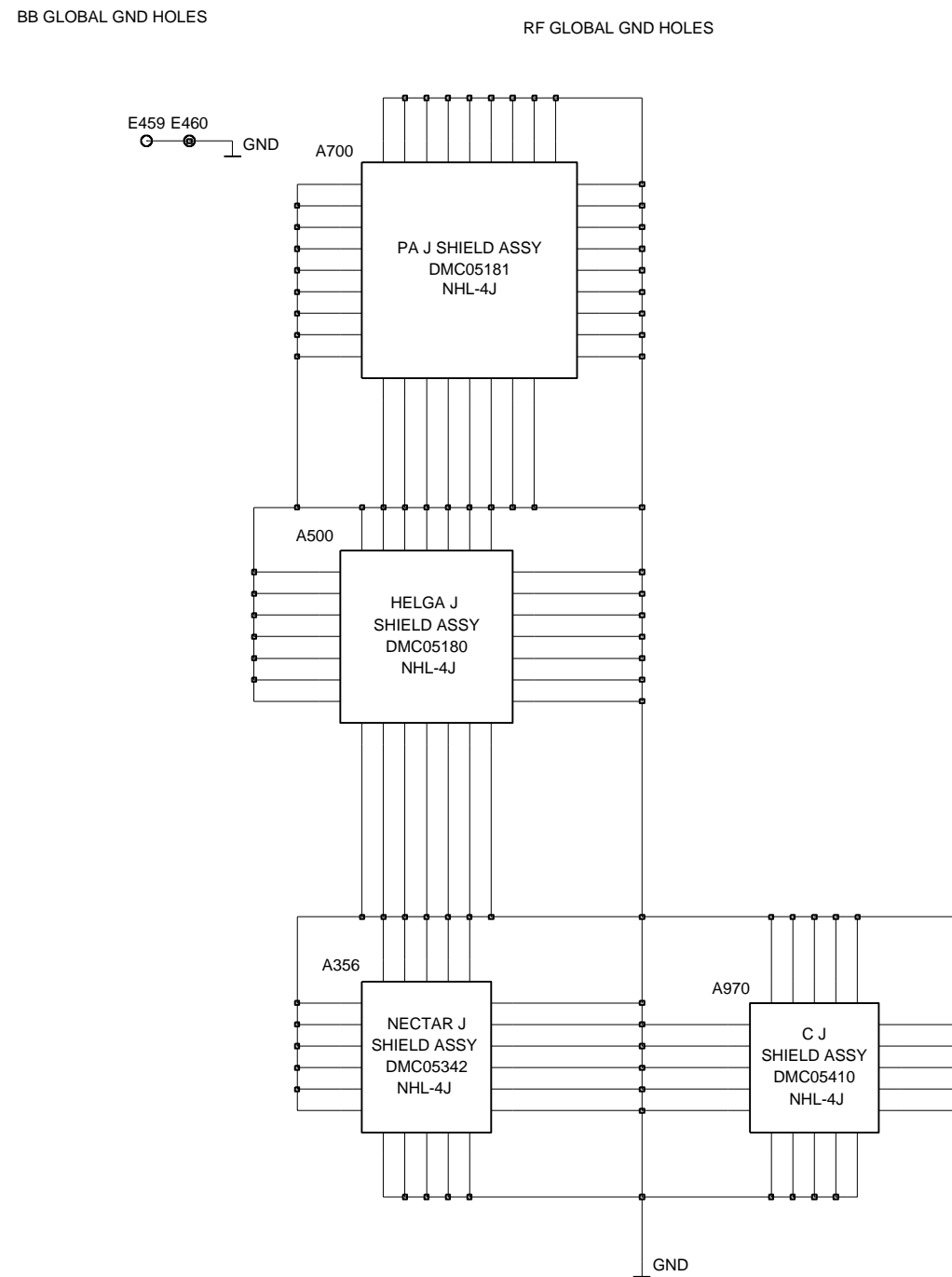
Block diagram



RF Top Level

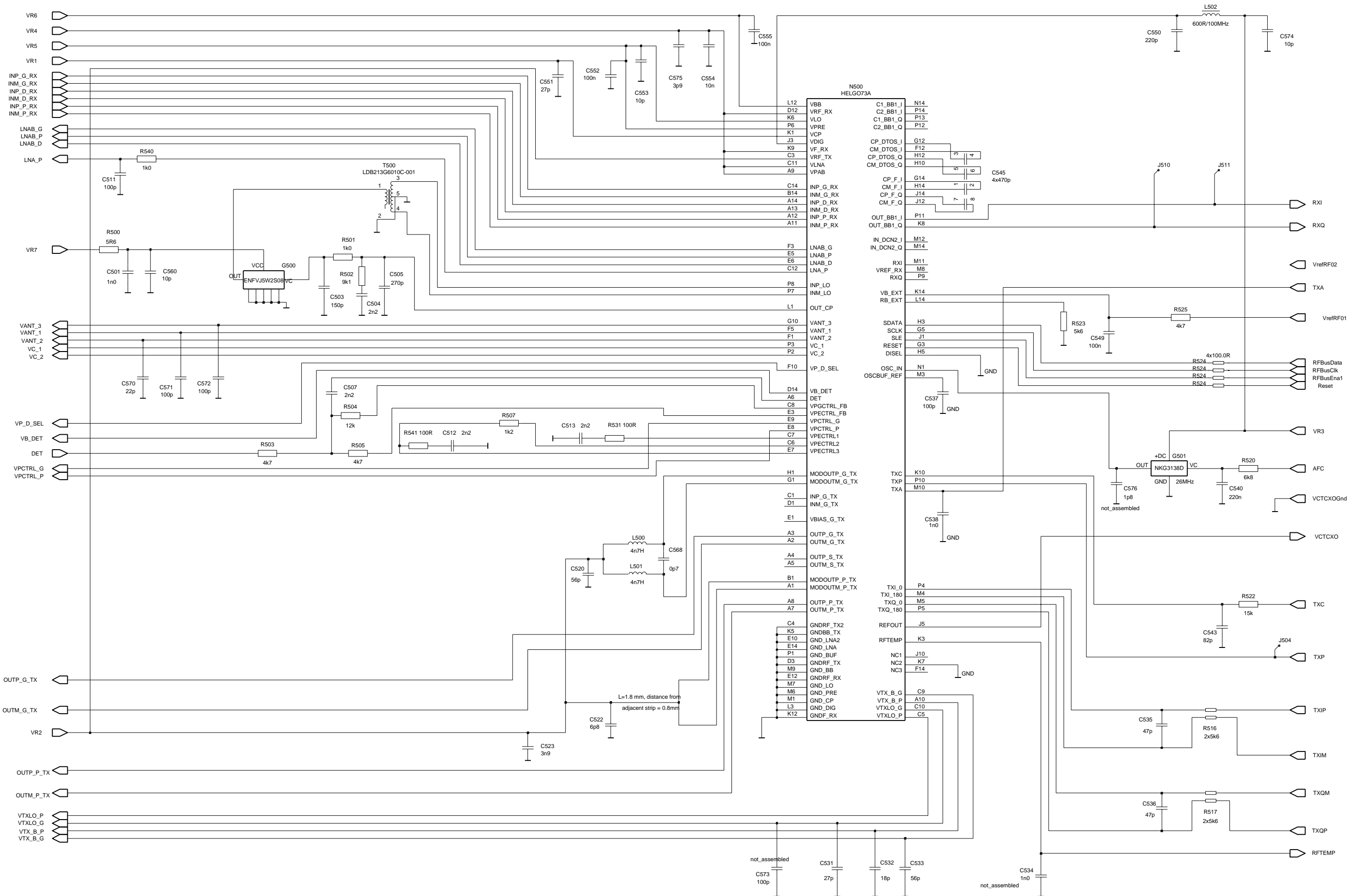


RF Shields and vias

