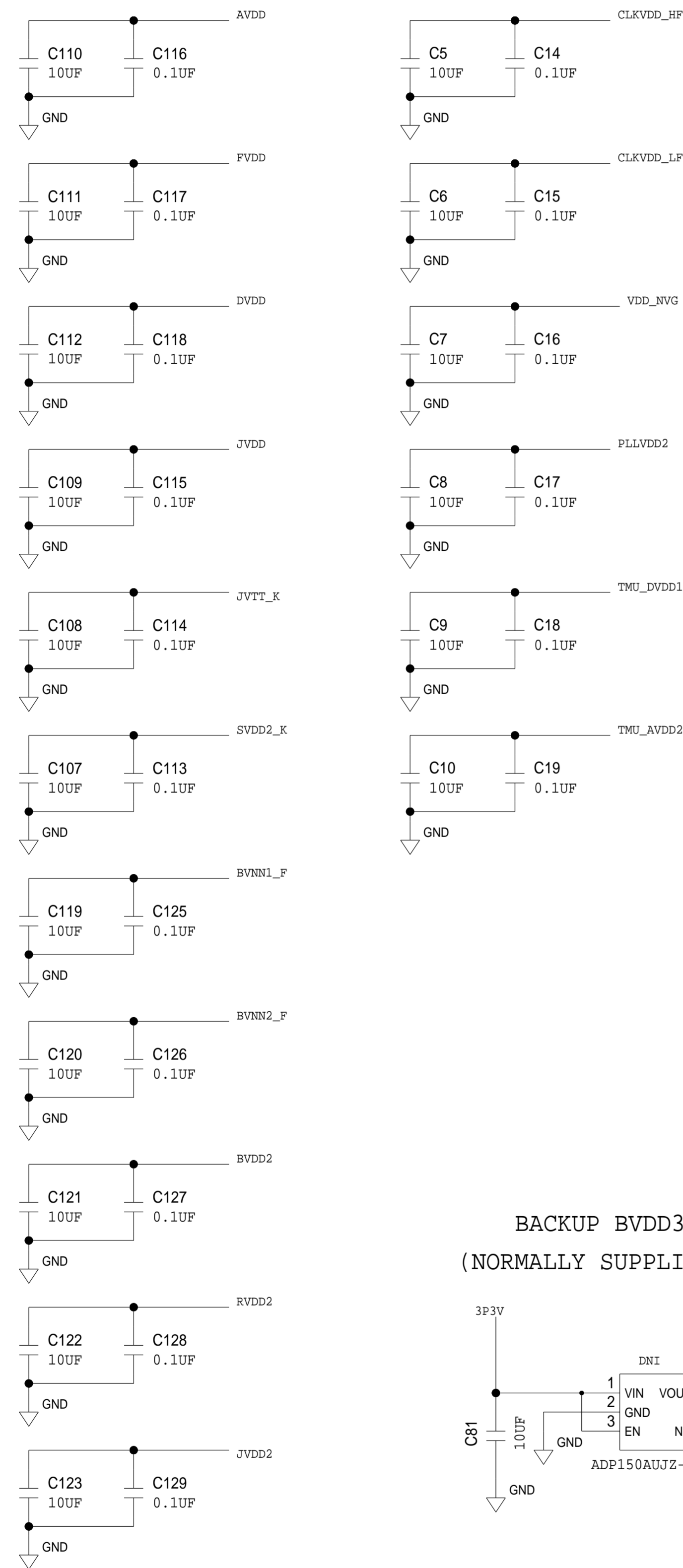


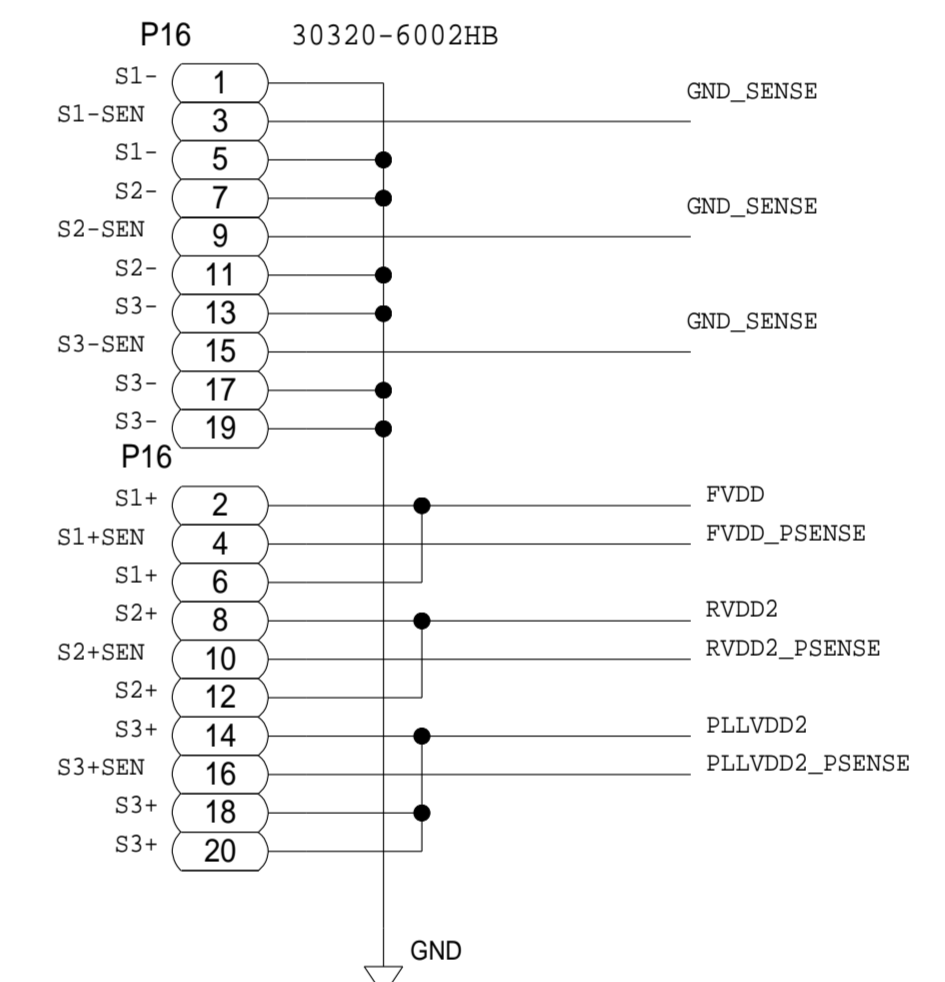
