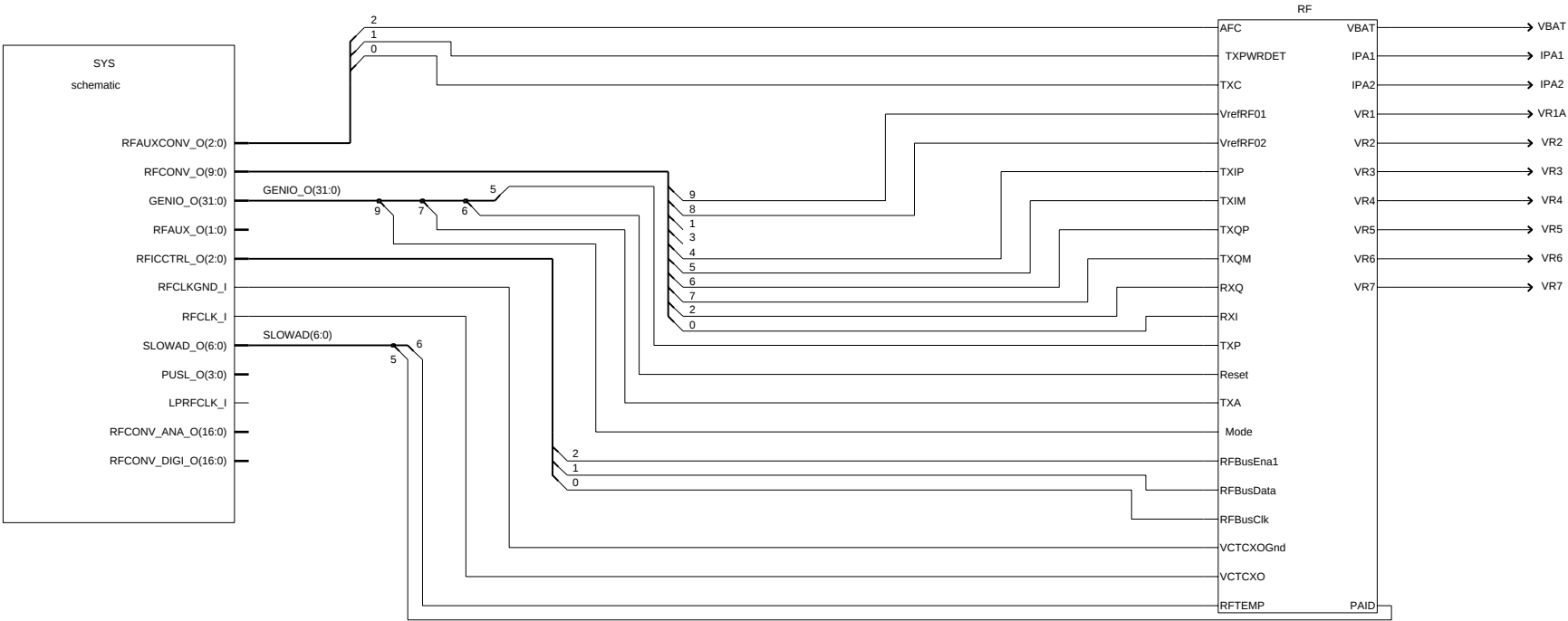


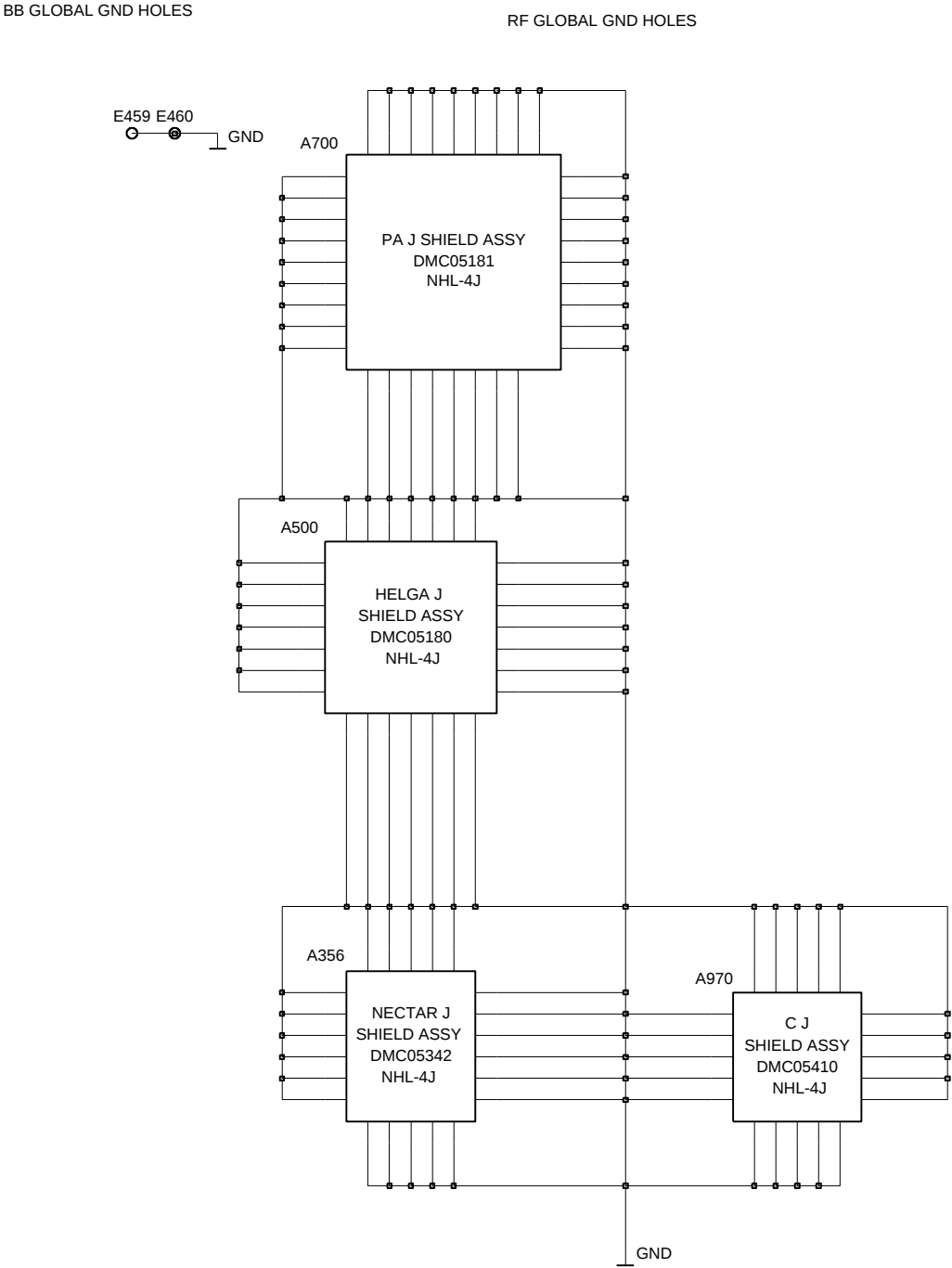
Top level



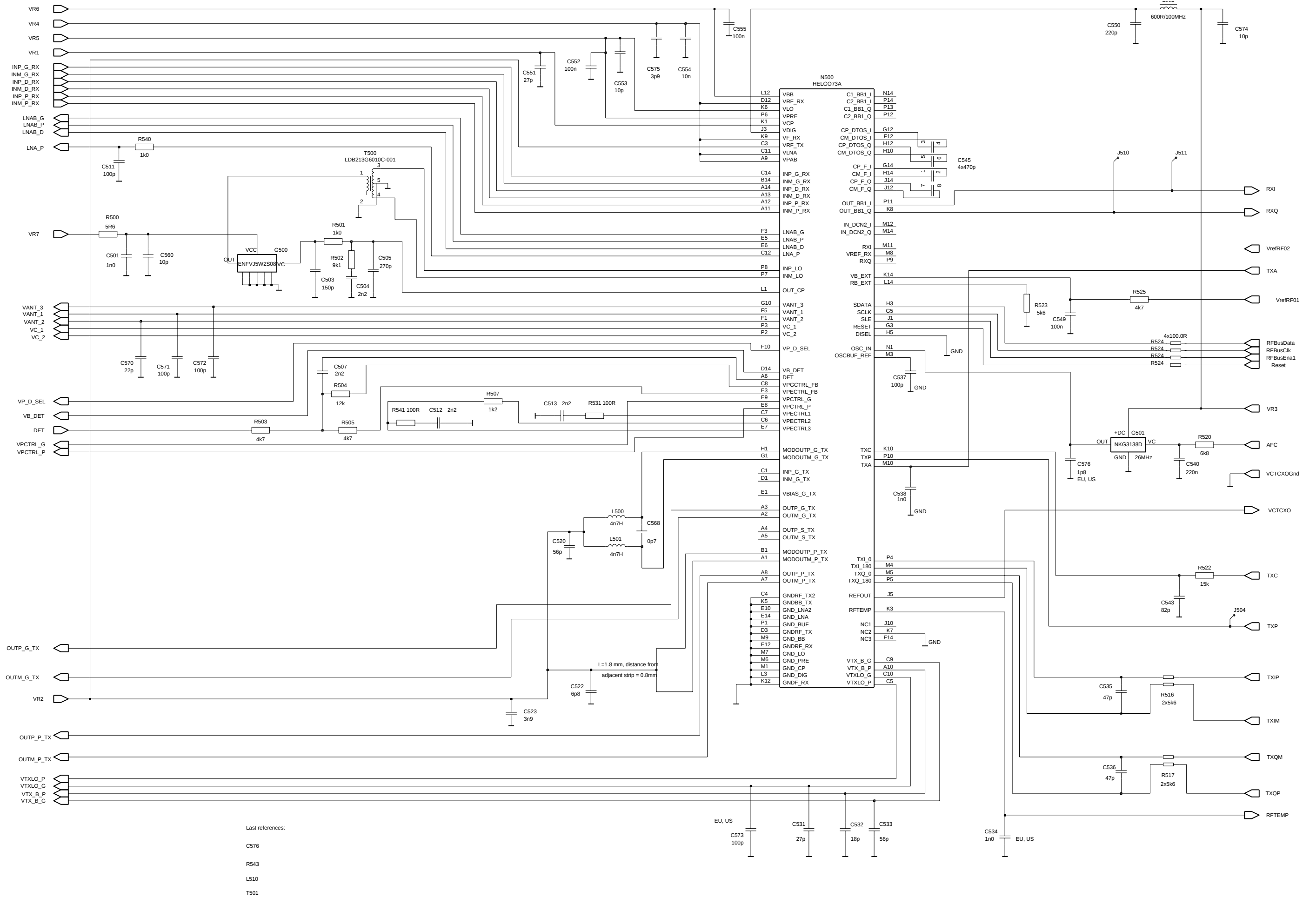
RF Top level



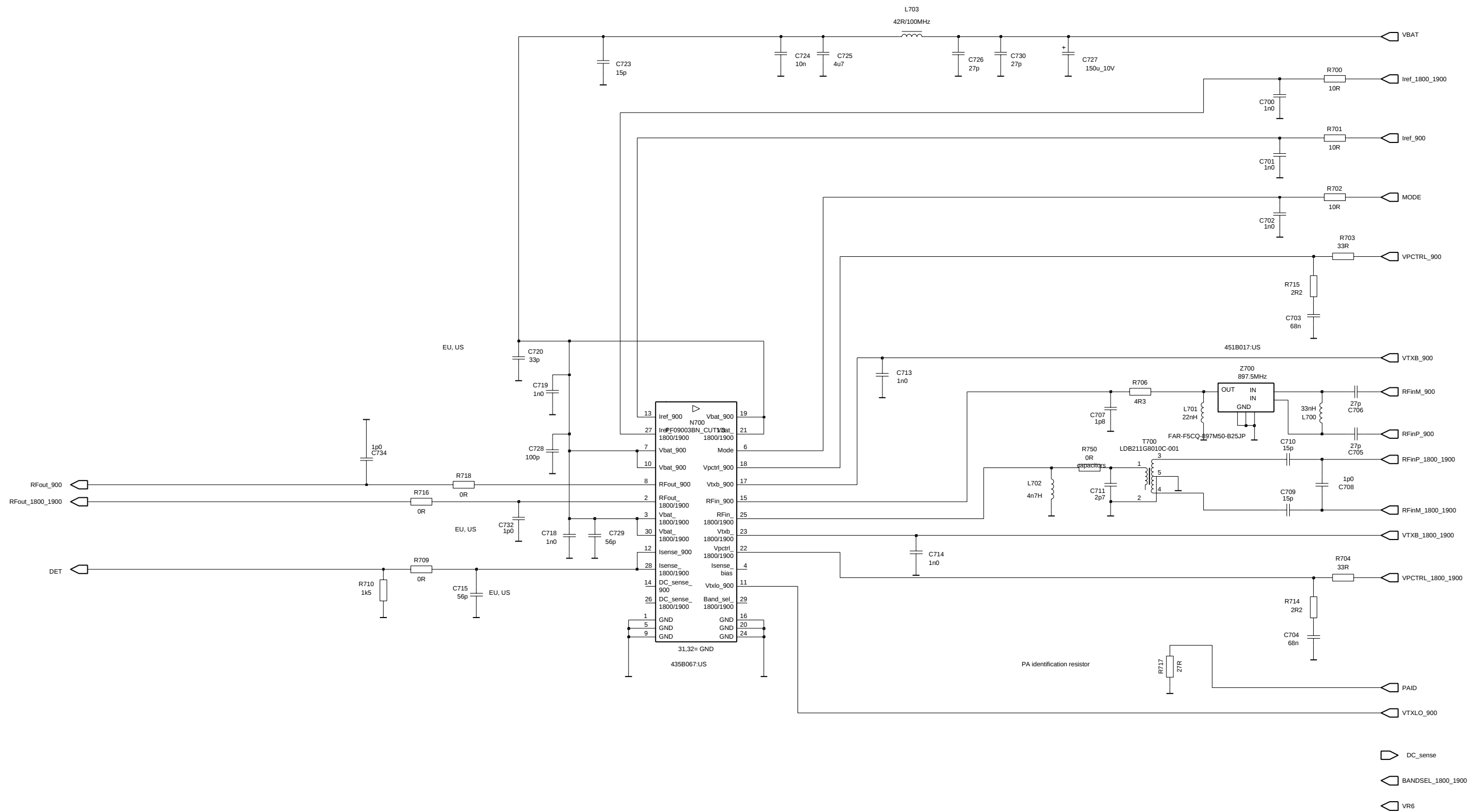