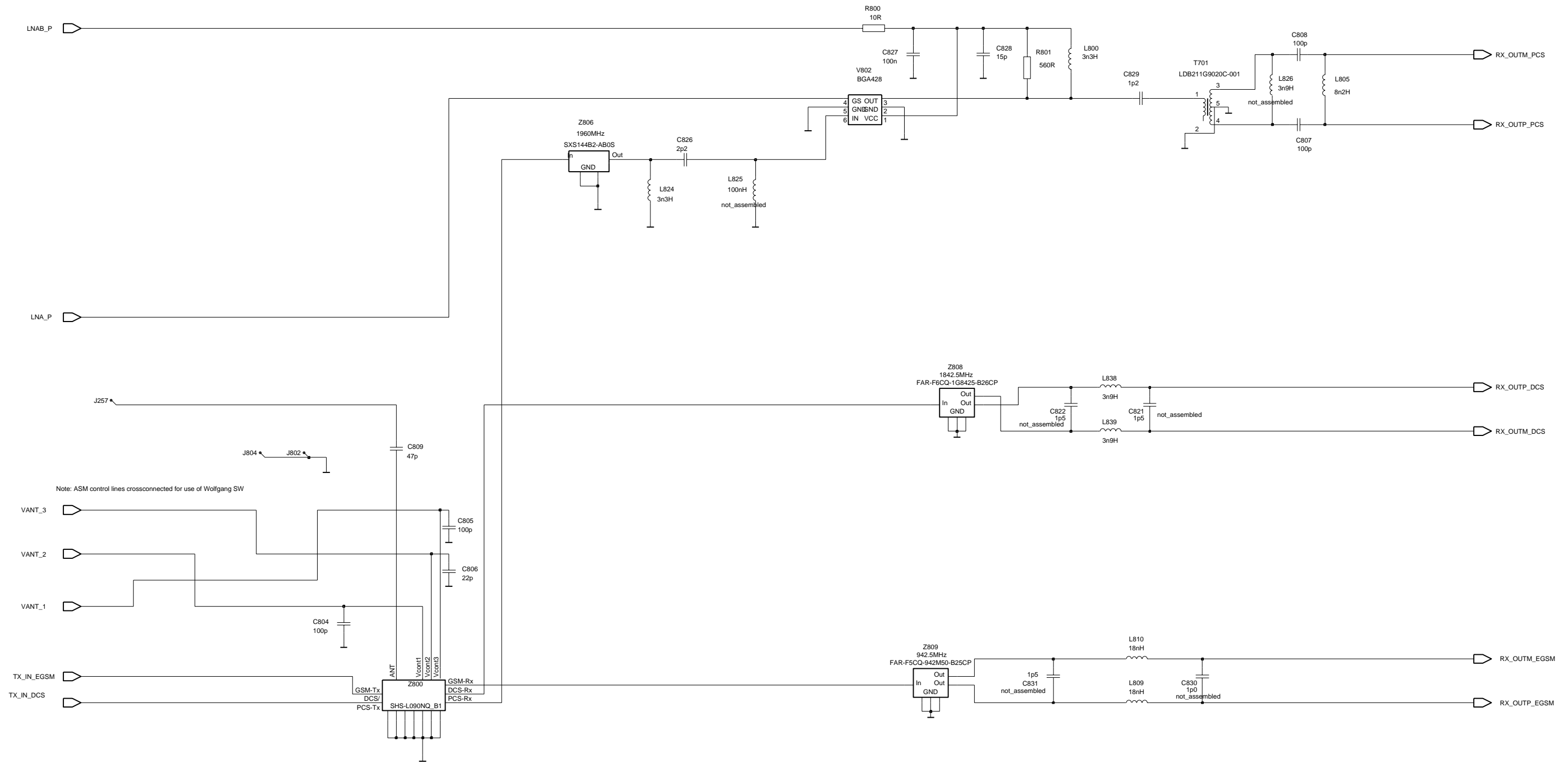


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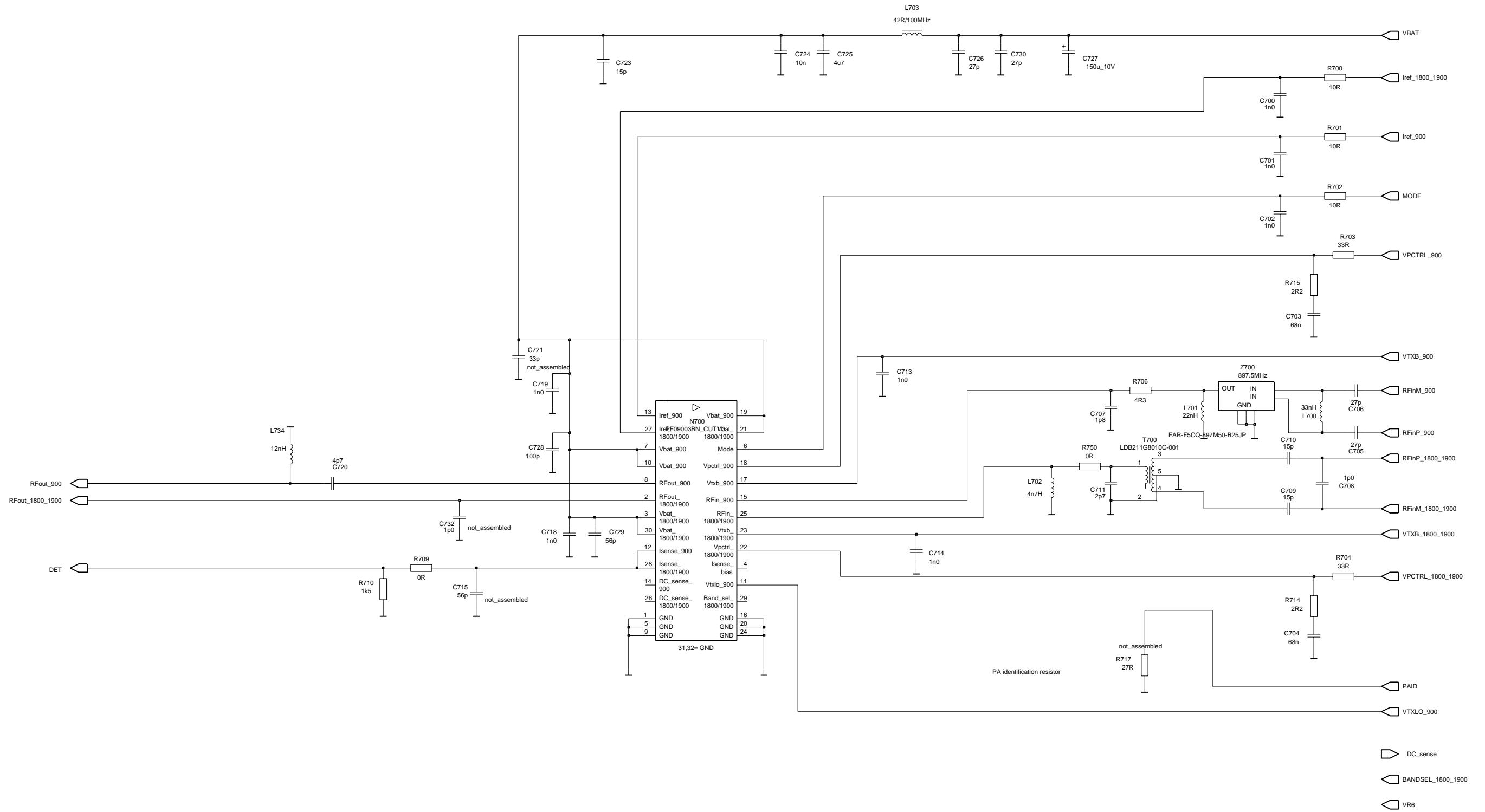
HELGO