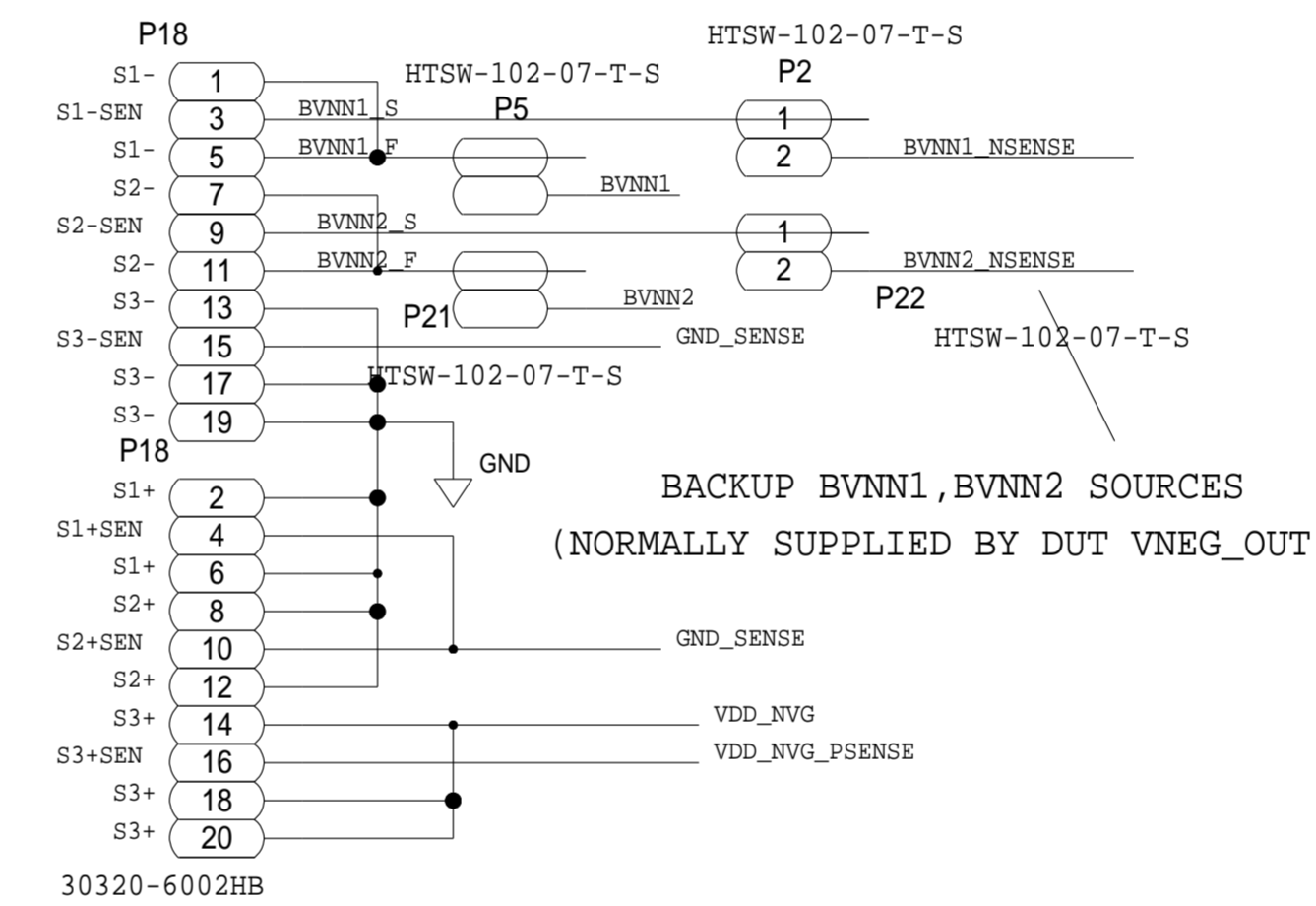
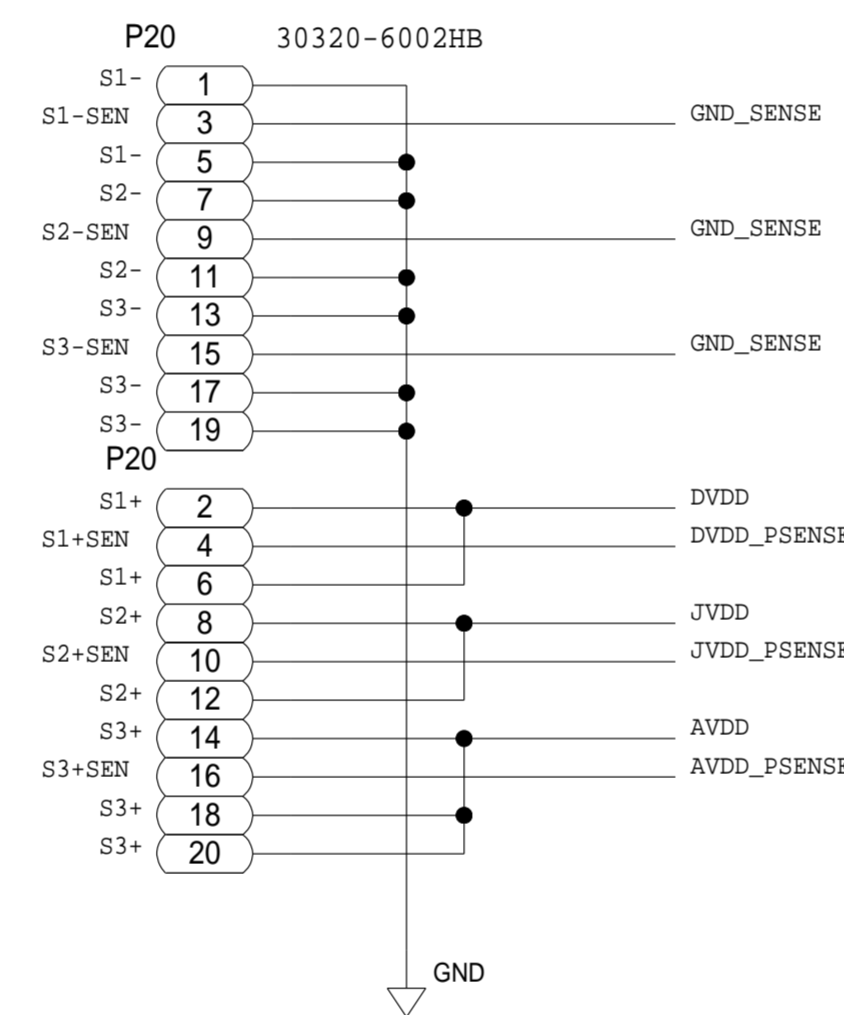
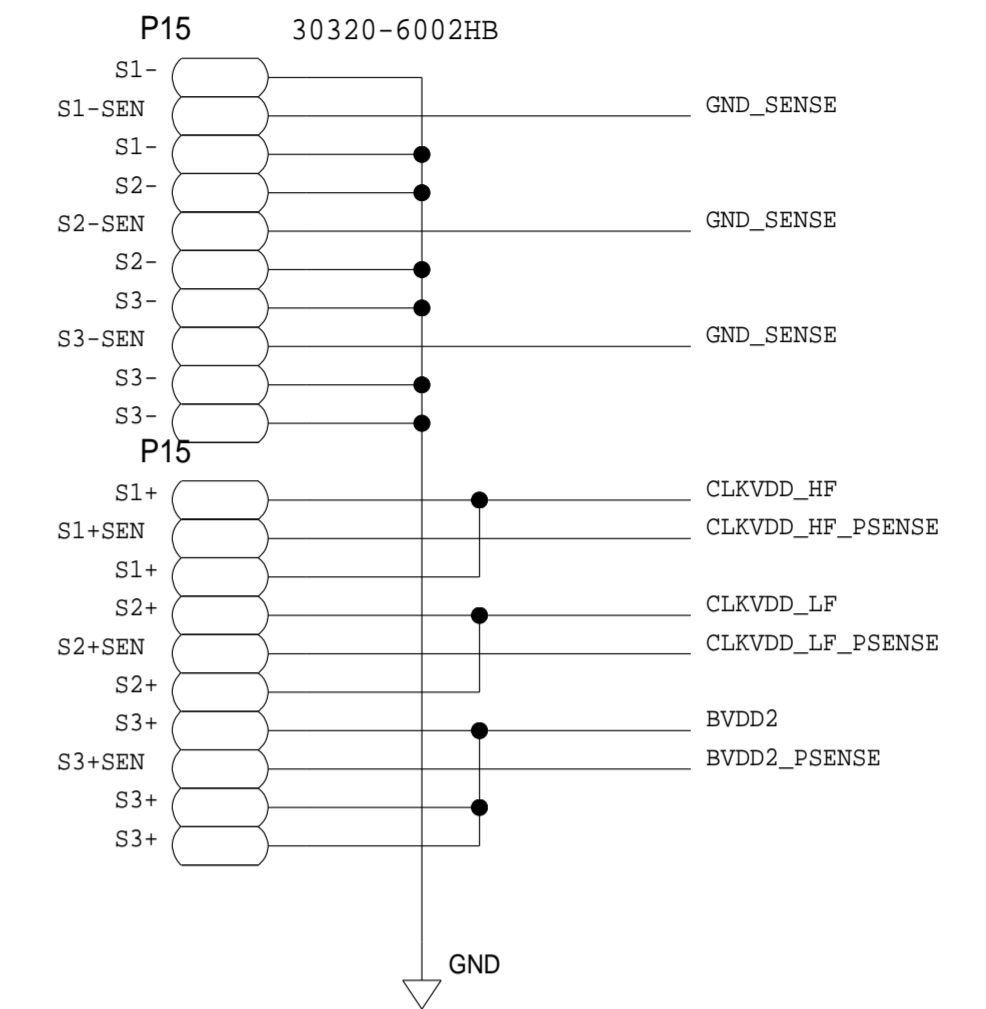