RF shields and vias



# HELGO



## Power amplifier and power detection



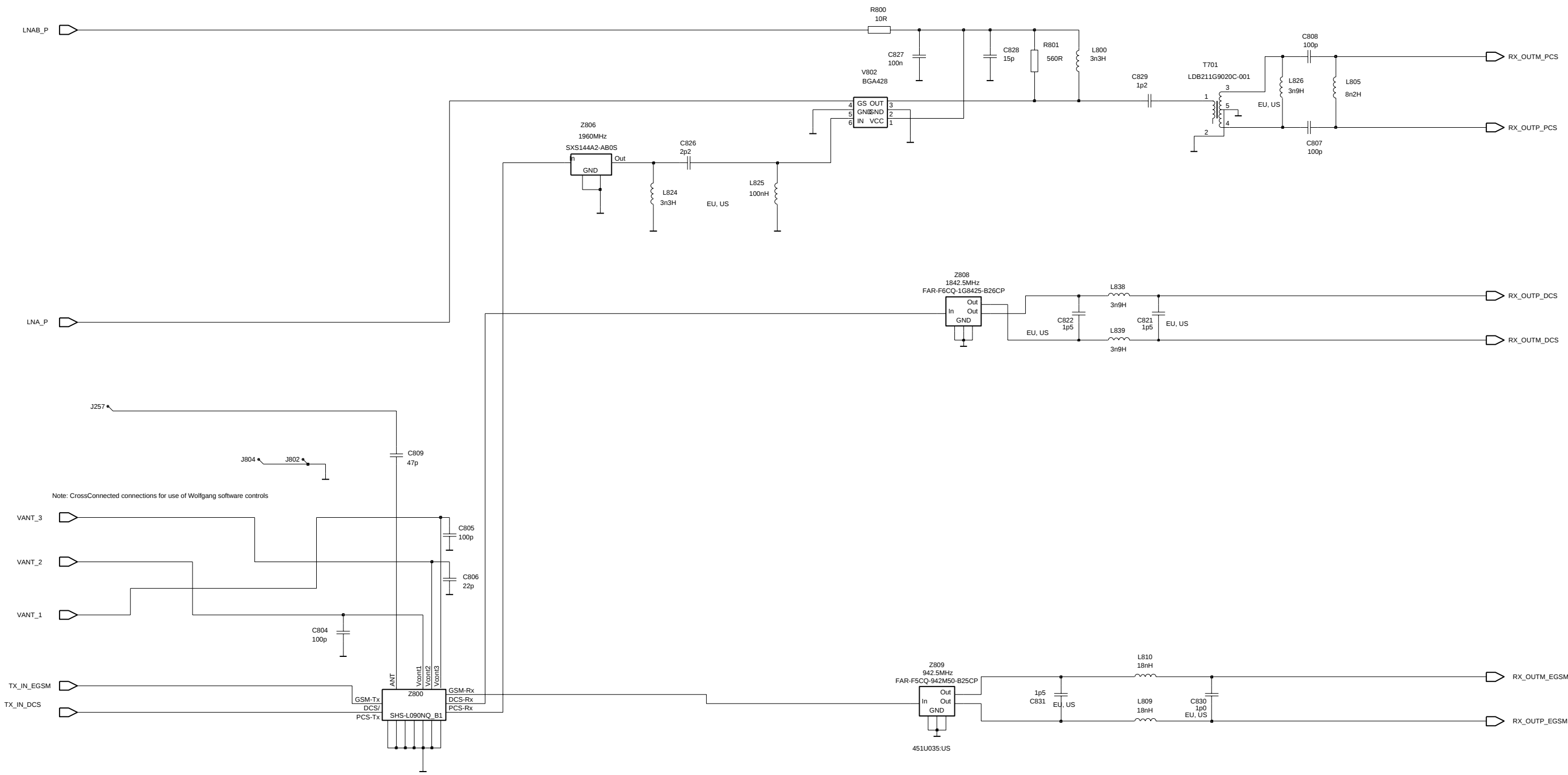
### Last references:

C733

R717

L704

RX front end and antenna switch



Last references:

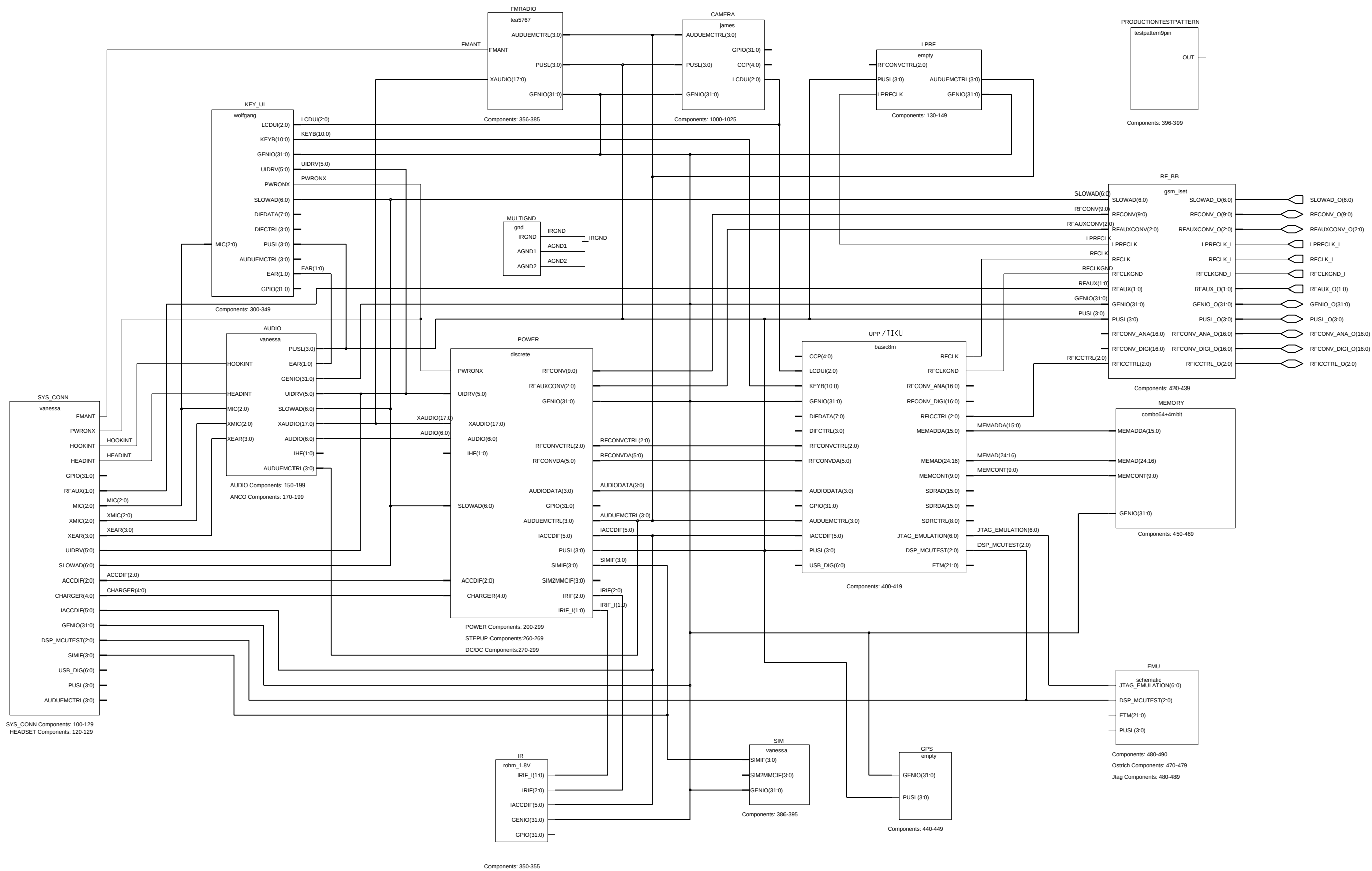
C835

R807

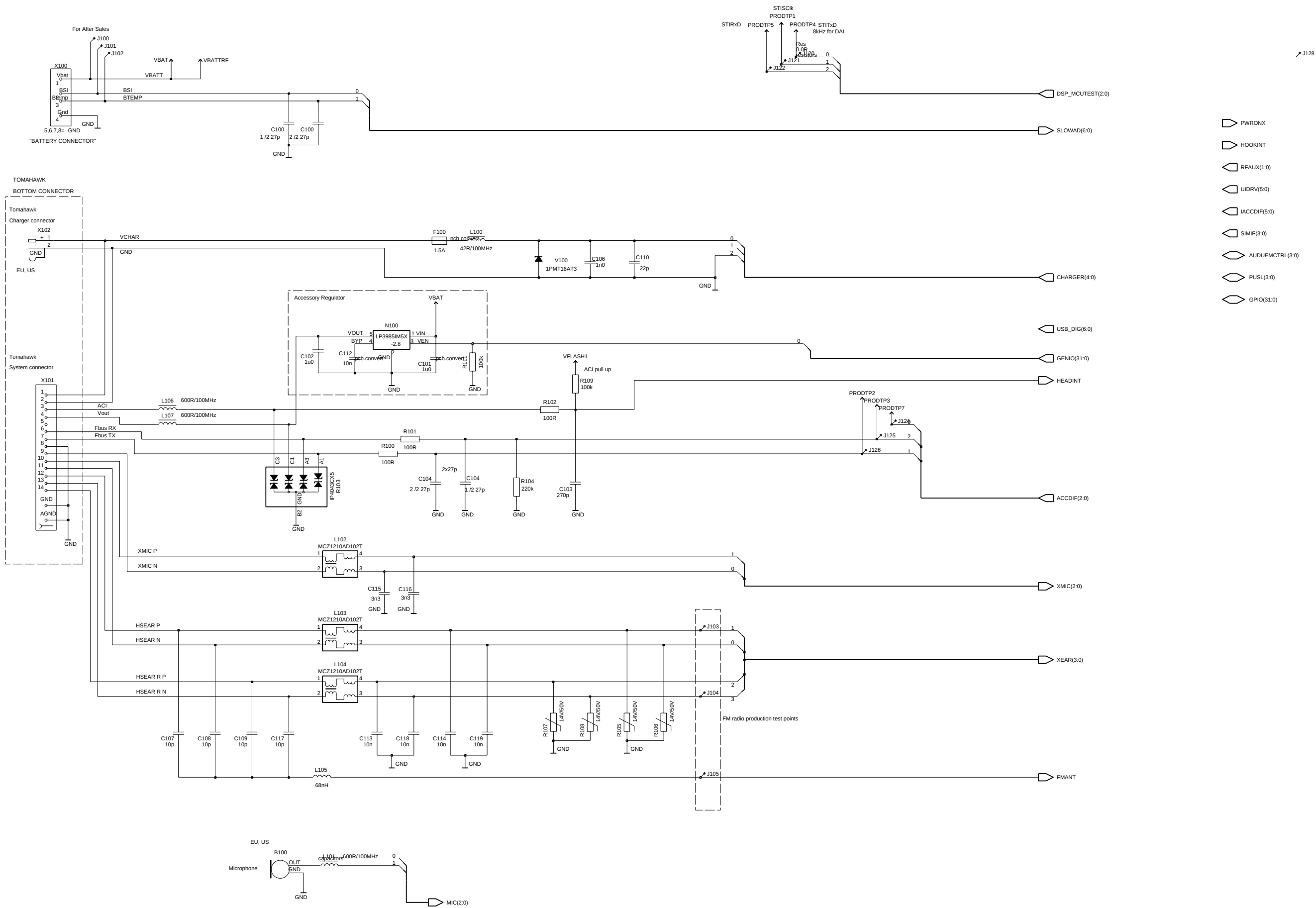
L825

Z806

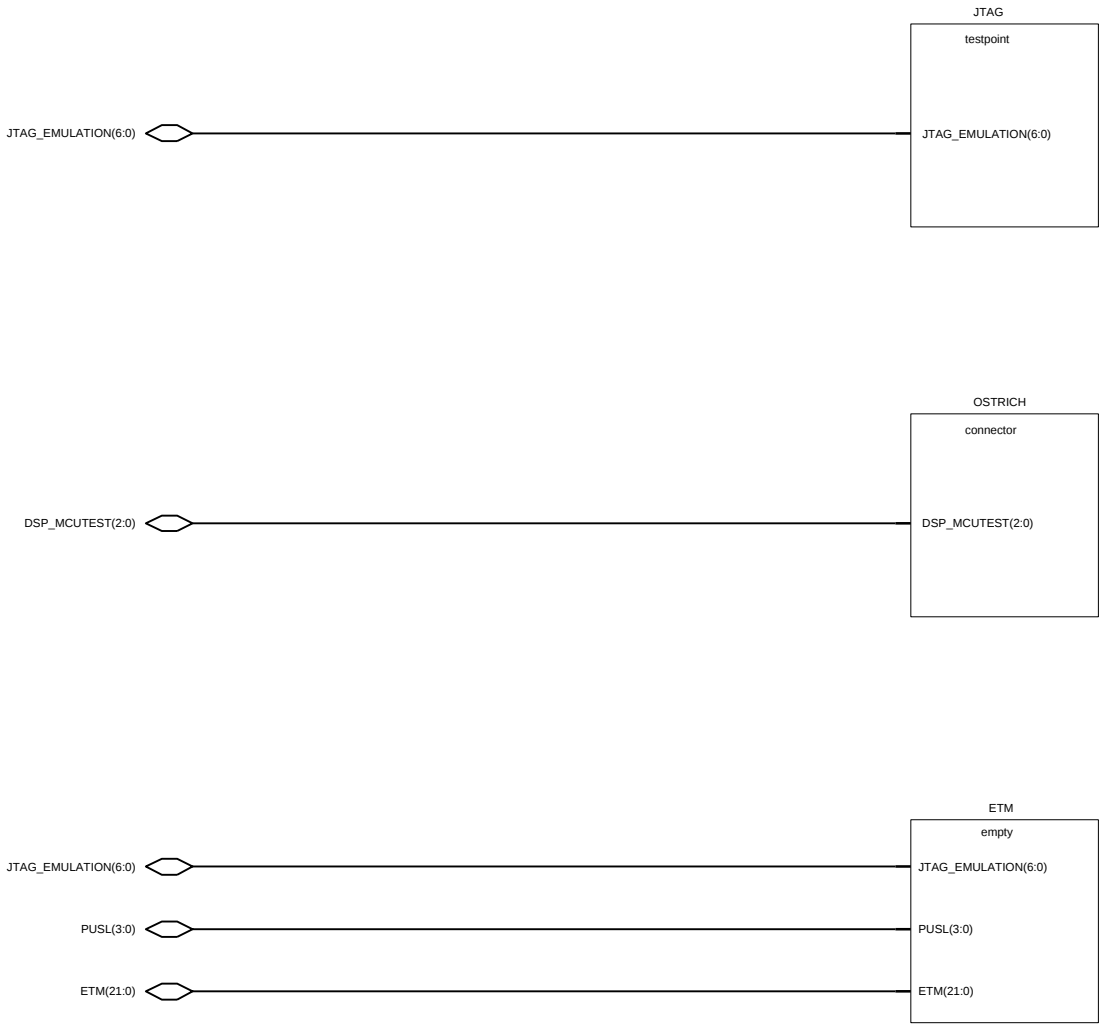
DCT4 Common Baseband (Top)



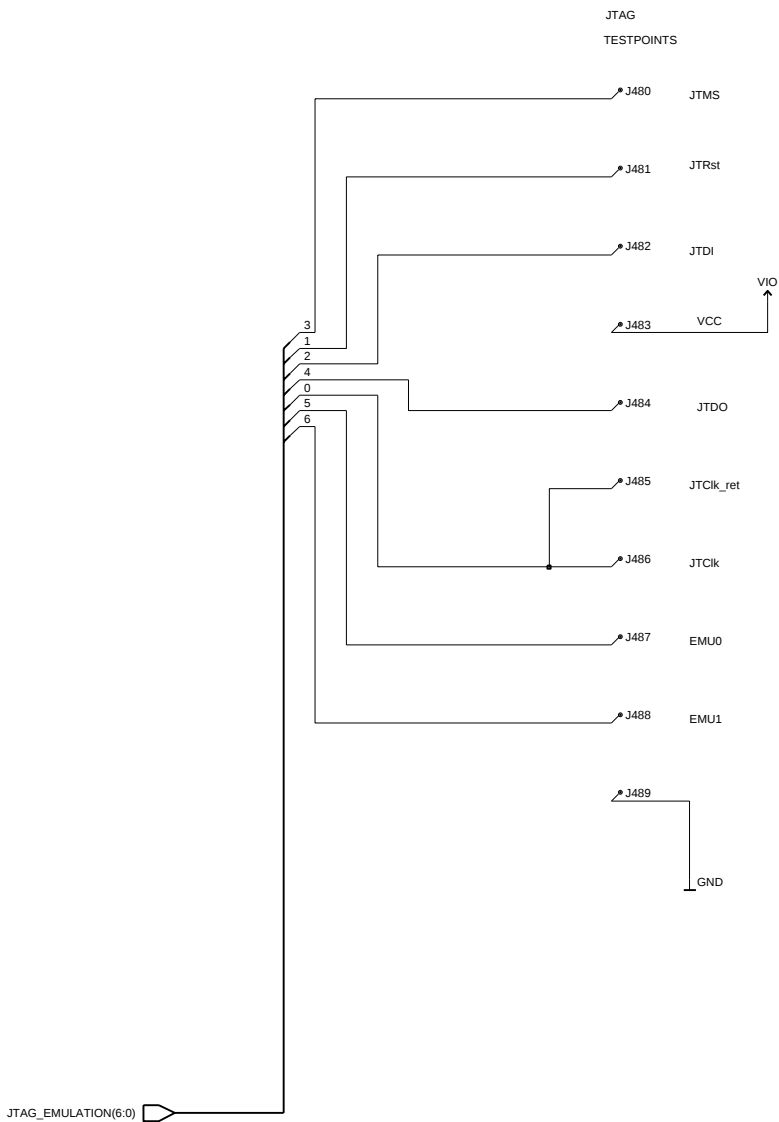
System connector



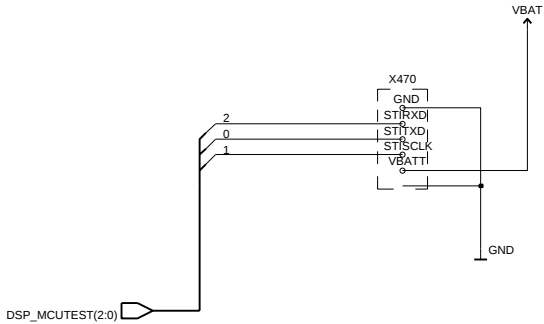
Test and emulator interface



Testpoints for JTAG emulator



Connector based Ostrich test interface

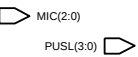


Empty ETM

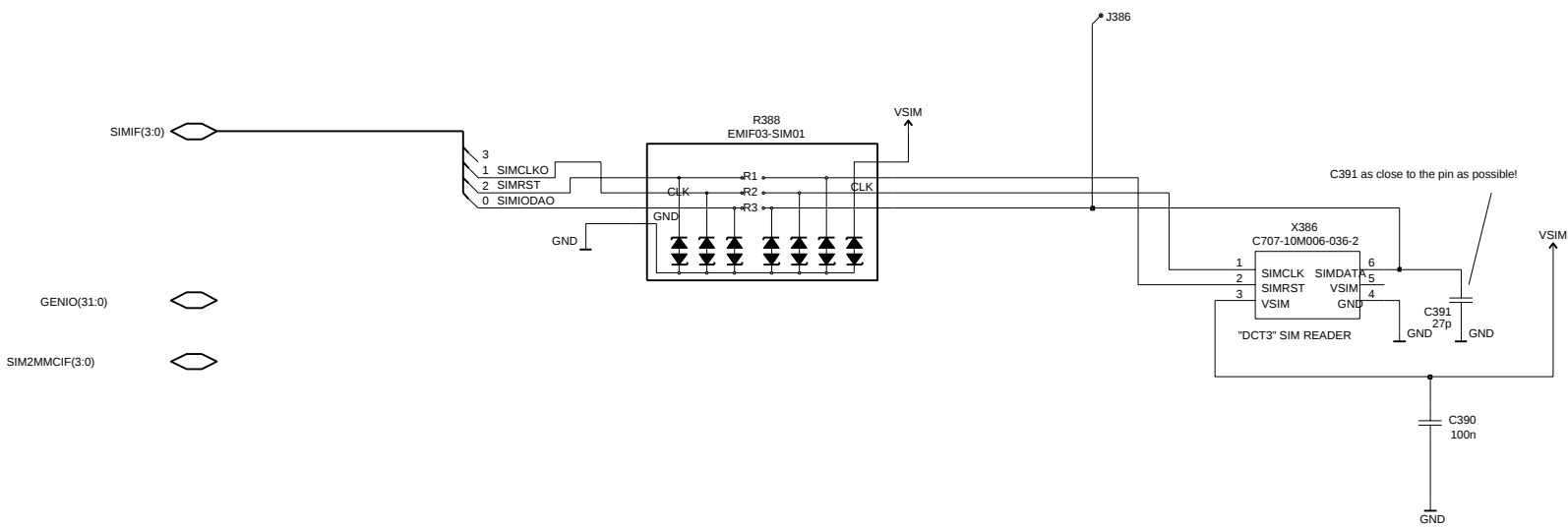
PUSL(3:0) 