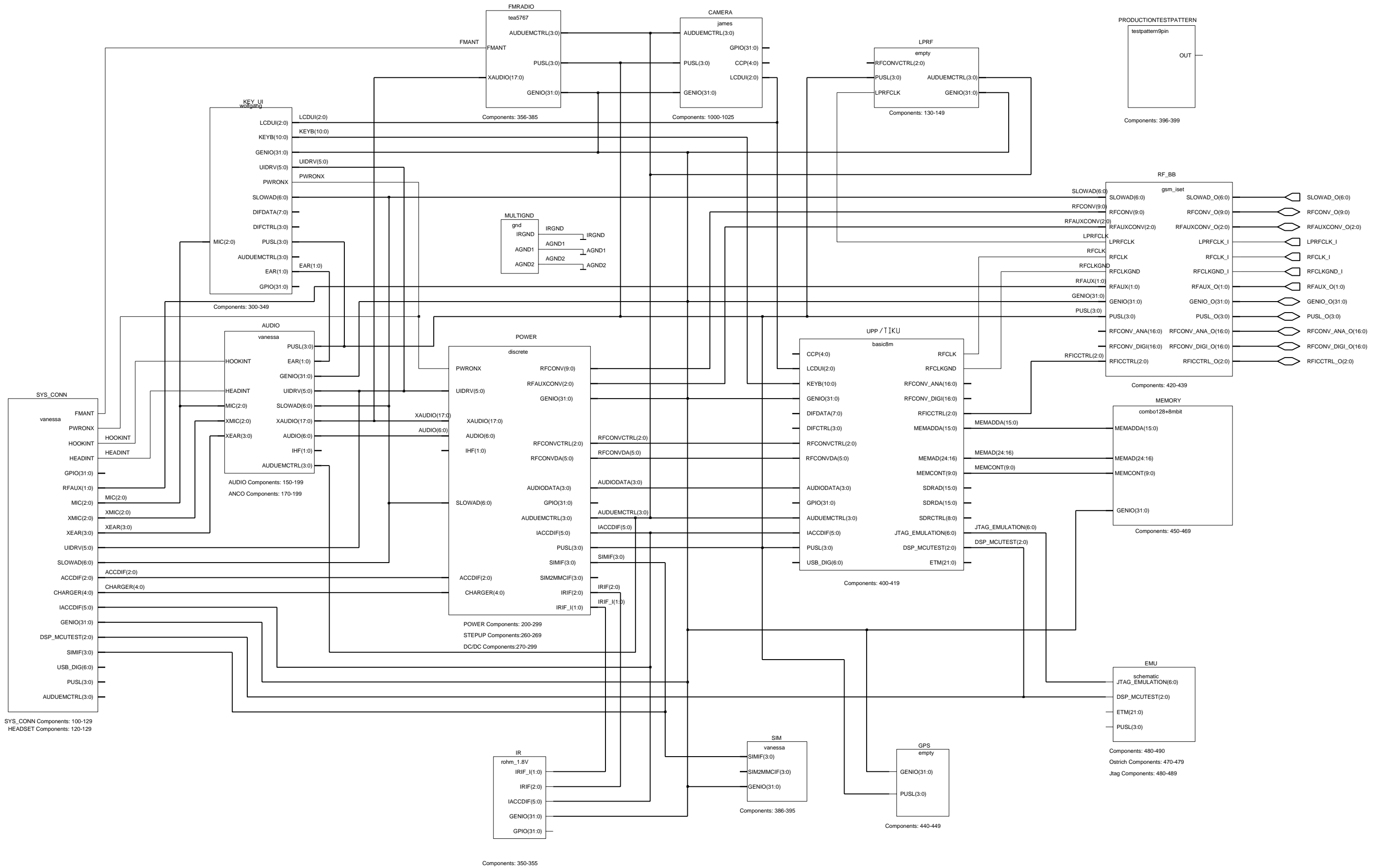
RX Front End and Antenna Switch



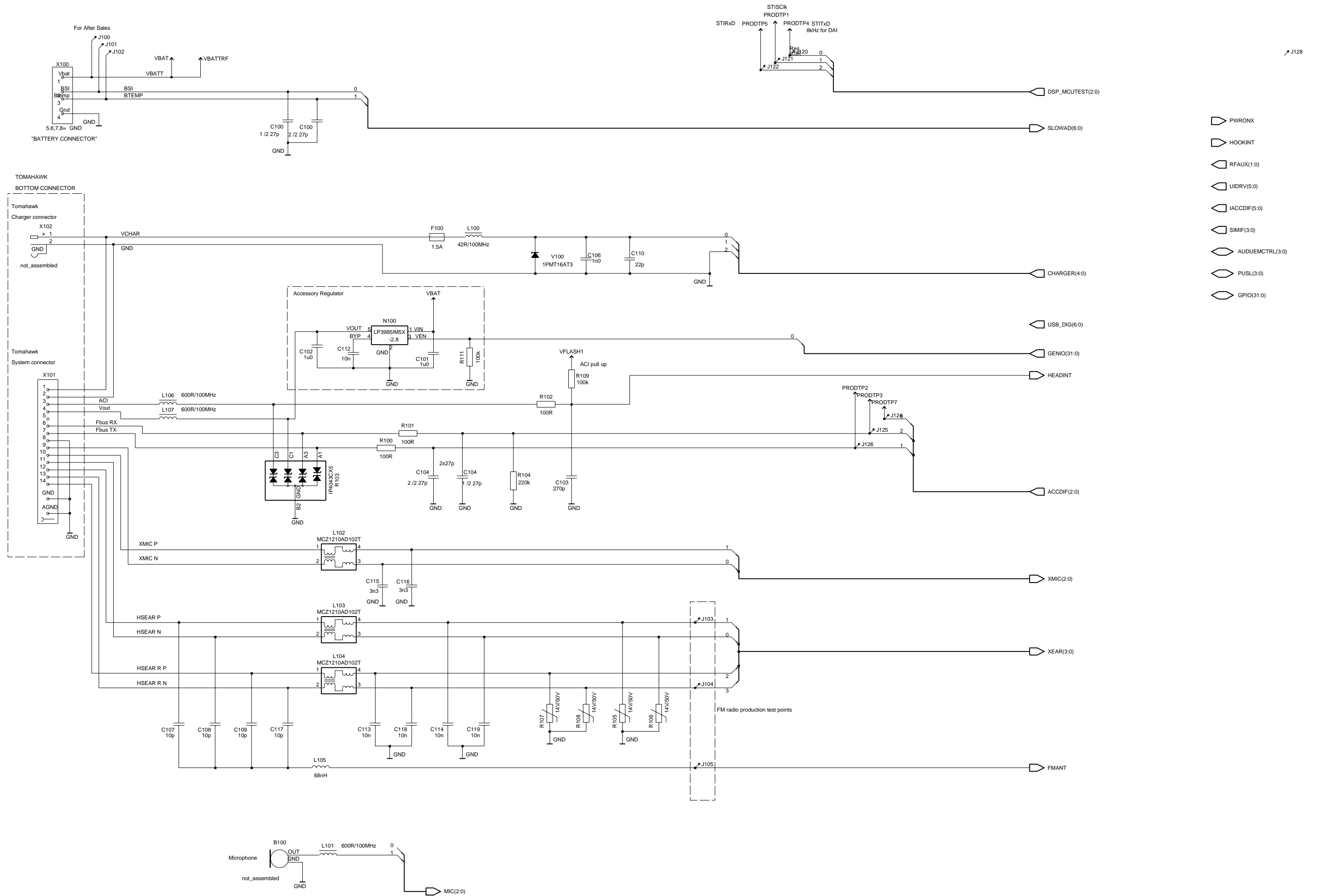
Power Amplifier and Power Detection



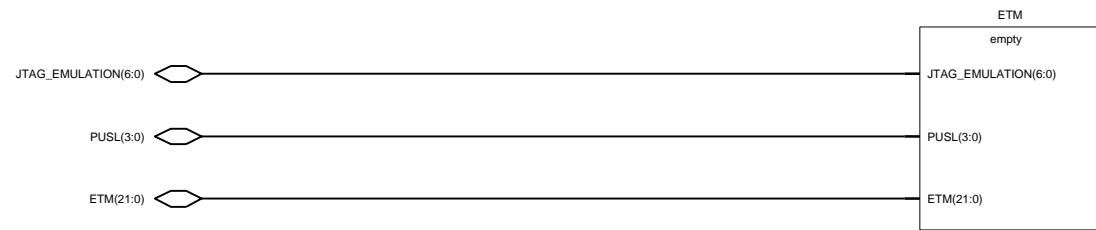
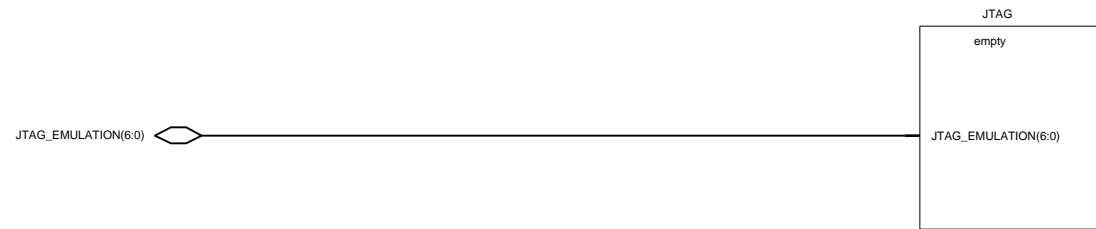
DCT4 Common BB (Top Level)