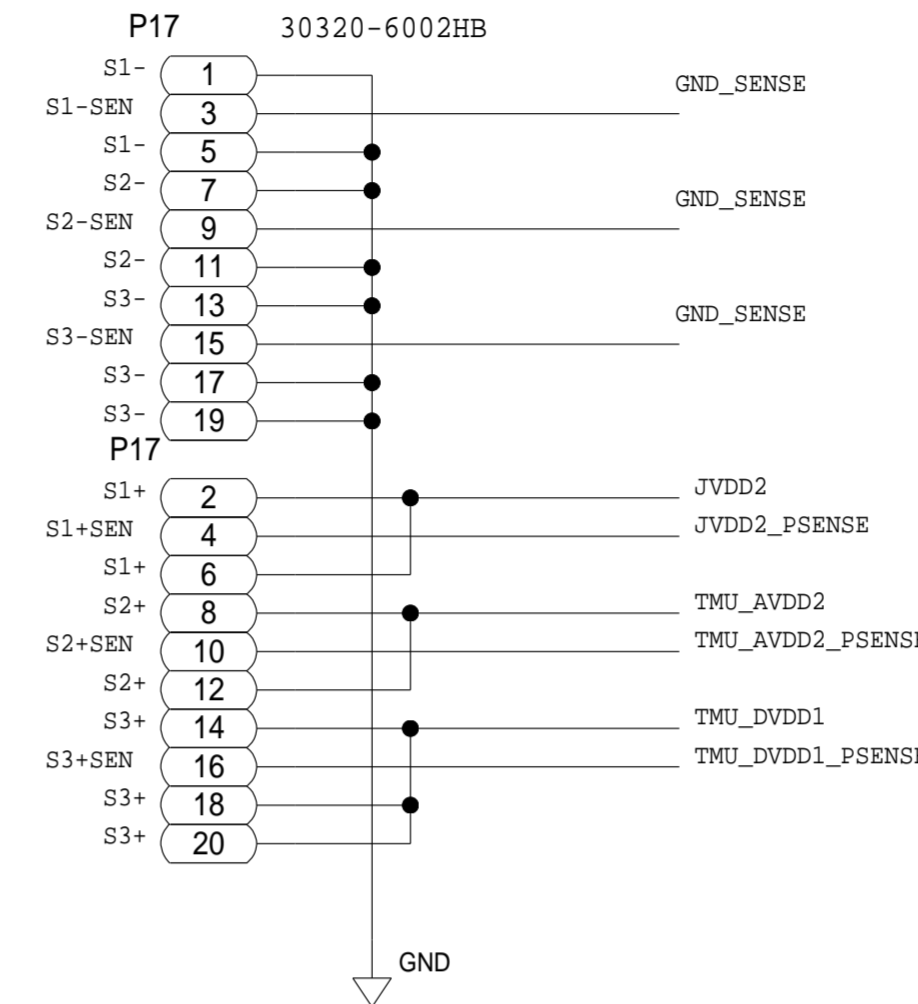
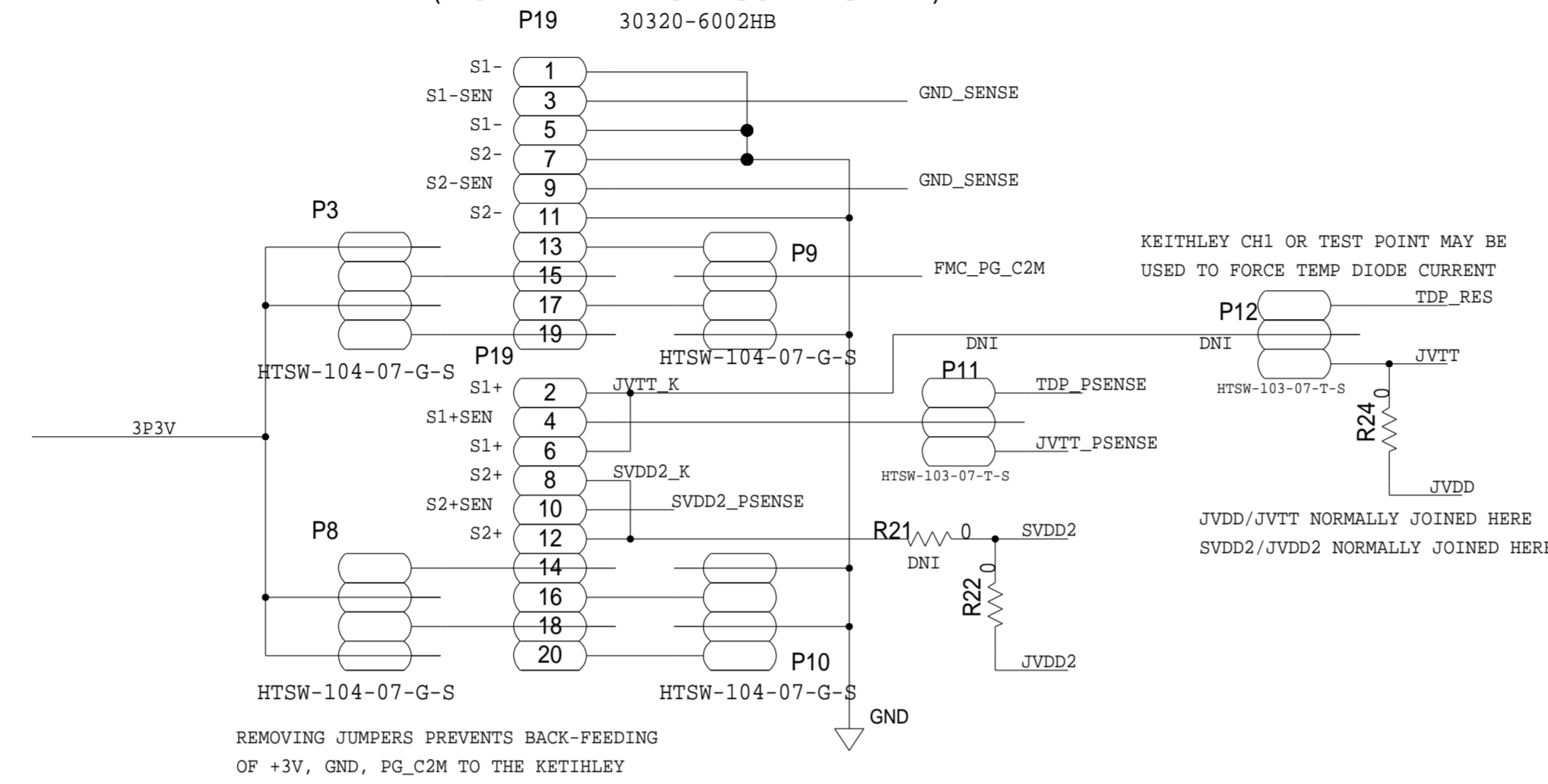
KEITHLEY POWER SUPPLY CONNECTIONS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