JTAG\_EMULATION(6:0) 

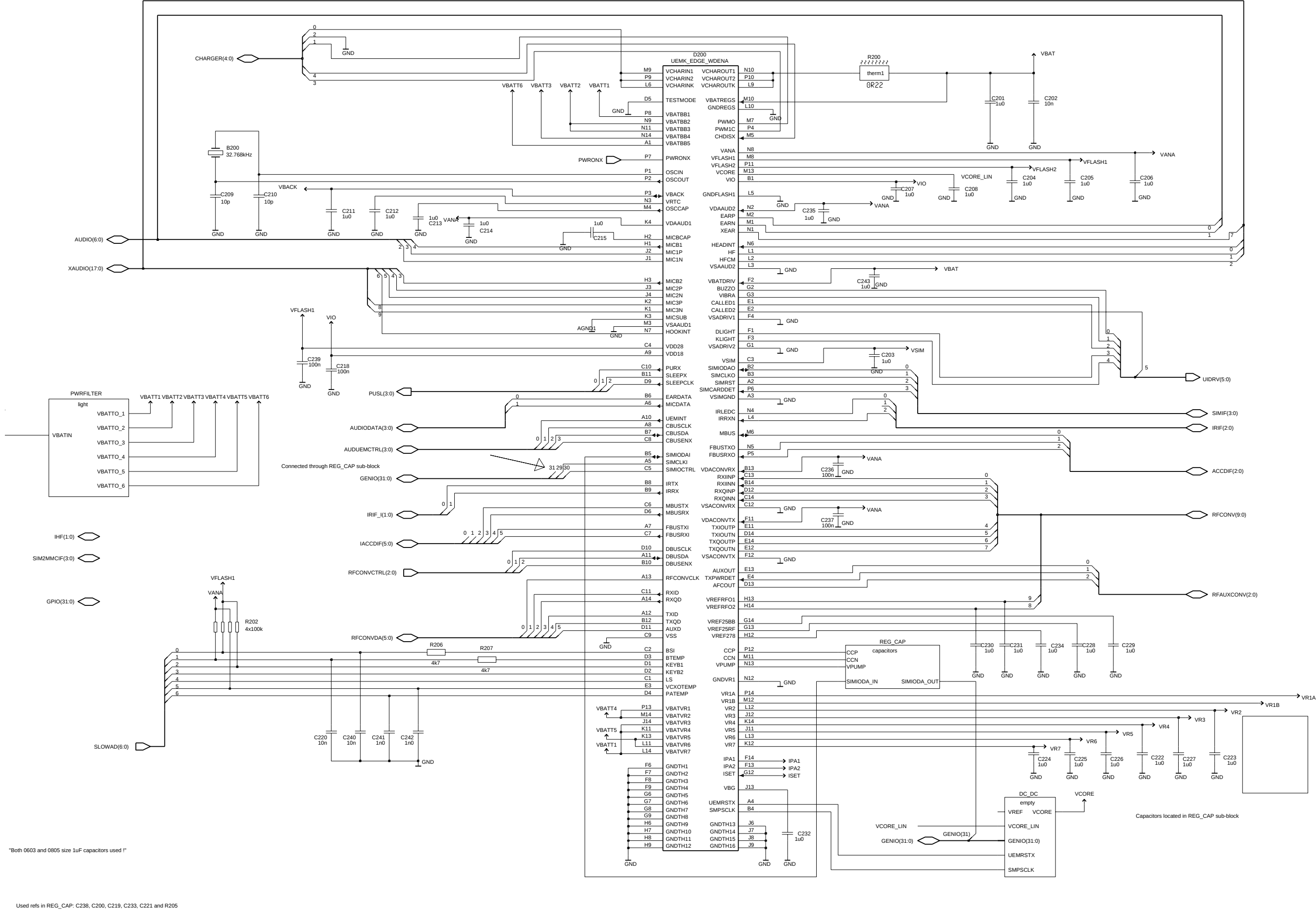
ETM(21:0) 