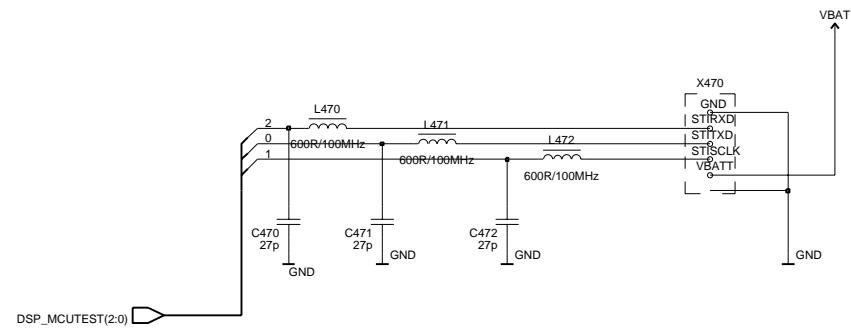
System Connector



Test and Emulator Interface

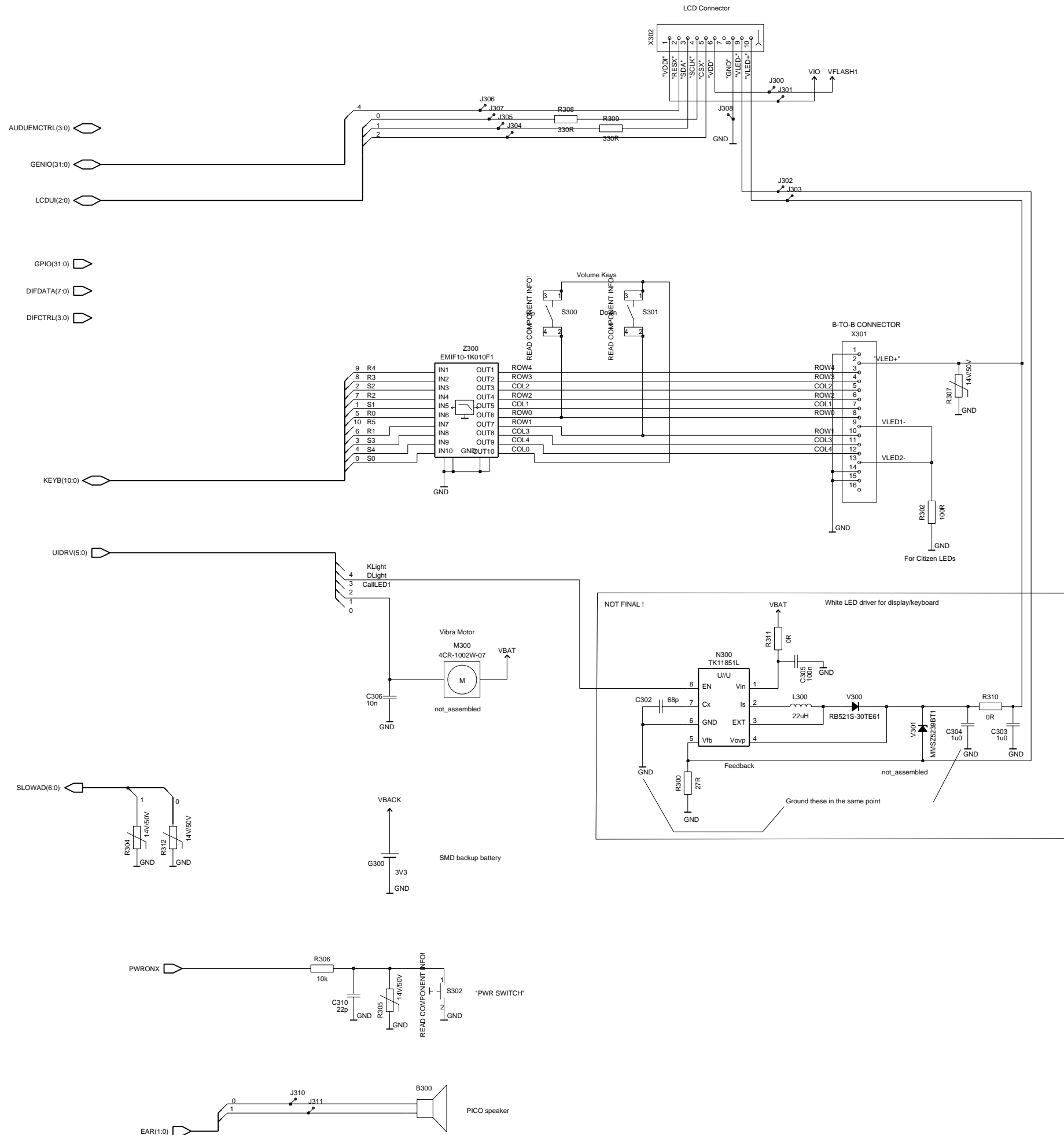


Connector Based Test Interface

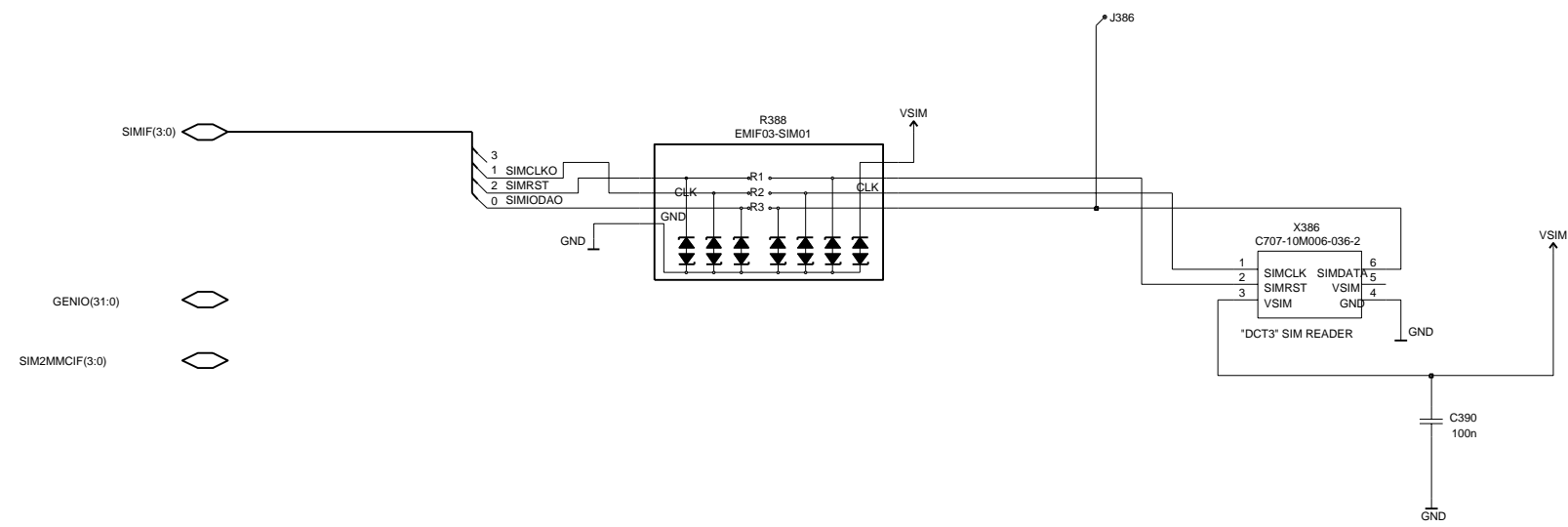


UI

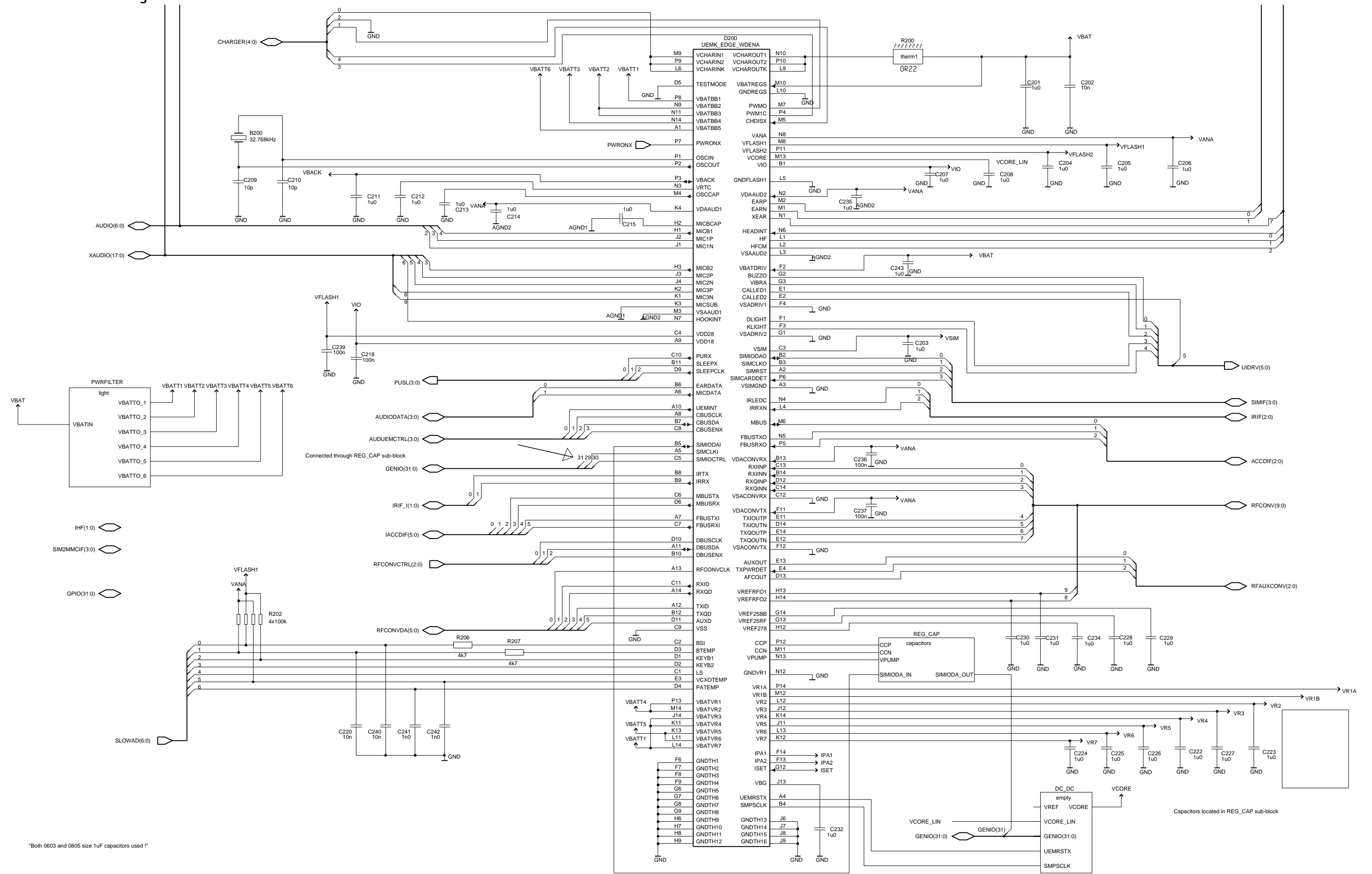
PUSL(3:0)