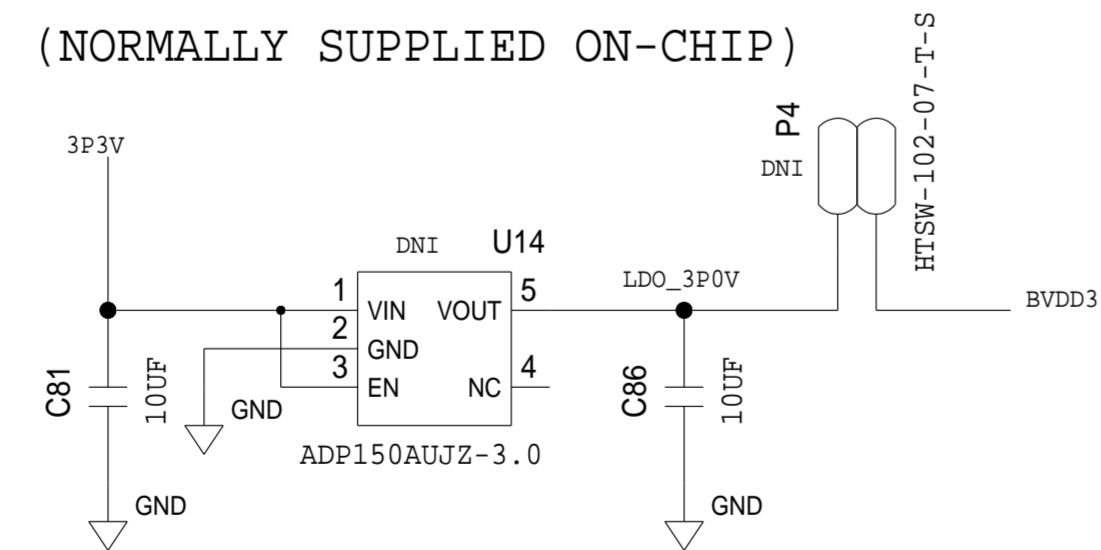
PLACE THESE NEAR THE POWER CONNECTORS



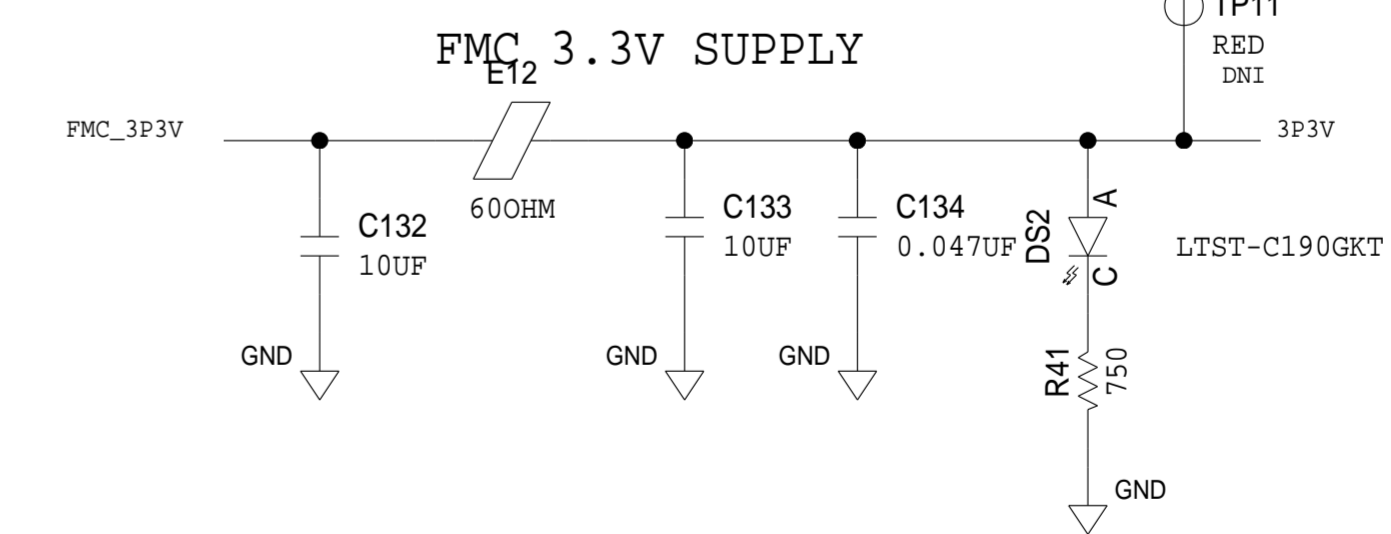
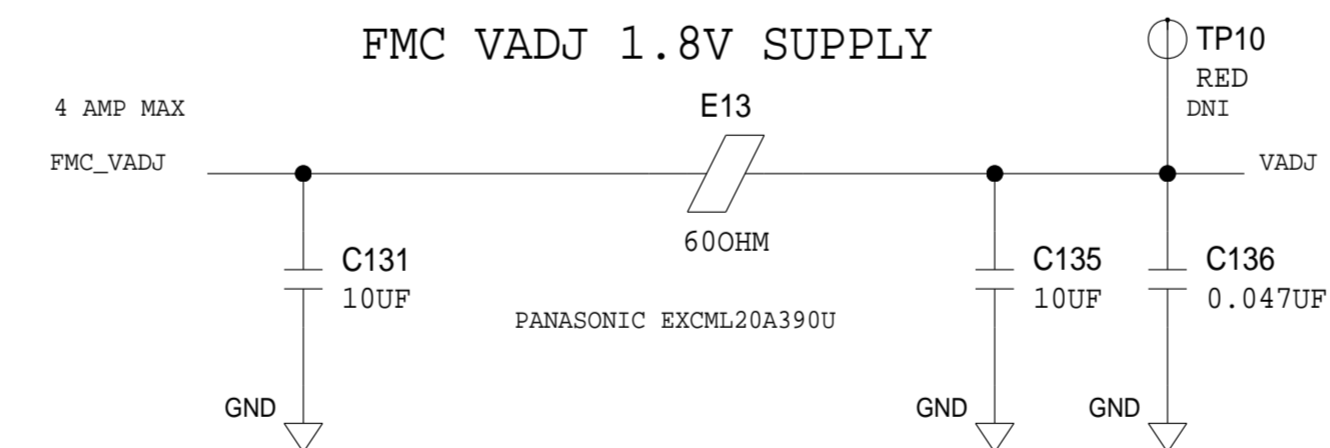
UTILITY CONNECTOR
FOR JVT, SVDD2, TDP/N CONTROL
AND POWERING PWR DAUGHTER BD
(NORMALLY NOT CONNECTED)