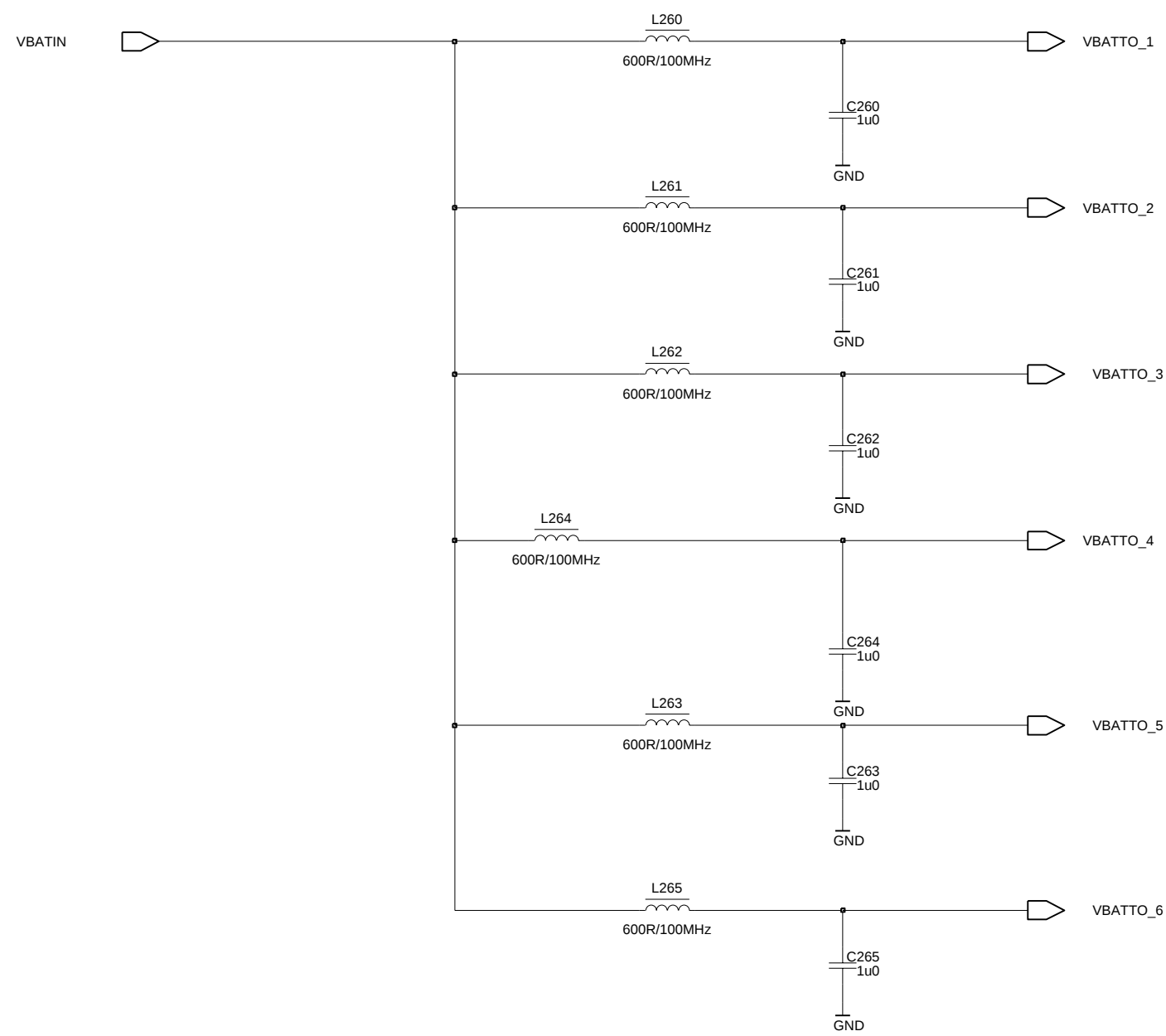
SIM reader



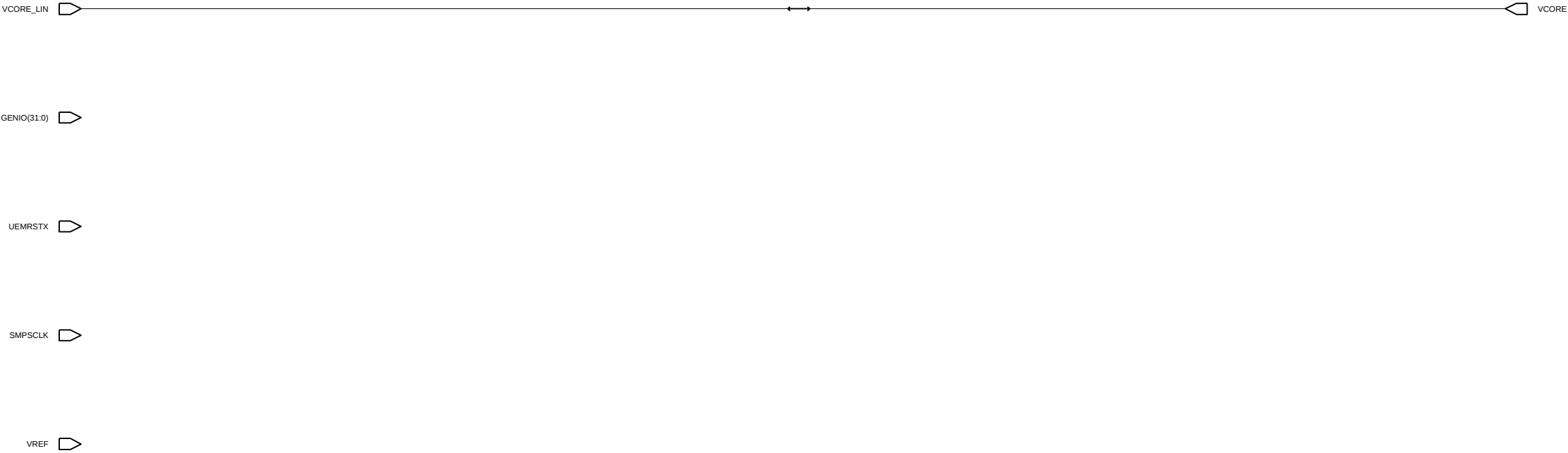
Discrete power management



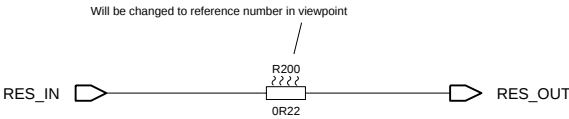
Light filtering



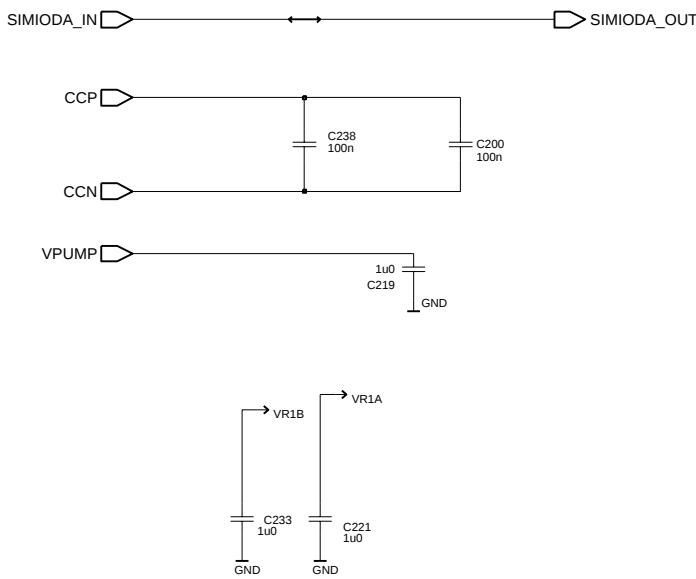
DC/DC converter



PWR resistor

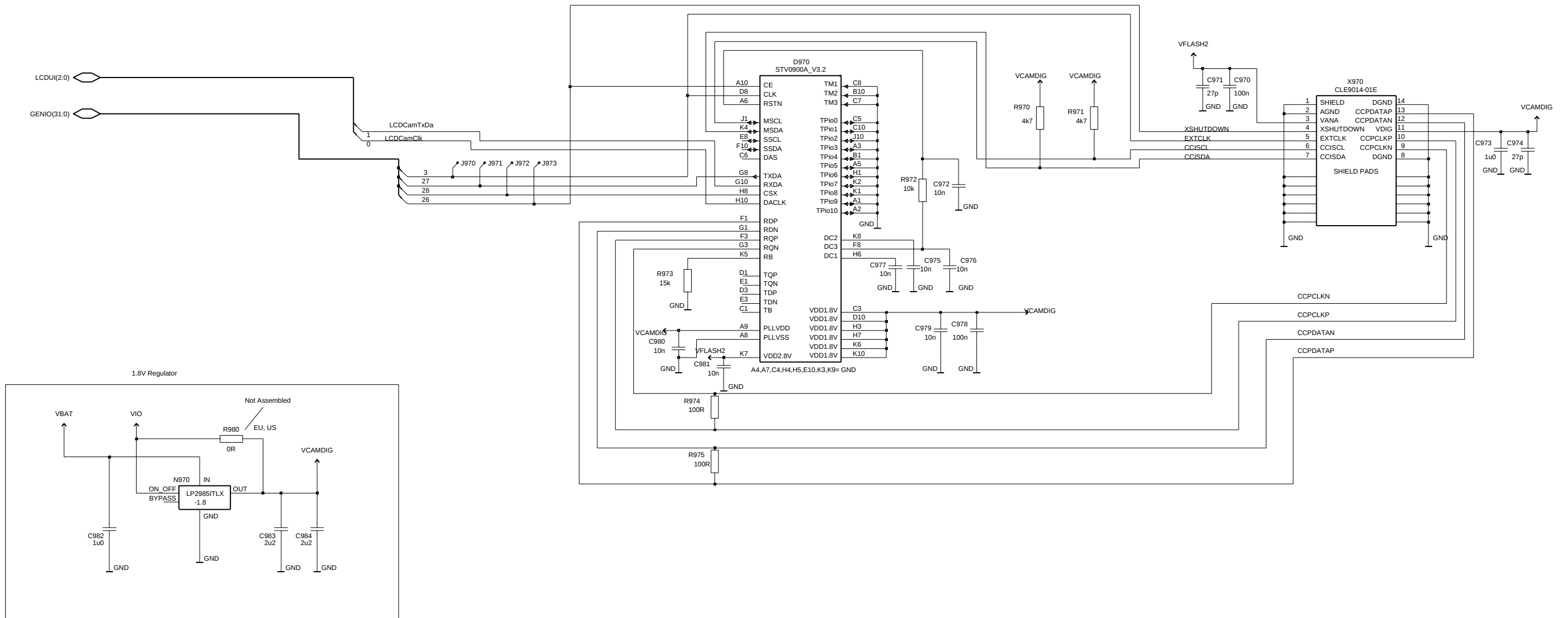
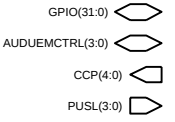


For old discrete power users

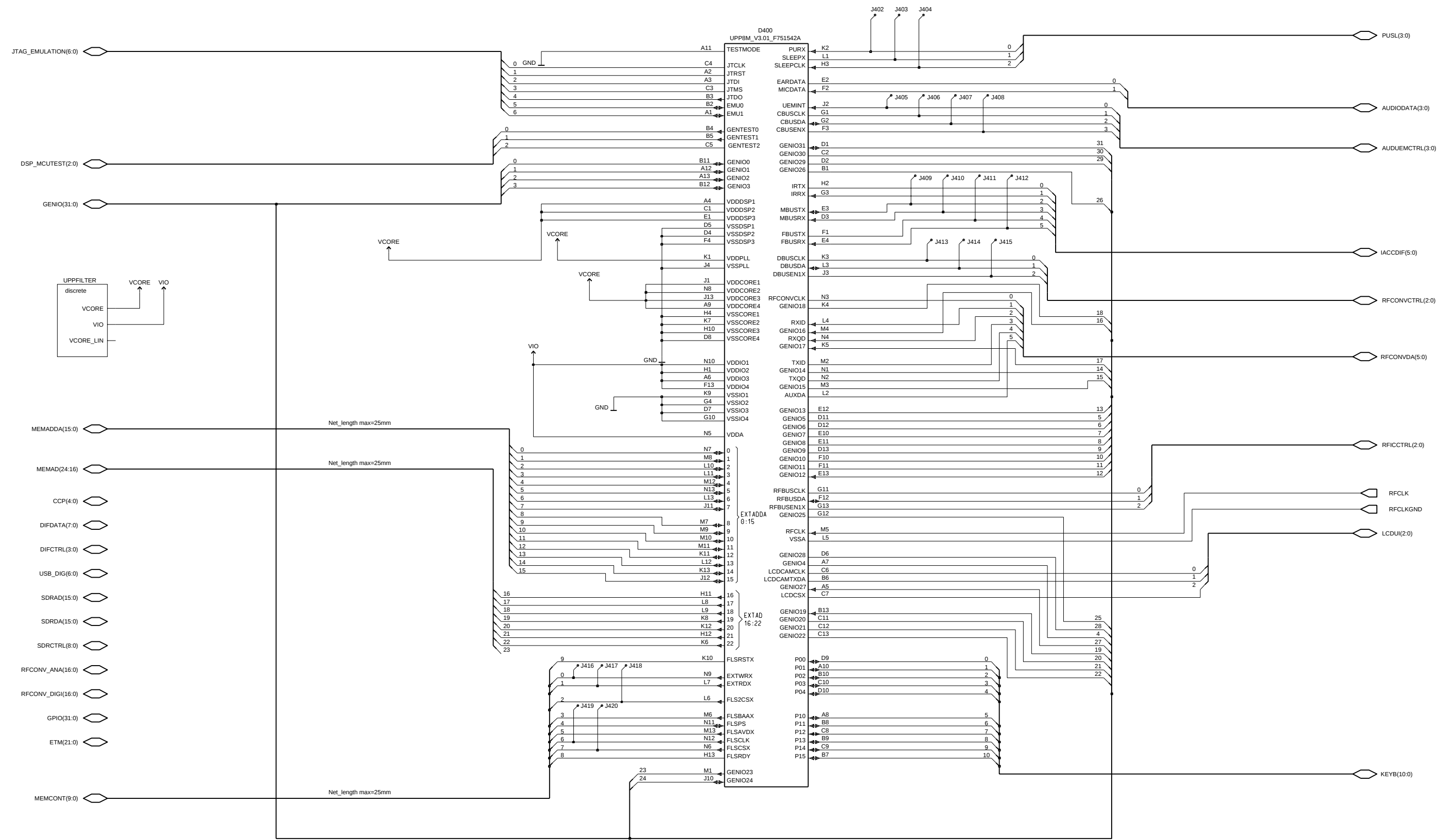


## Camera

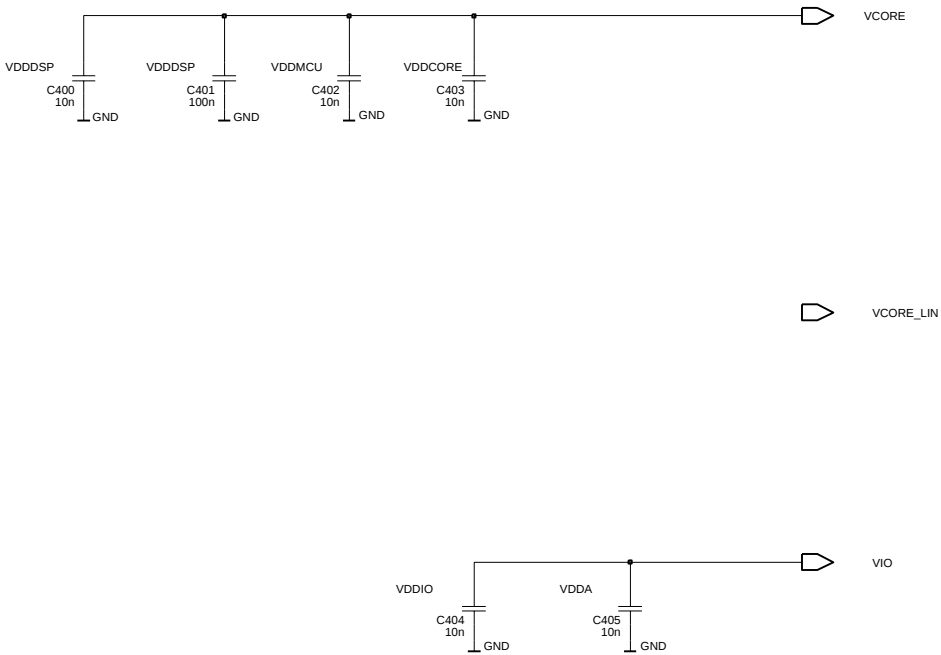
NOTE! New reference numbers 970-999, usage must be checked from RFI