SIMreader



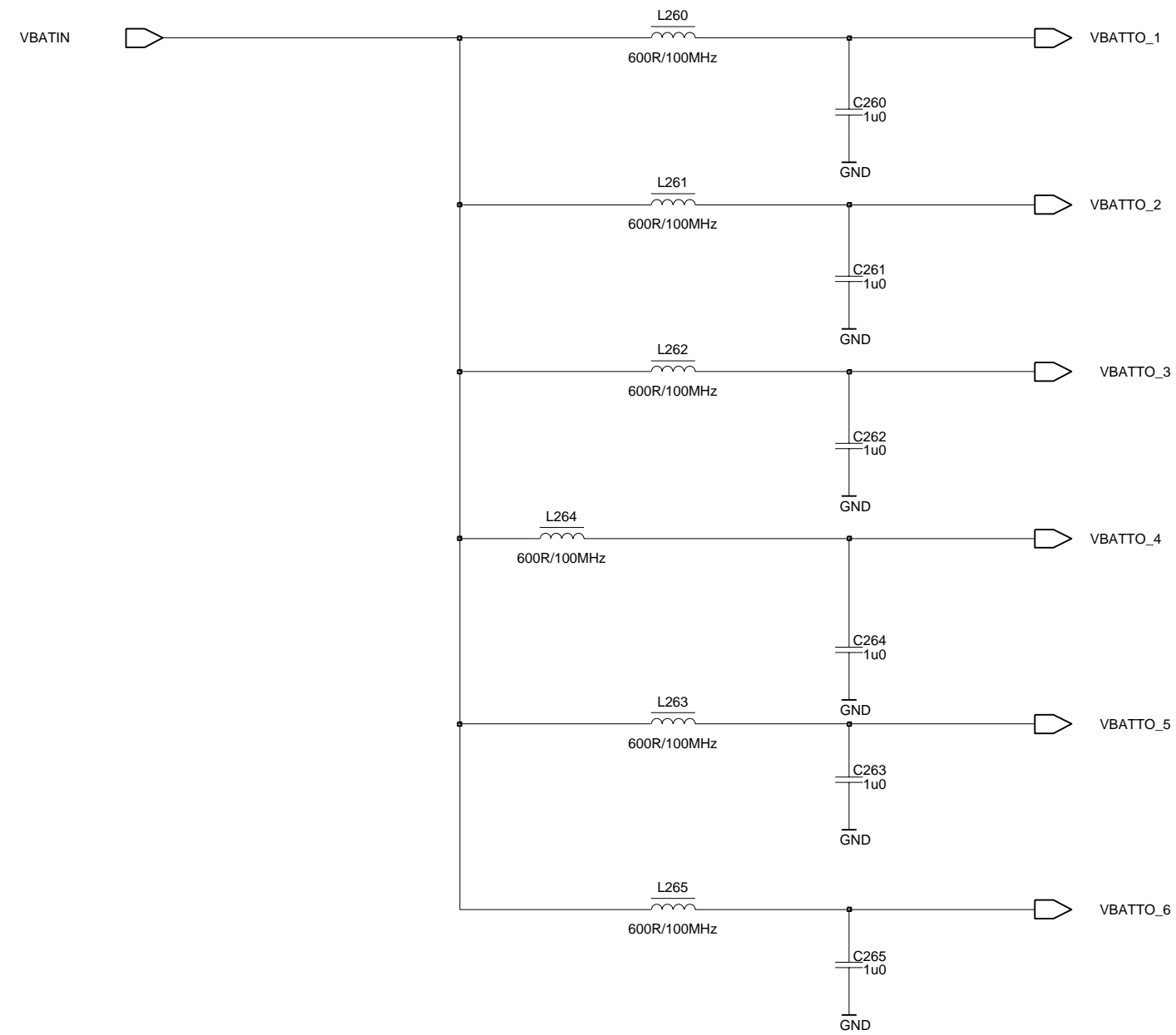
Discrete Power Management



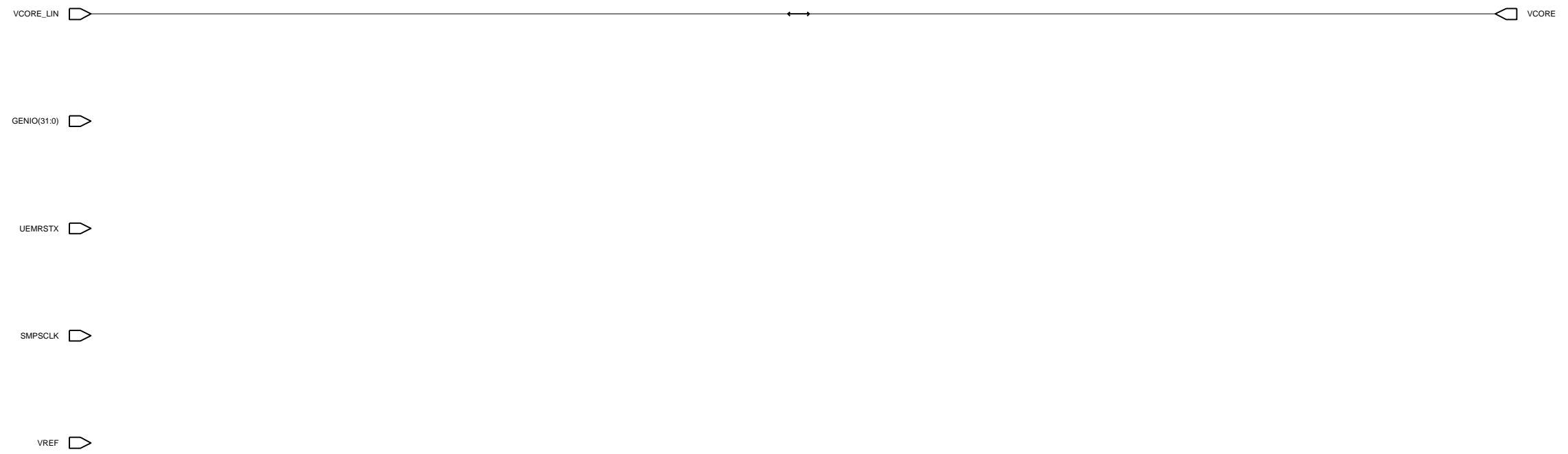
Both 0603 and 0805 size 1uF capacitors used !

Used refs in REG_CAP: C238, C200, C219, C233, C221 and R205

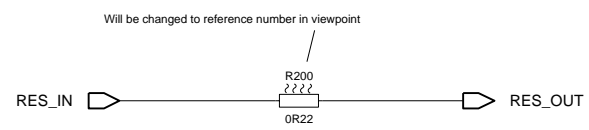
Light Filtering



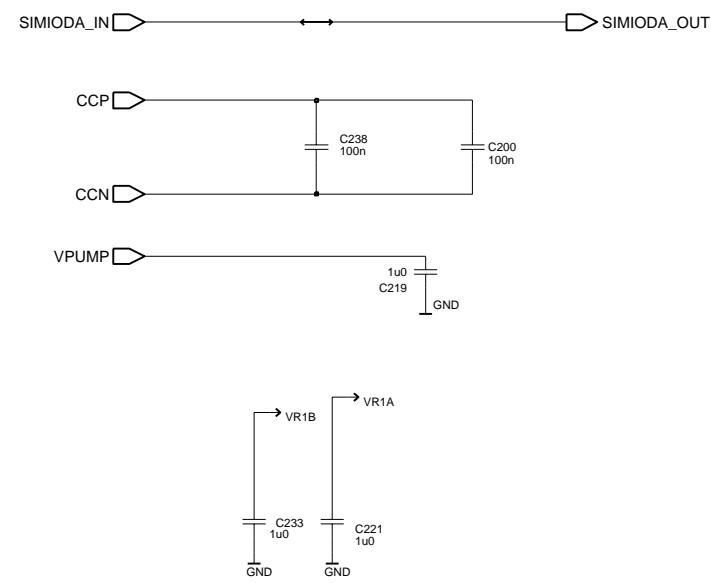
DC/DC Converter



Thermal Resistor R200

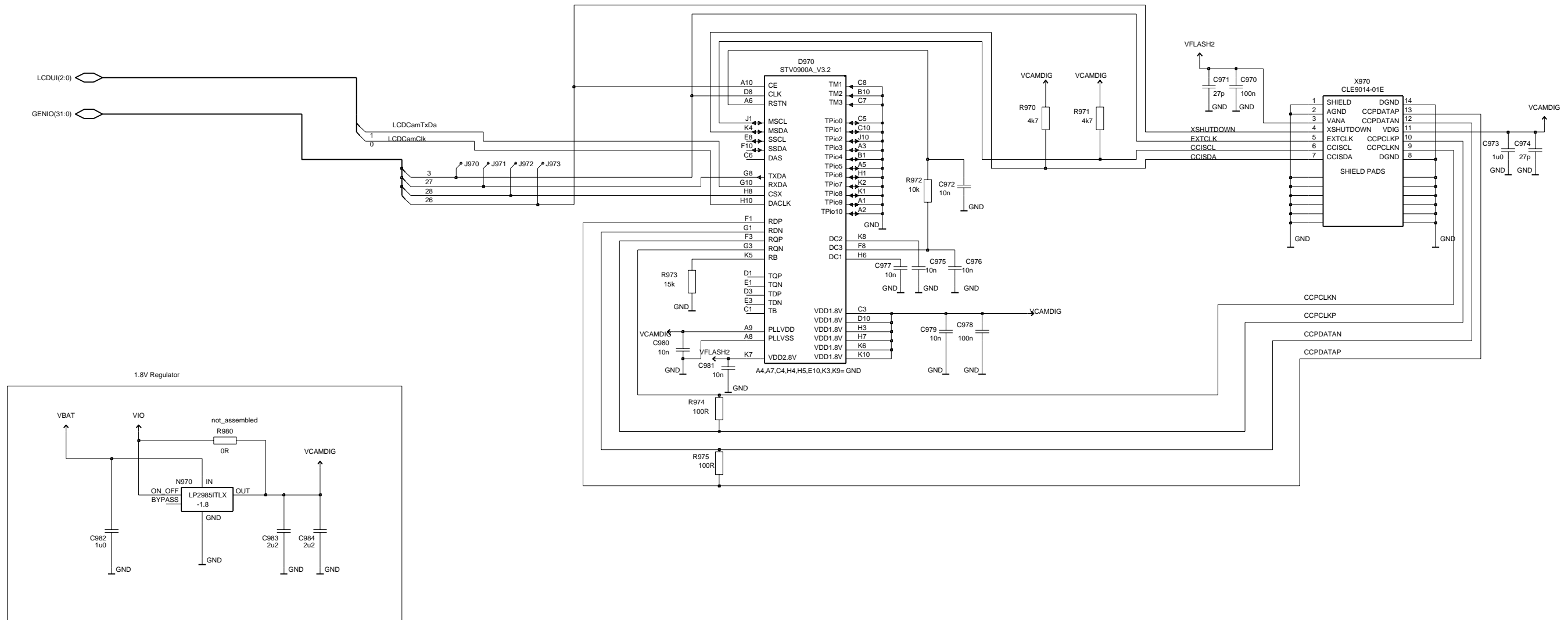
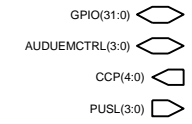