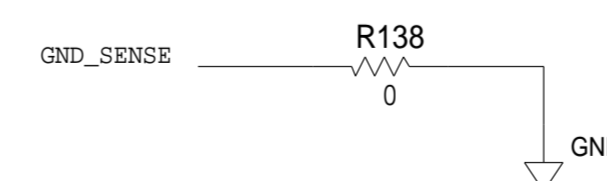
BACKUP BVDD3 SOURCE
(NORMALLY SUPPLIED ON-CHIP)



FILTER NETWORKS NEAR FMC CONNECTOR



GND SENSE VIA NEAR OR UNDER DUT



NOTE: KEITHLEY 2230 CHAN 3 IS 5A
BUT CHAN 1 & 2 ARE 1.5A

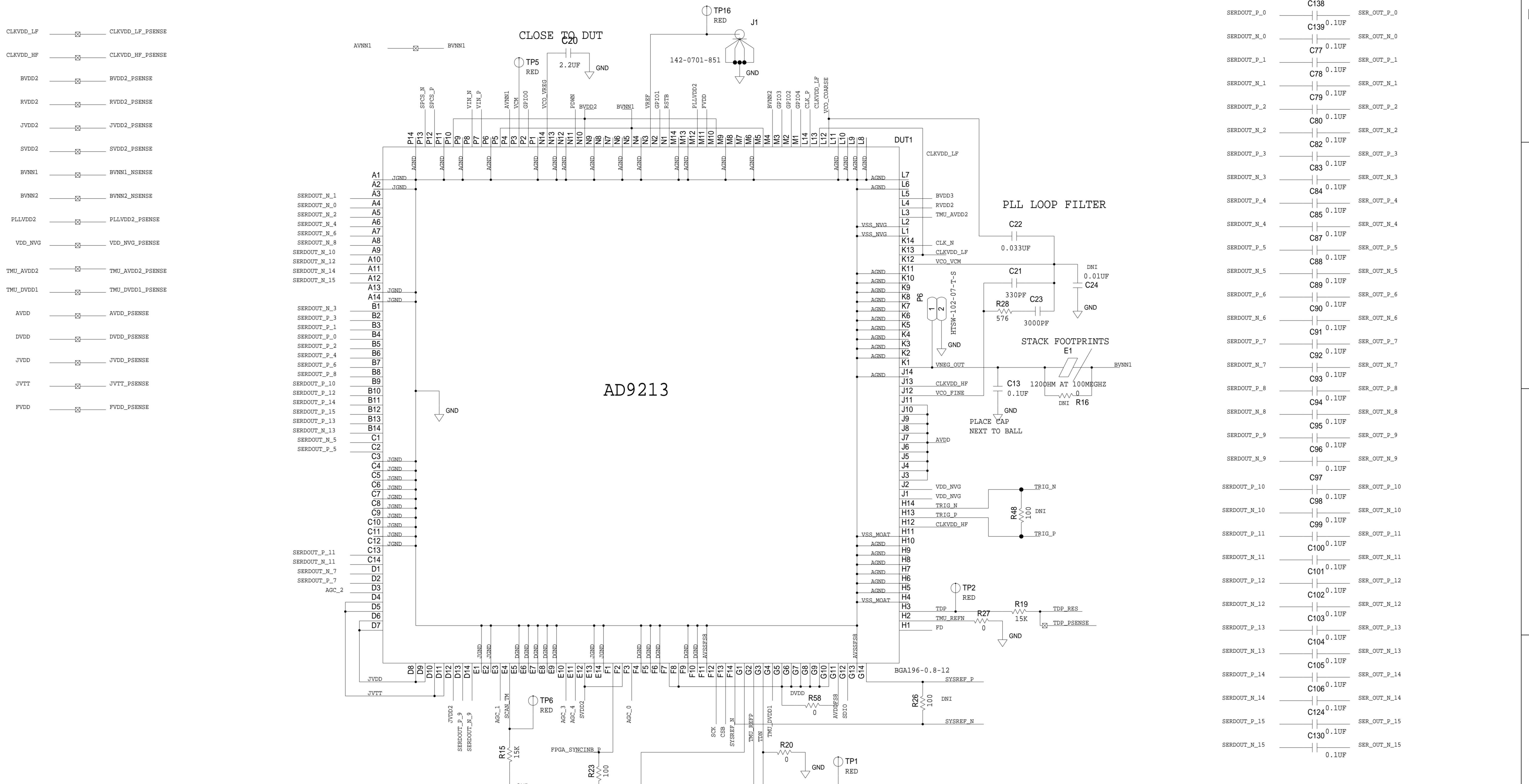
SCHEMATIC			
ANALOG DEVICES		HW TYPE : Characterisation Product(s) : AD9213	
DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. 02_044860	REV C	
PTD ENGINEER S.GIBBS	SIZE D	SCALE 1:1	SHEET 2 OF 8