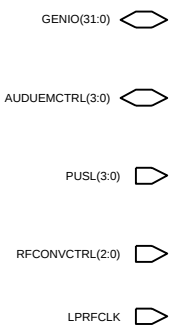
UPP 8M implementation



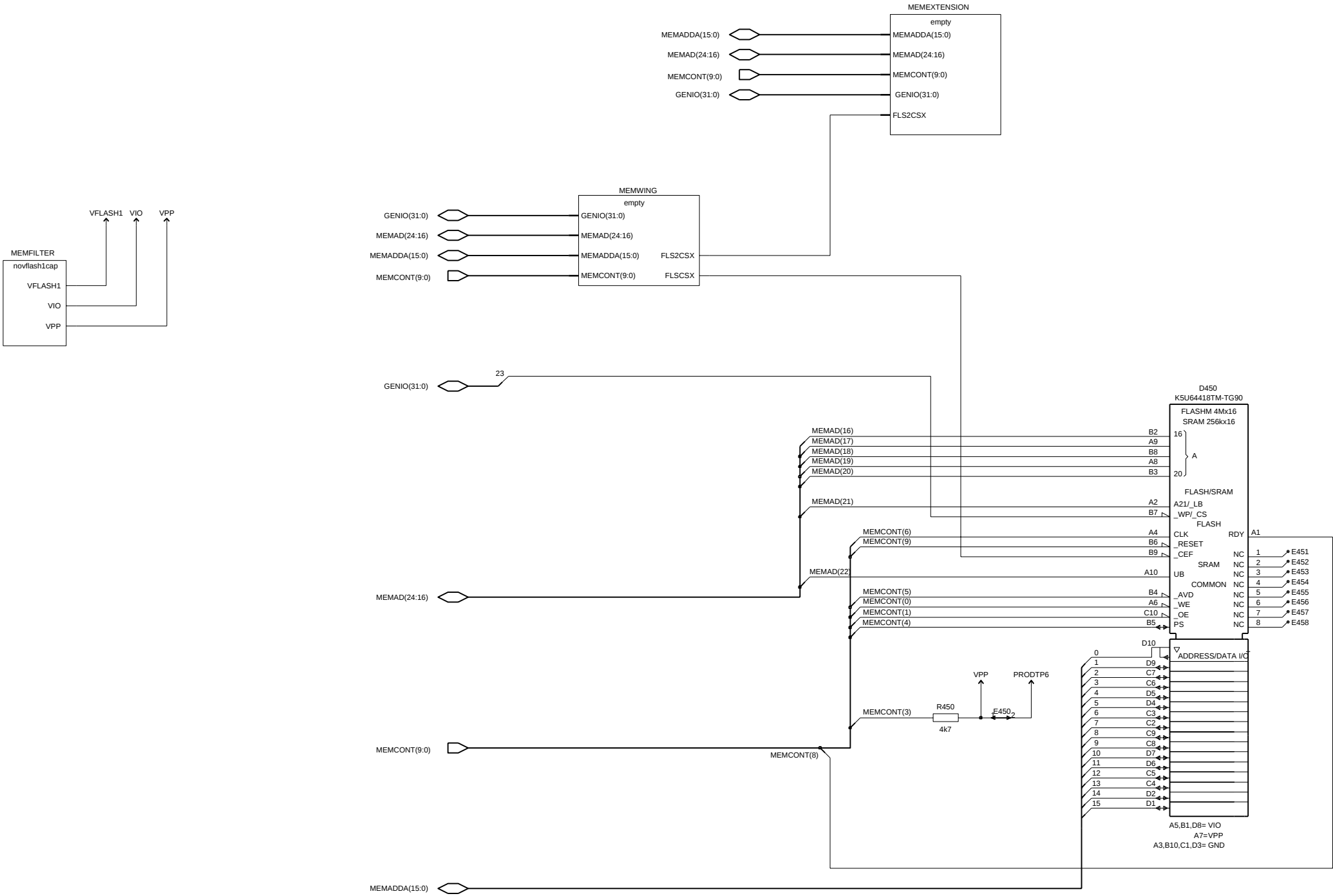
Discrete decoupling capacitors for UPP



No LPRF interface in this product



Combo memory 64+4Mbit



Memory extension

GENIO(31:0)



FLS2CSX



MEMAD(24:16)



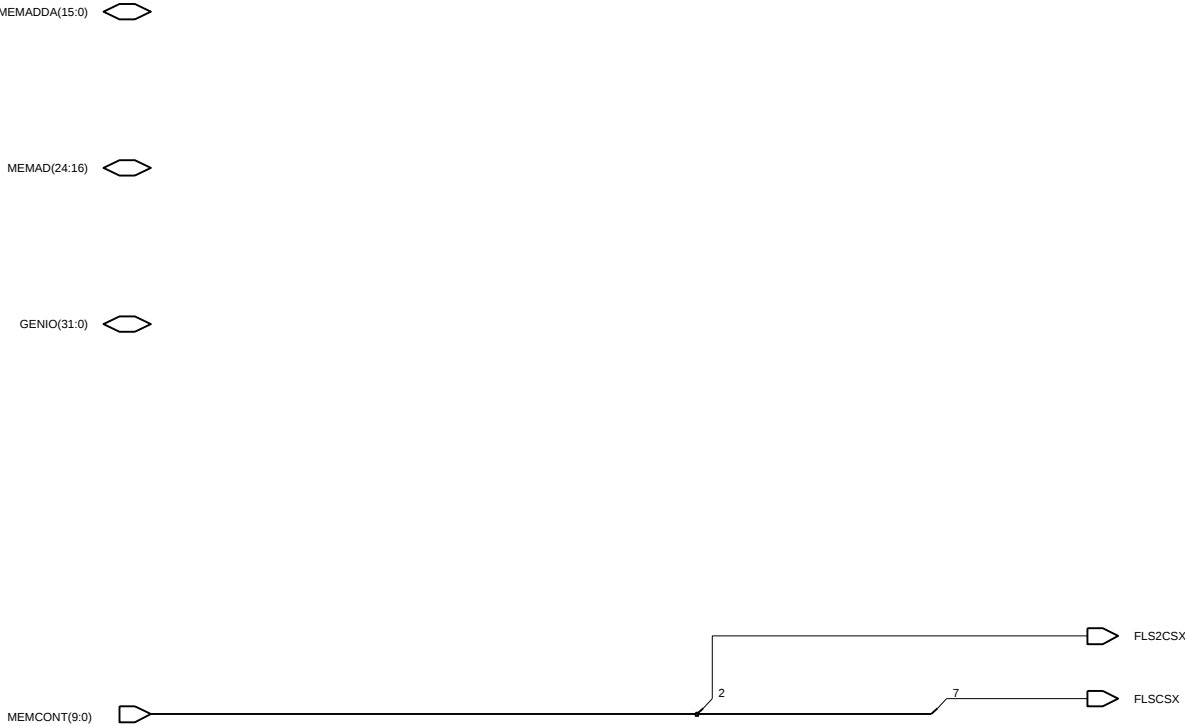
MEMCONT(9:0)



MEMADDA(15:0)



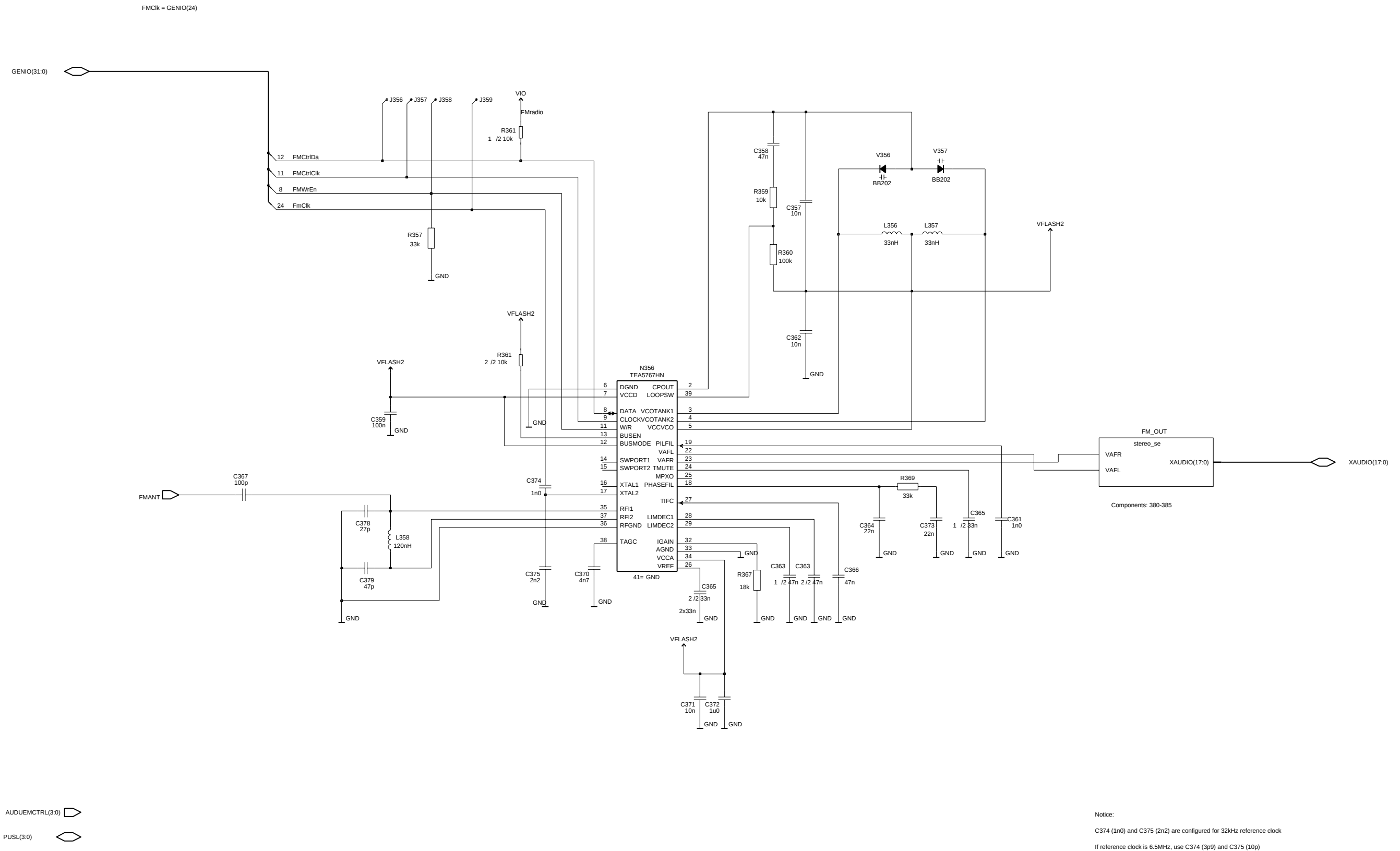
Empty wing sheet



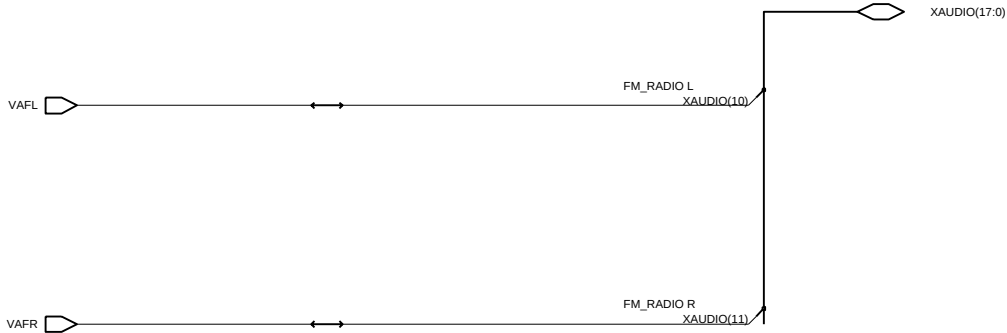
Discrete capacitors for memory without VFlash1