For Old Power Discrete Users

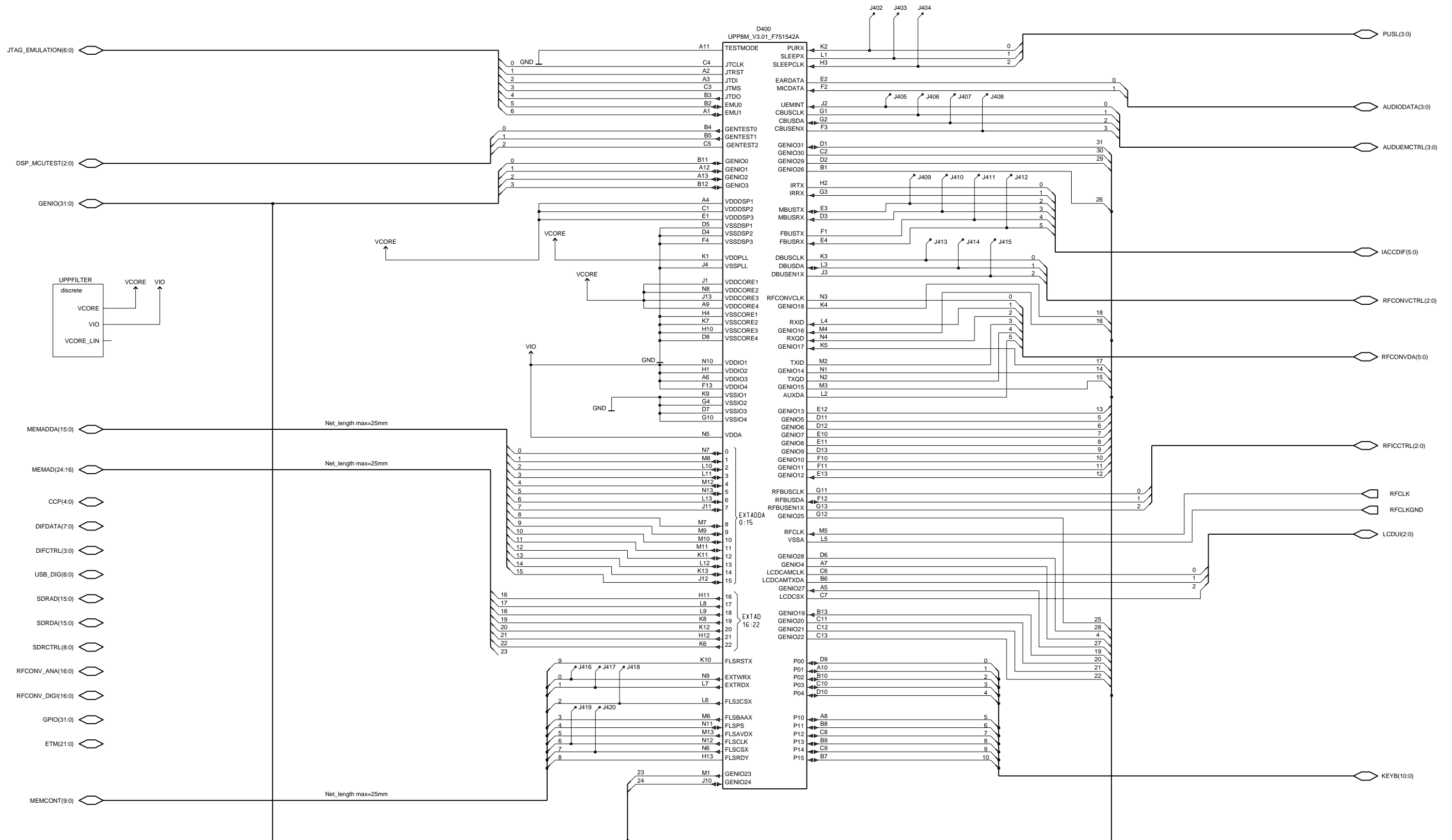


Camera

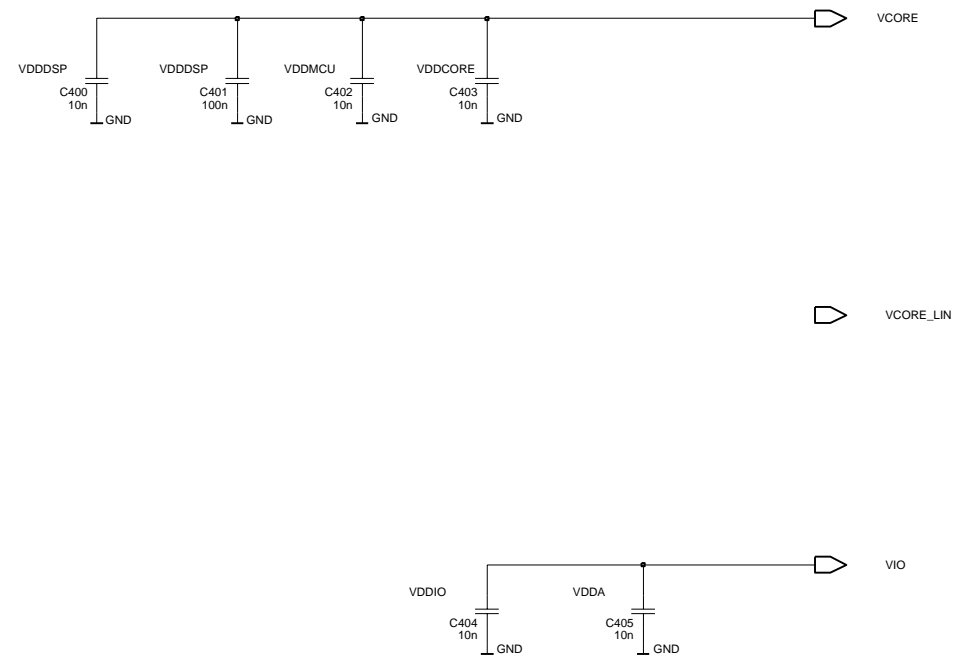
NOTE! New reference numbers 970-999, usage must be checked from RFI




UPP




Discrete Decoupling Capacitors for UPP



DCT4 Common BB/No LPRF Interface

GENIO(31:0) 

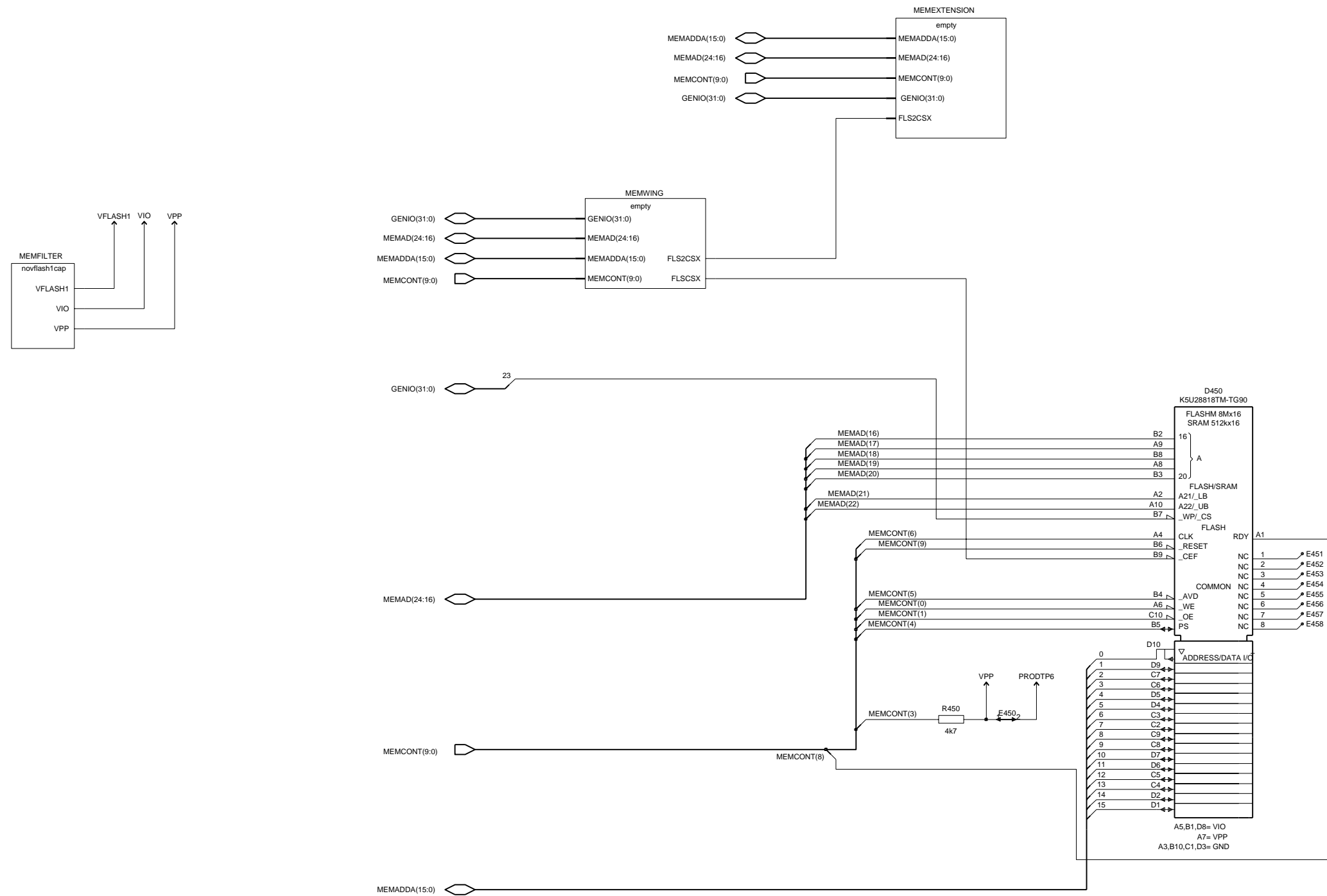
AUDUEMCTRL(3:0) 

PUSL(3:0) 