COMBINED PHOENIX SOCKET AND SOLDER-DOWN FOOTPRINT NEEDS SOLDERMASK UNDER SOCKET

PLACE SENSE LINE VIAS AS
CLOSE TO DUT AS POSSIBLE

SERDOUT 100 OHM DIFF PAIRS
NEAR FMC+ CONNECTOR

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



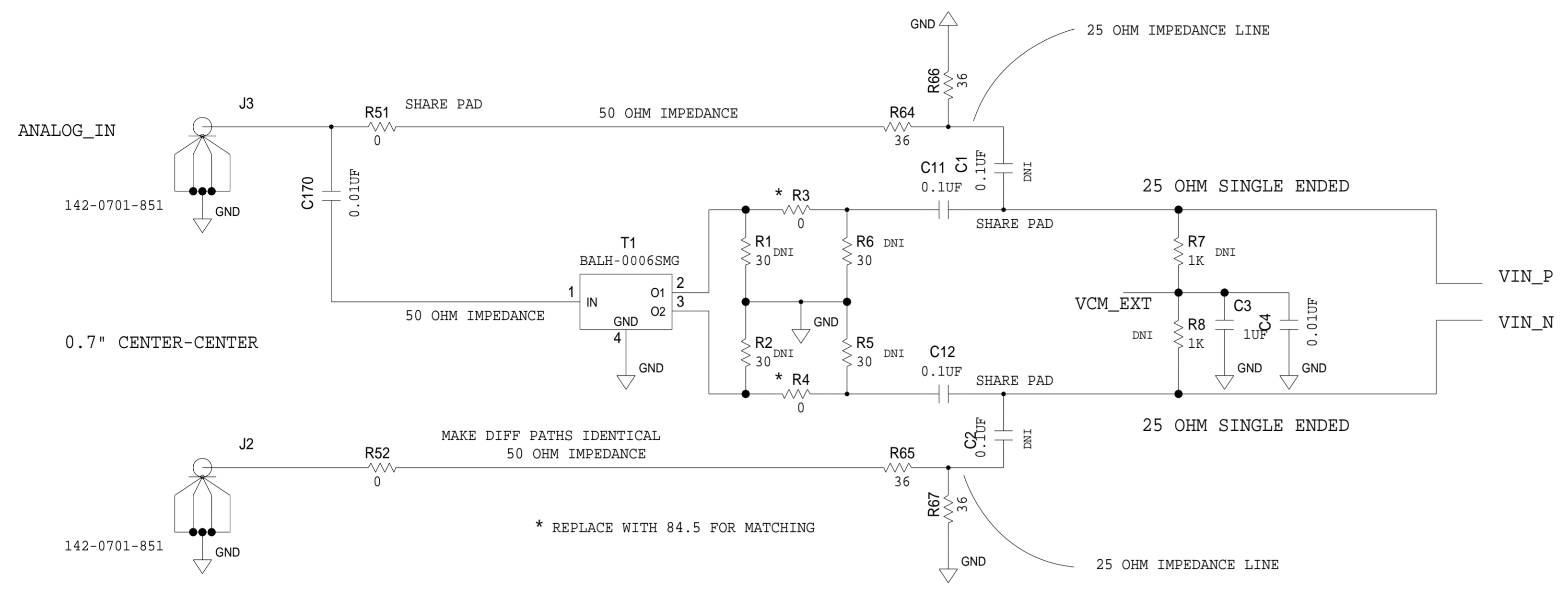
SCHEMATIC			
HW TYPE : Characterisation		Product(s) : AD9213	
DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. 02_044860	REV C	
PTD ENGINEER S.GIBBS	SIZE D	SCALE 1:1	SHEET 3 OF 8

ANALOG DEVICES

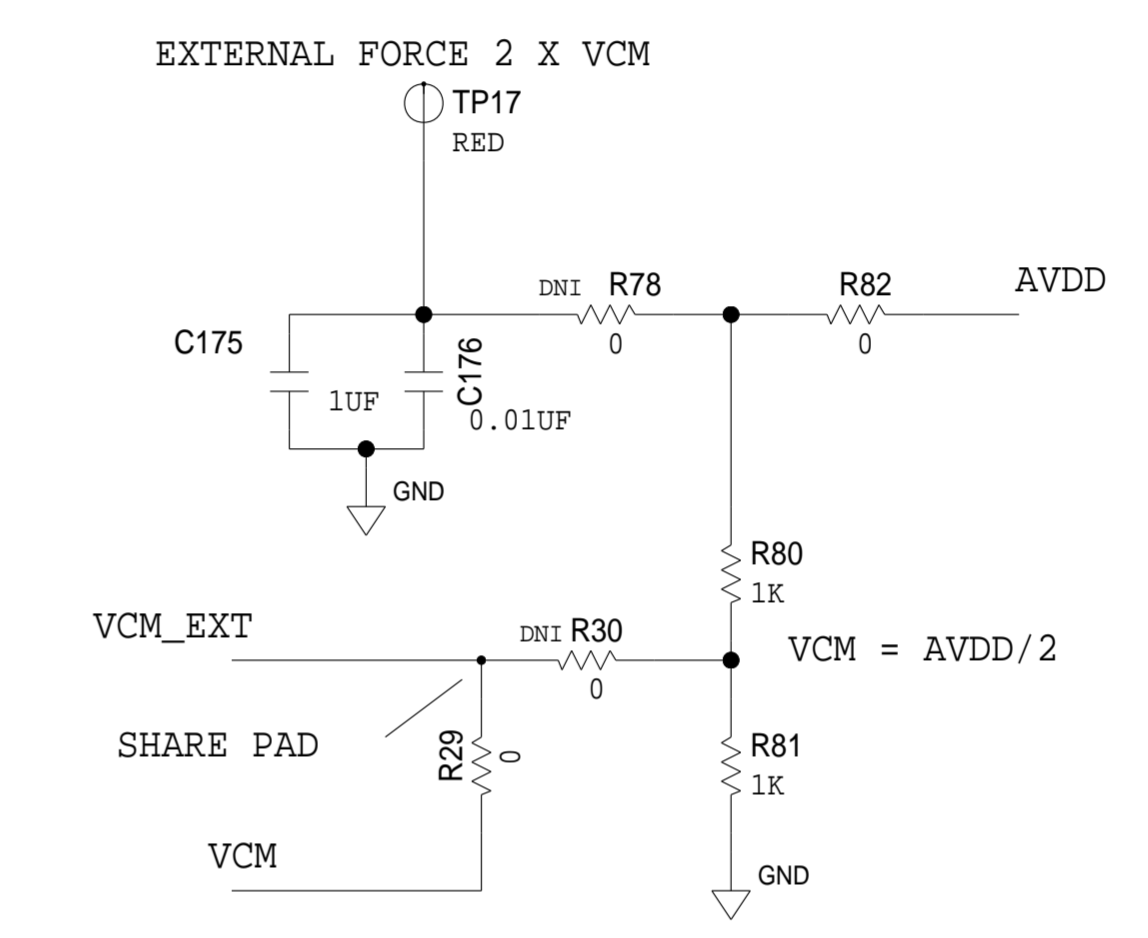
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