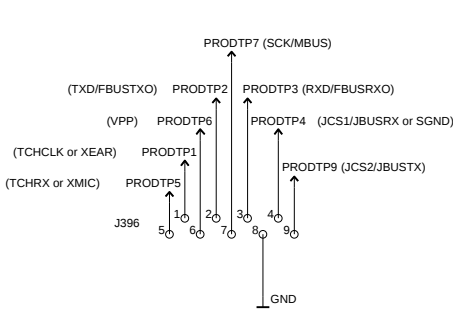
## FM radio unit



FM radio unit

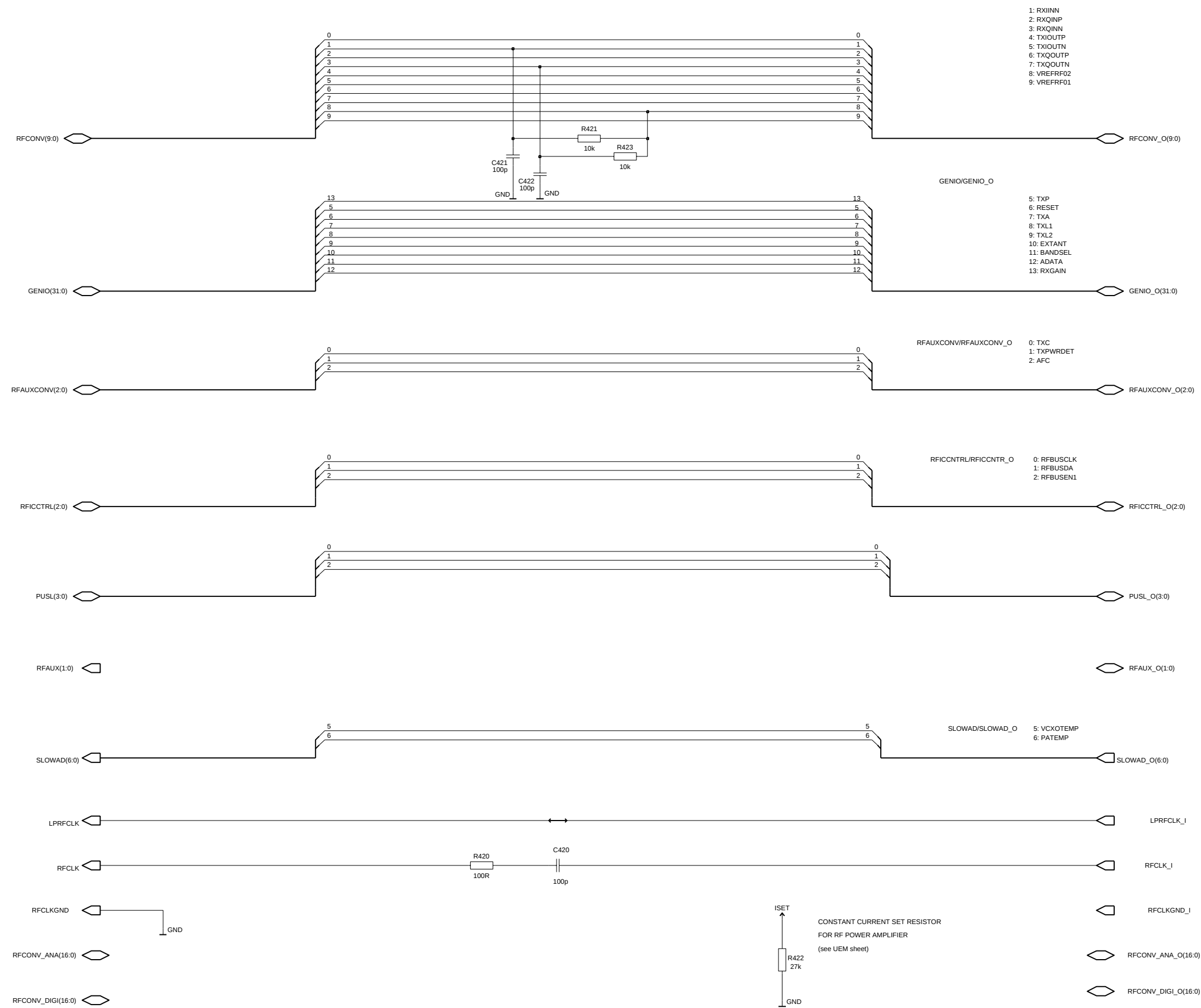


9 pin production test pattern



OUT

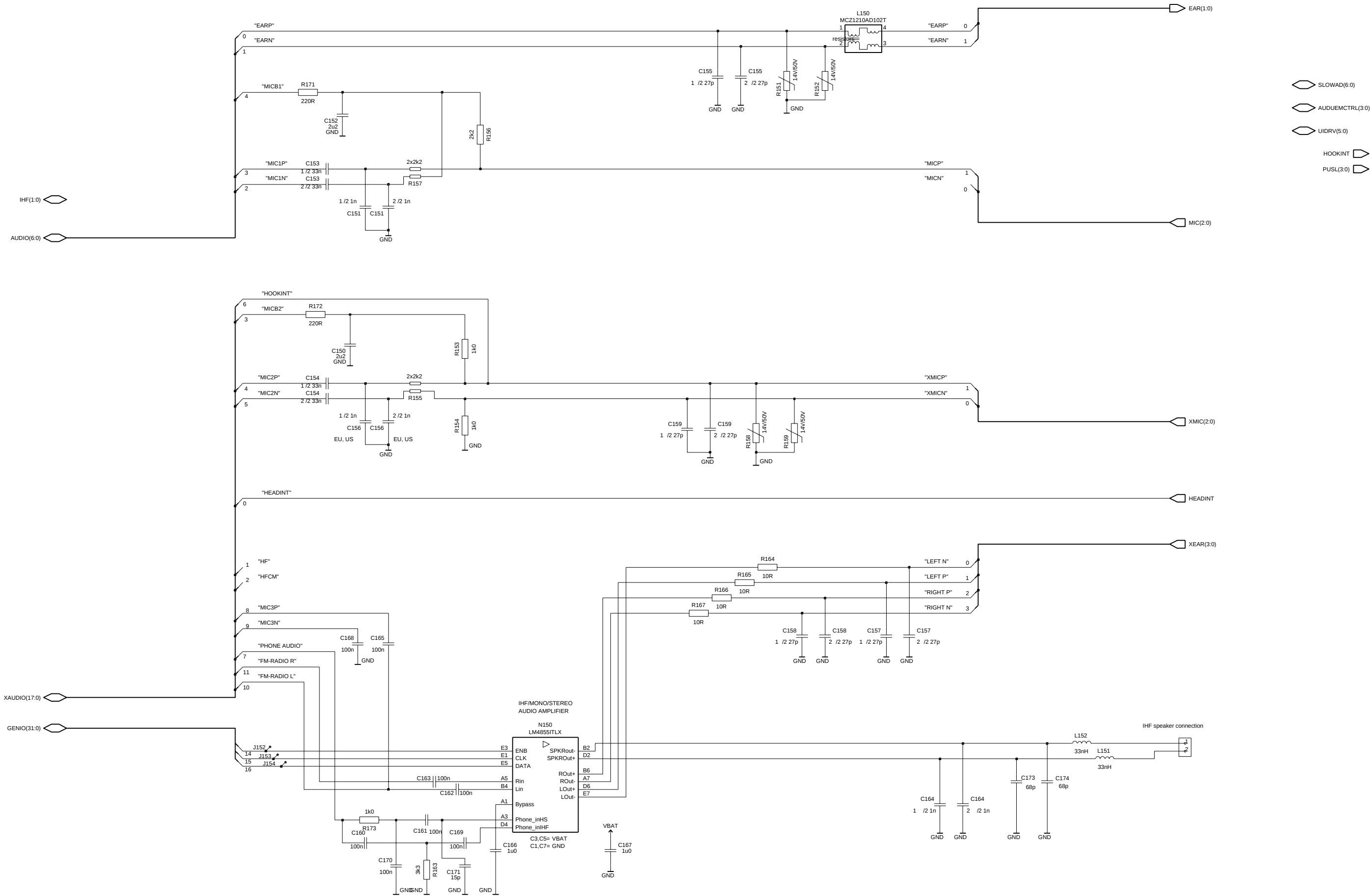
GSM RF-BB interface



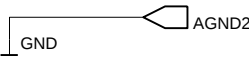
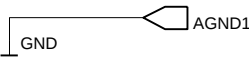
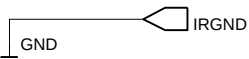
IPA1 AND IPA2 ARE USED IN RF, THE TOLERANCE OF R422 IS 1% (0402, 1430873)

Audio

Varistor arrays have reliability issues



MultiGND symbol bypass

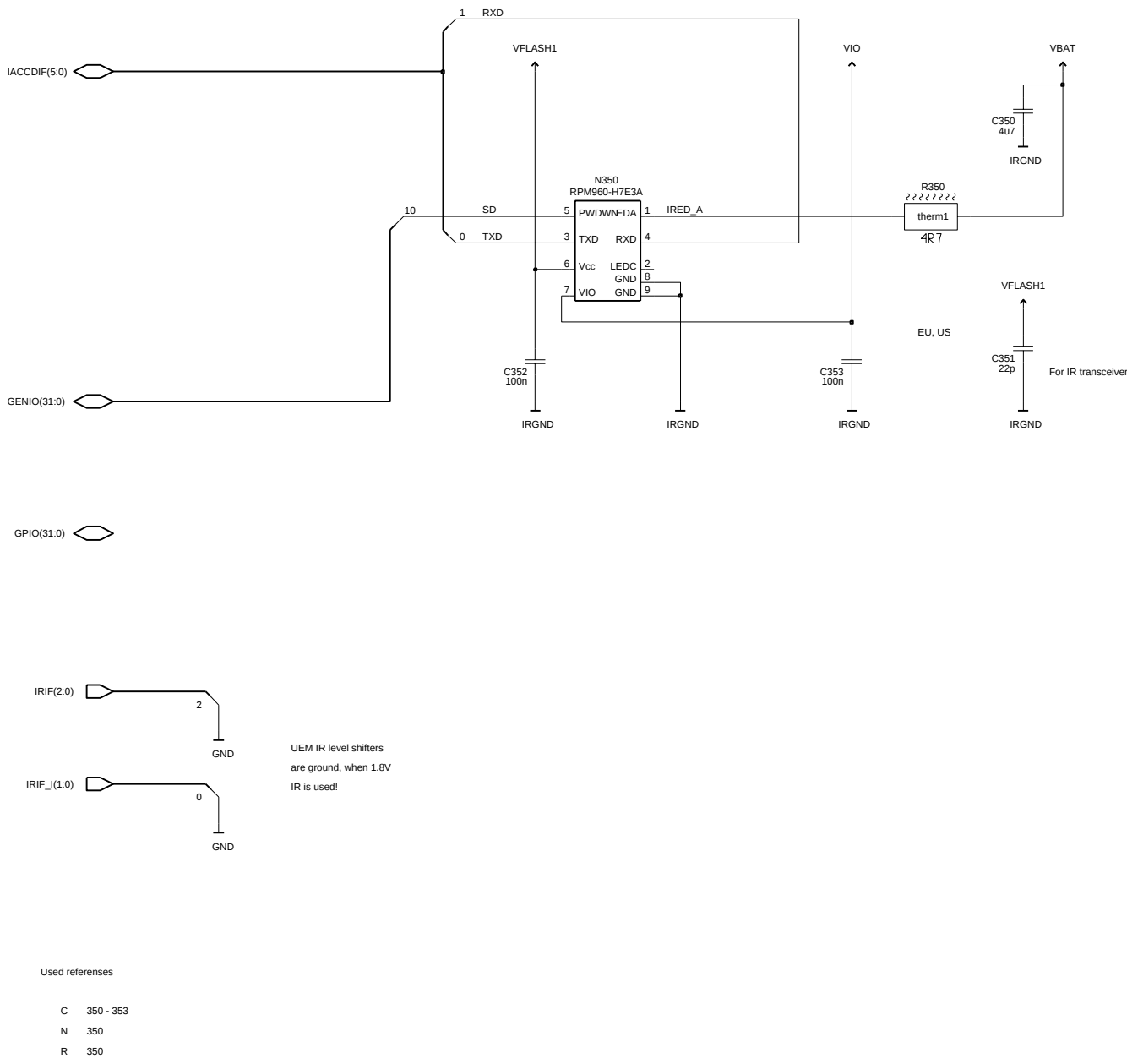


GPS empty sheet

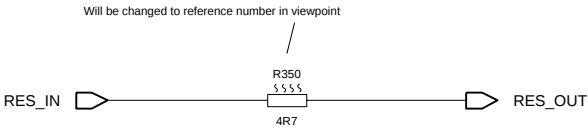
 PUSL(3:0)