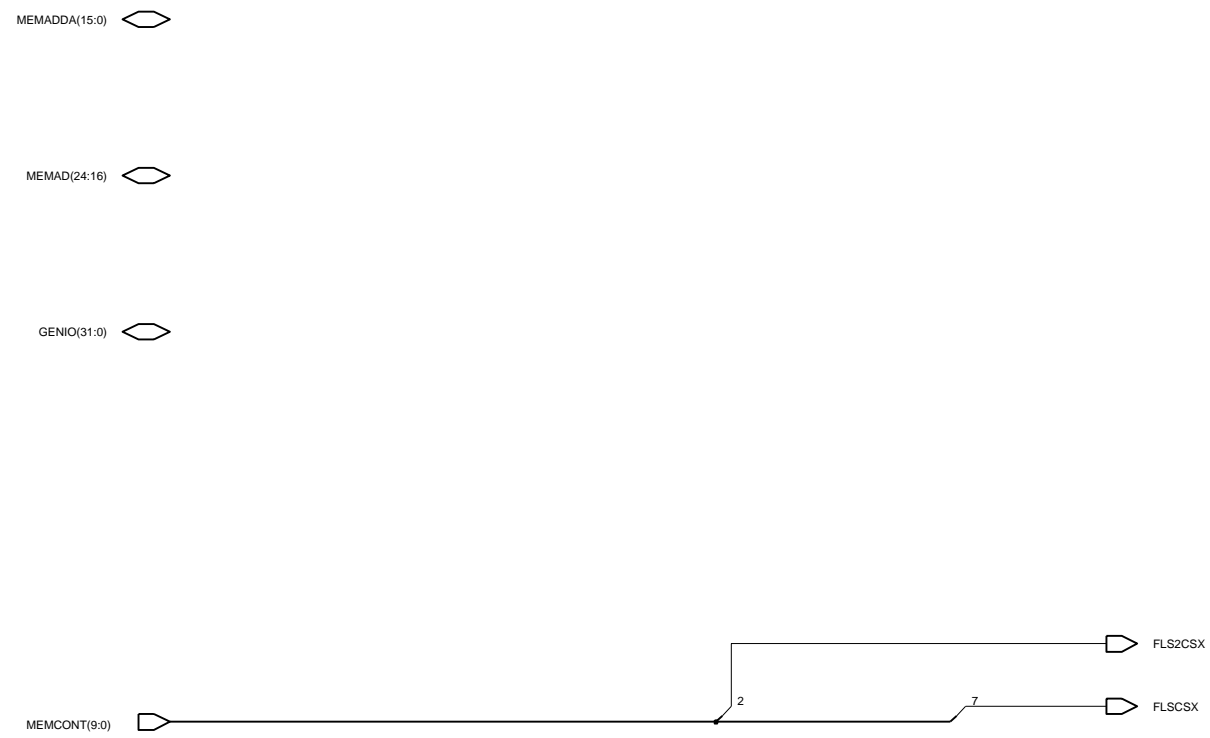
RFCONVCTRL(2:0) 

LPRFCLK 

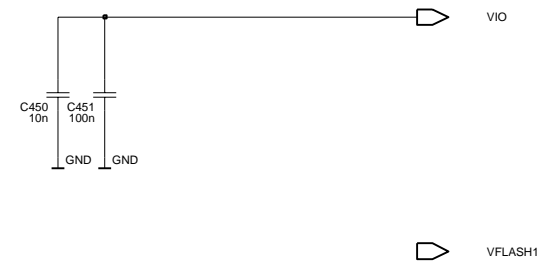
Combo Memory



Empty Wing Sheet




Discrete Capacitors for Memory Without VFlash1





VFLASH1




Memory Extension

GENIO(31:0) 

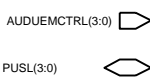
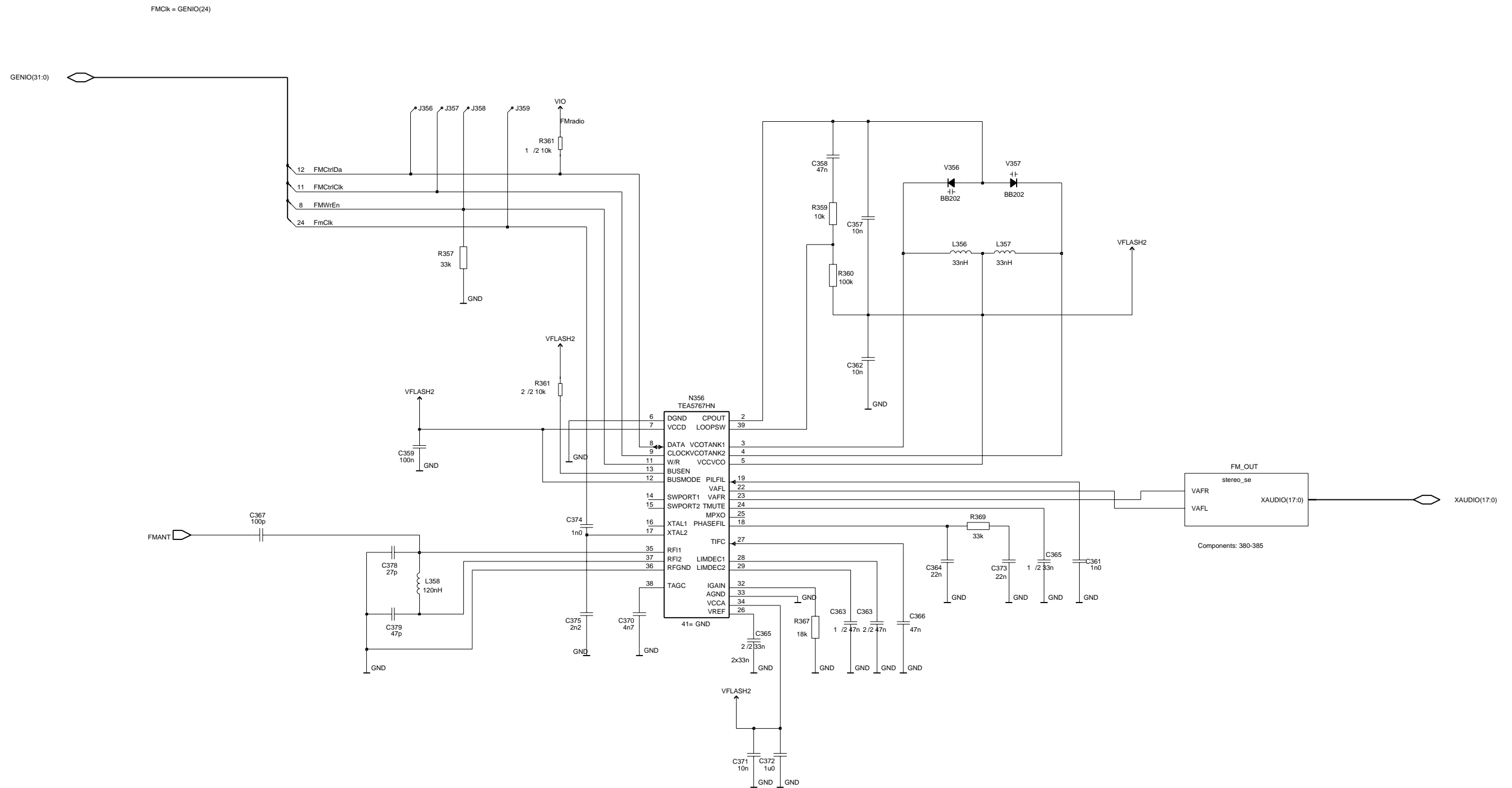
FLS2CSX 

MEMAD(24:16) 

MEMCONT(9:0) 

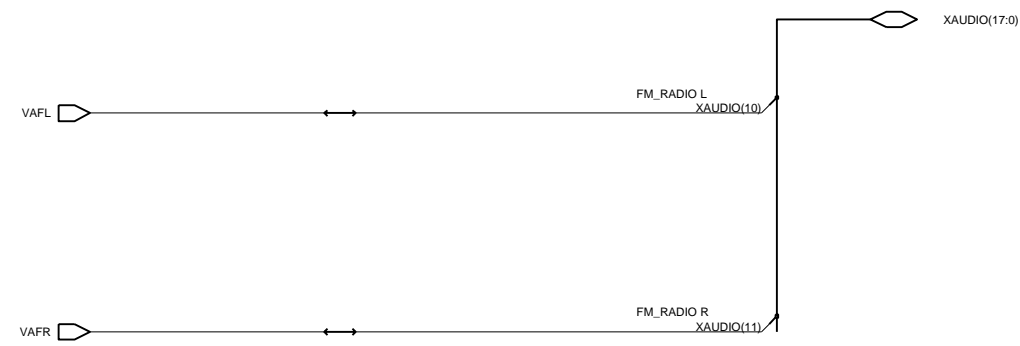
MEMADDA(15:0) 

FM Radio

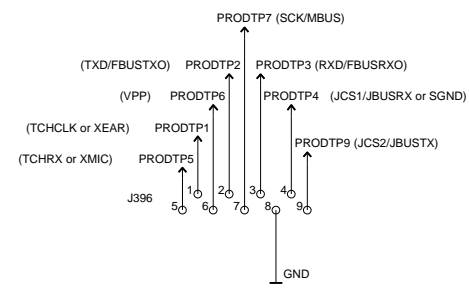


Notice:
 C374 (1n0) and C375 (2n2) are configured for 32kHz reference clock
 If reference clock is 6.5MHz, use C374 (3p9) and C375 (10p)

FM Radio

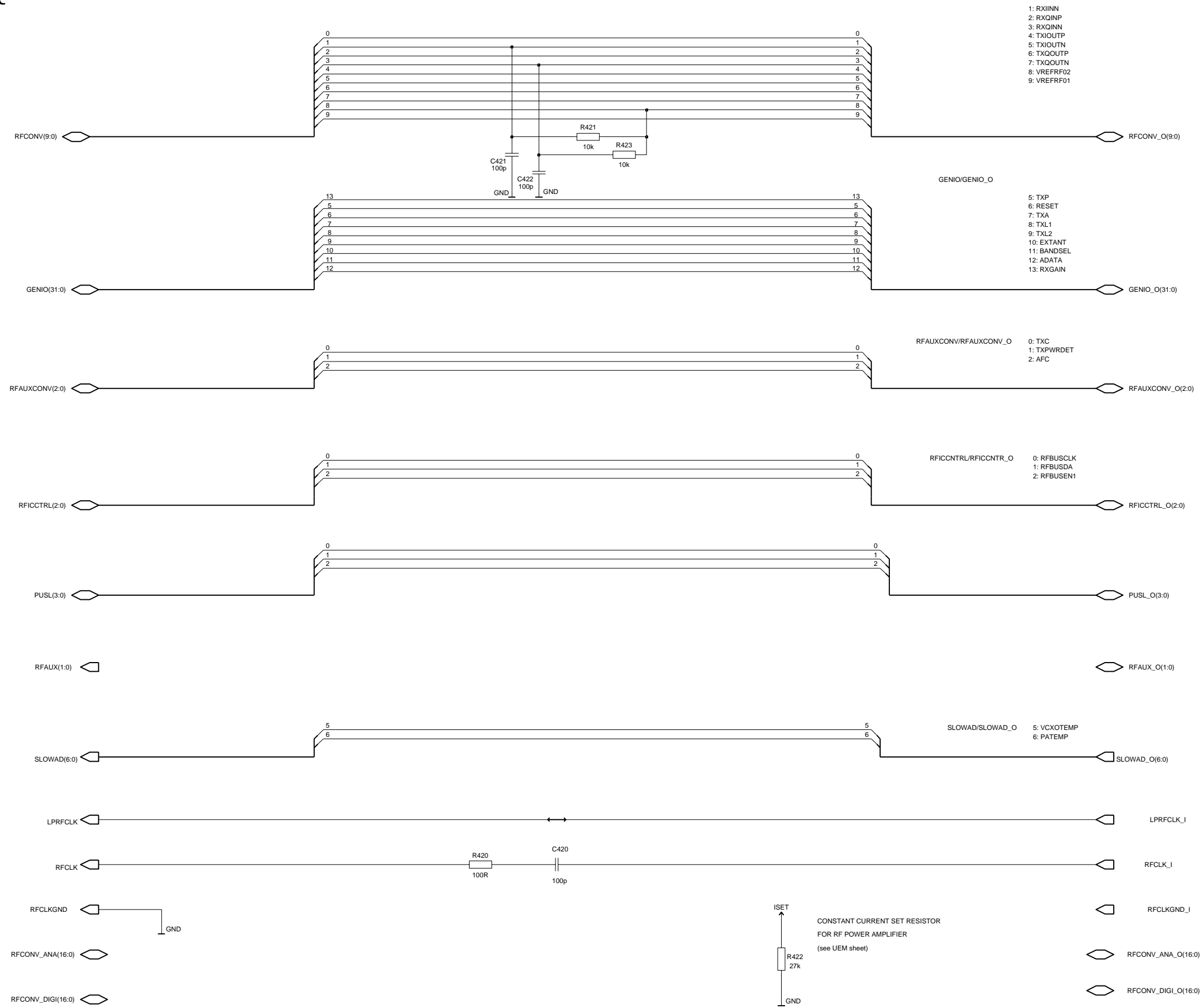


Production Test Pattern



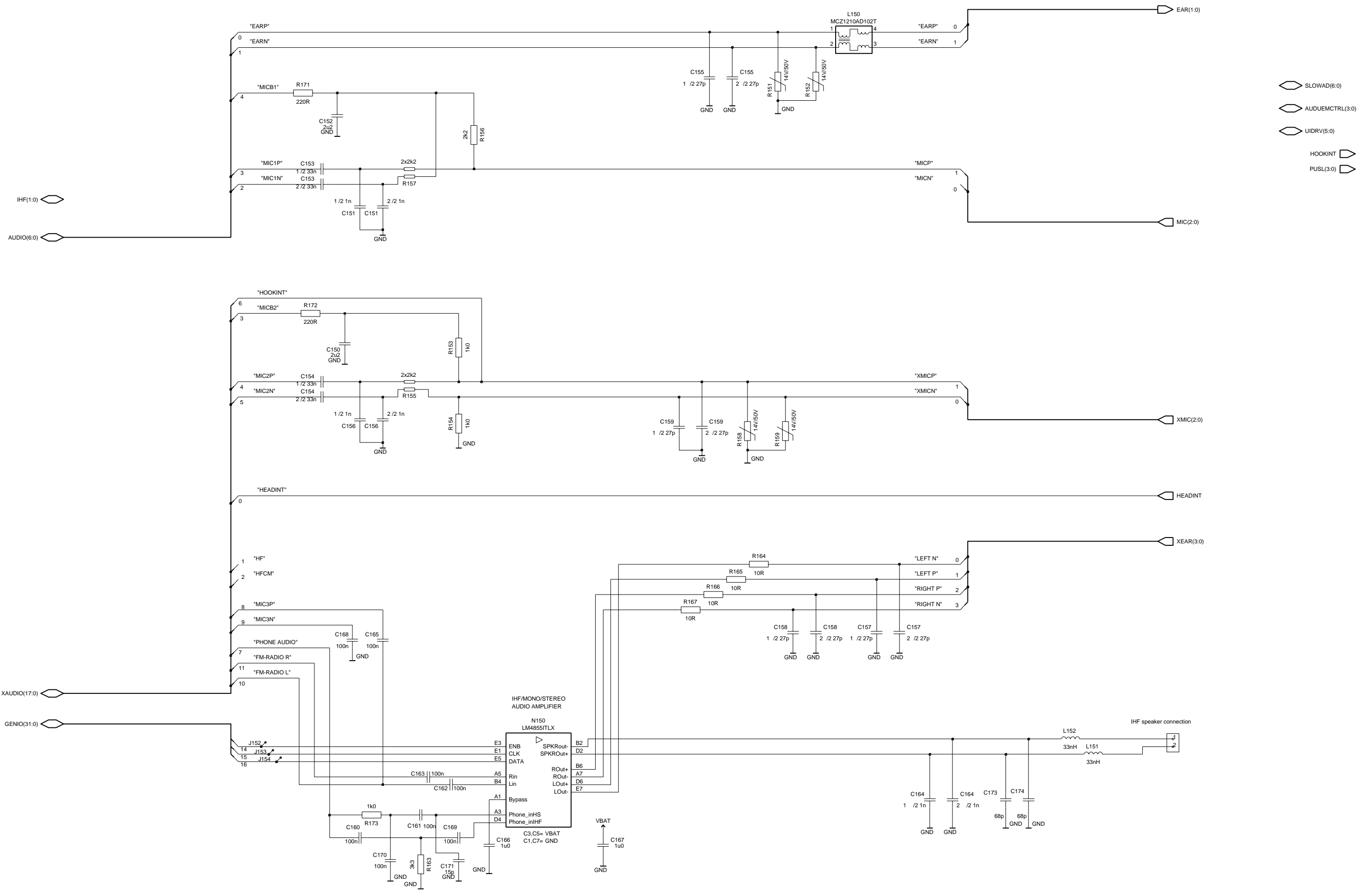
OUT

GSM RF BB Interface

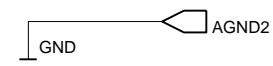
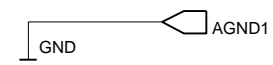
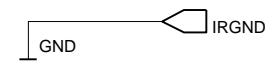


IPA1 AND IPA2 ARE USED IN RF. THE TOLERANCE OF R422 IS 1% (0402, 1430873)

Audio
Varistor arrays have reliability issues



Multi GND

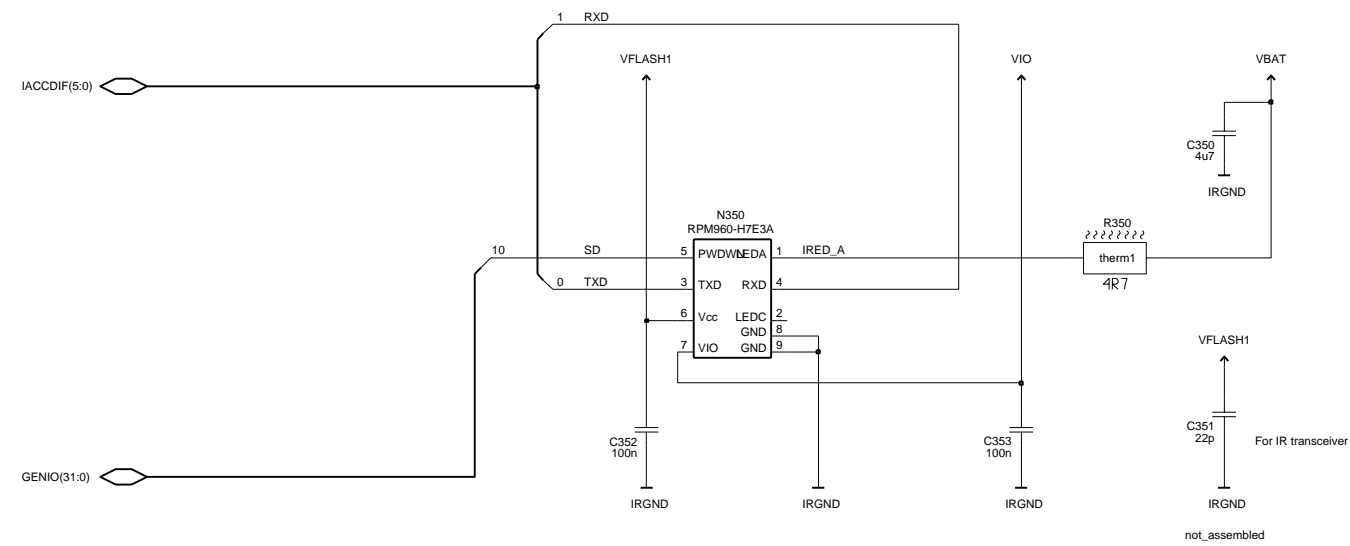


PWR Resistor 1210

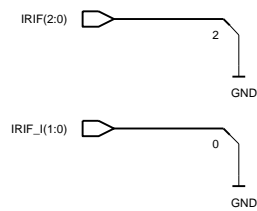
 PUSL(3:0)

 GENIQ(31:0)

IR Module



GPIO(31:0)

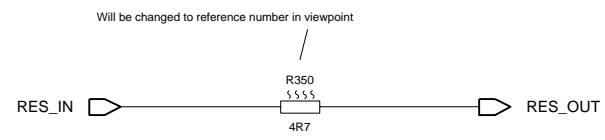


UEM IR level shifters are ground, when 1.8V IR is used!

Used references

- C 350 - 353
- N 350
- R 350

IR Resistor



Component Placement Diagram Bottom