 GENIQ(31:0)

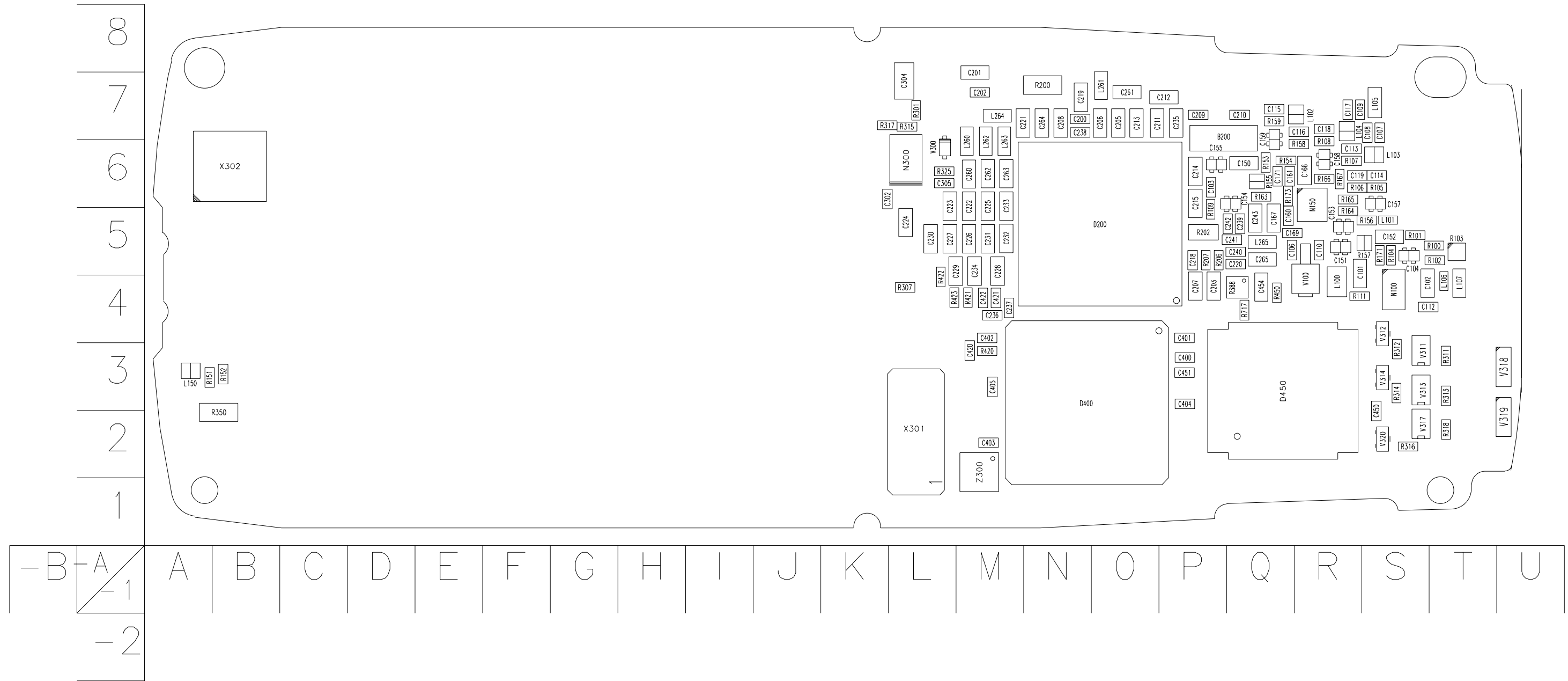
Rohm IR module 1.8V



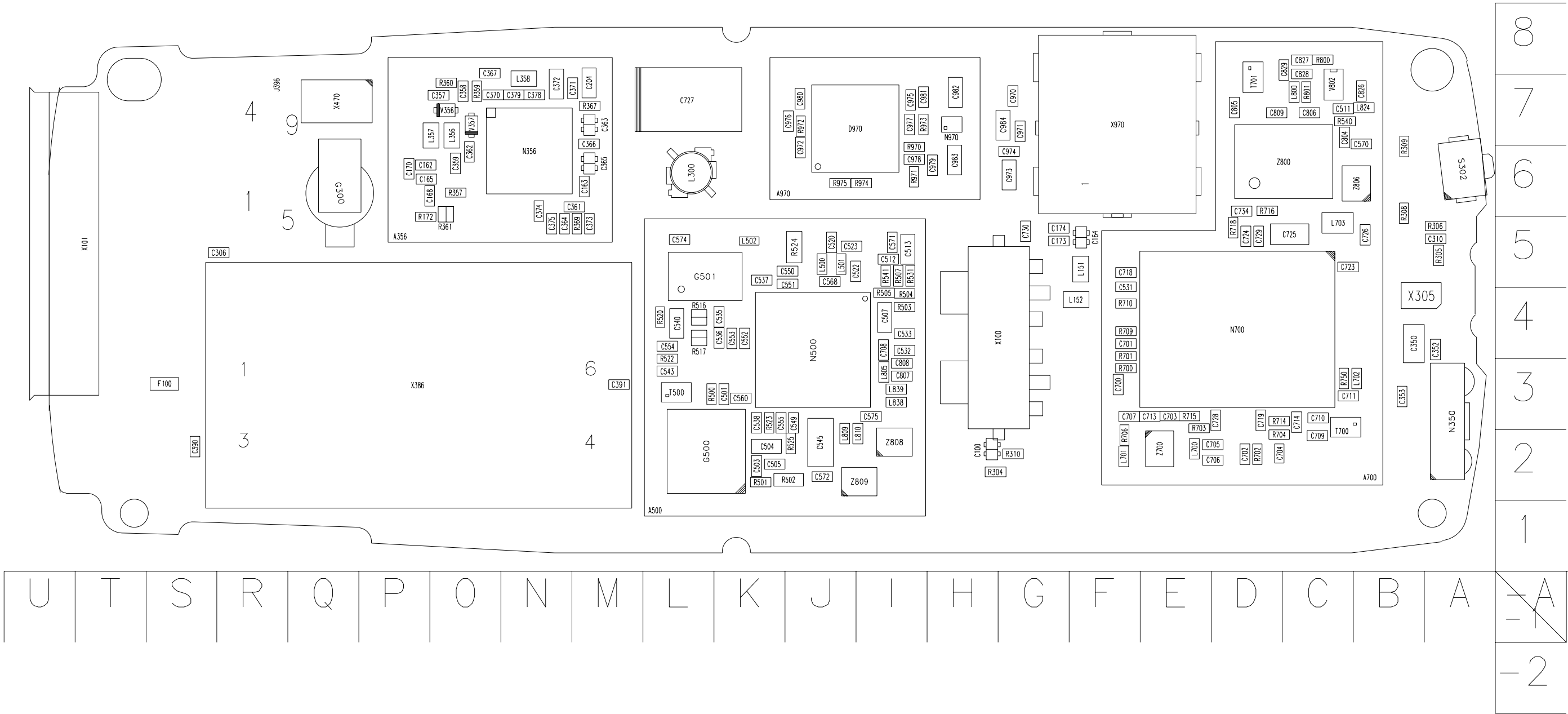
IR resistor



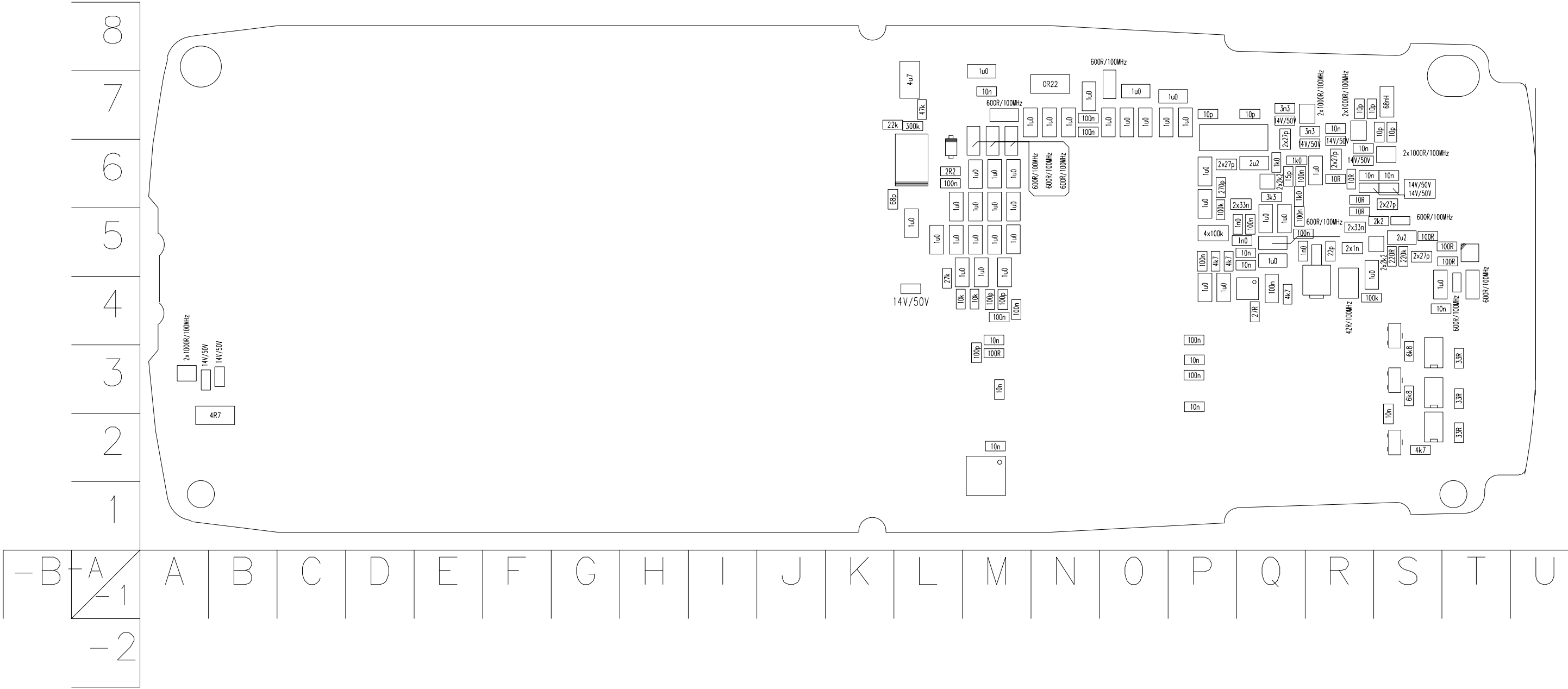
Layout



Layout



## Layout



## Layout