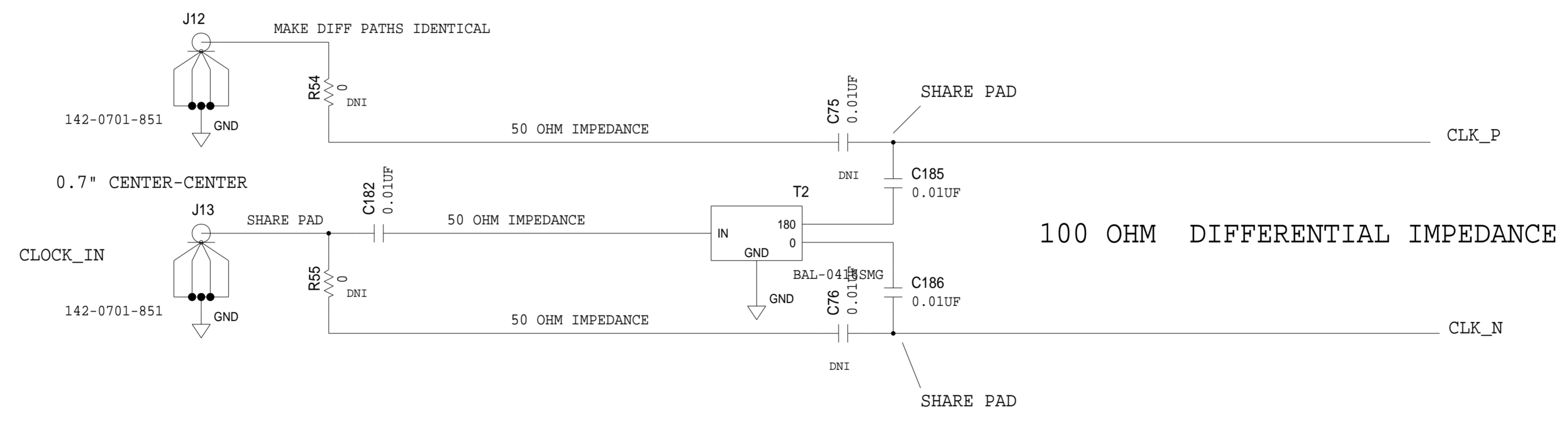
ANALOG INPUT



OPTIONAL VCM SUPPLIED ON-CHIP BY DEFAULT



CLOCK INPUT



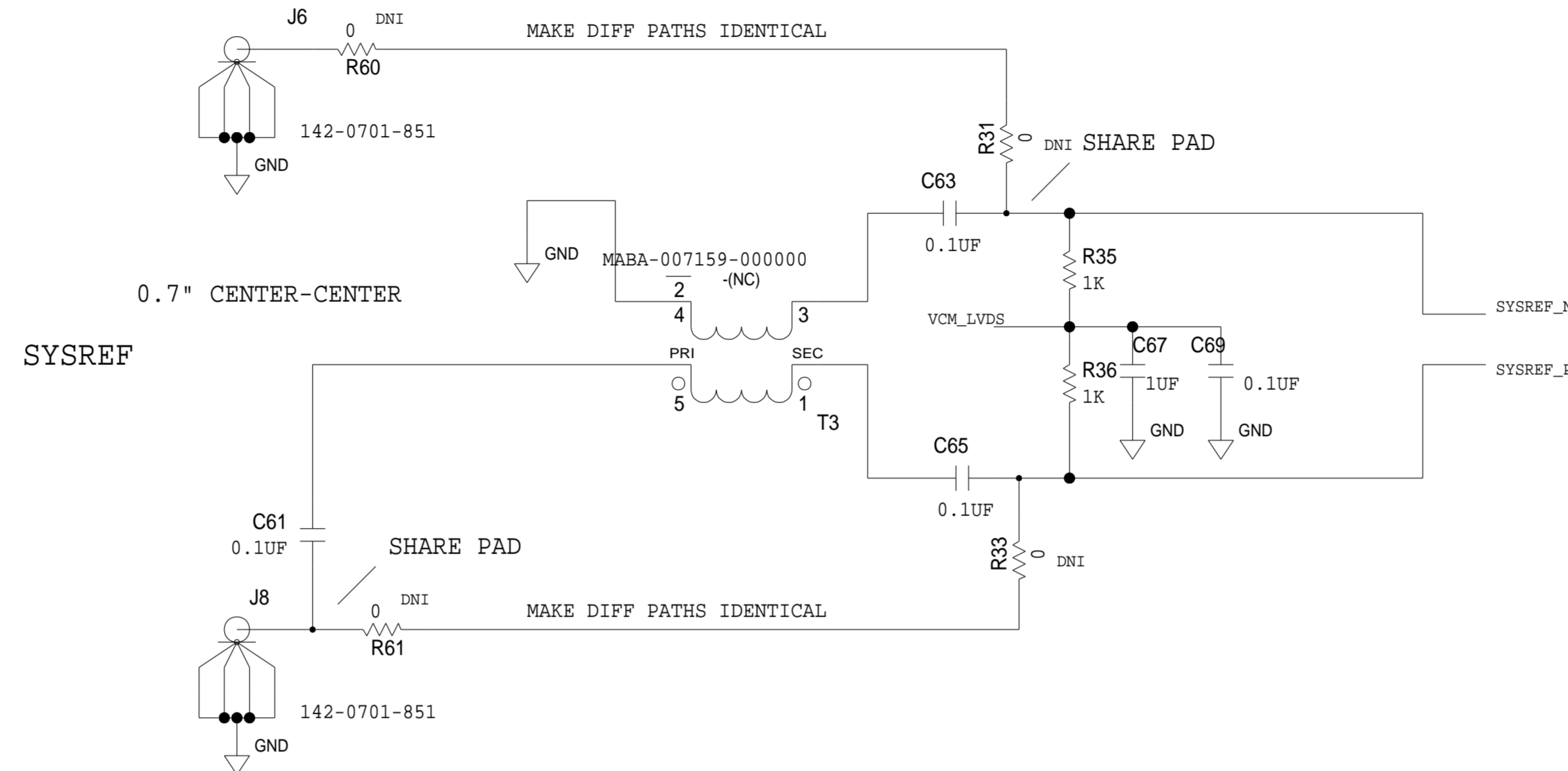
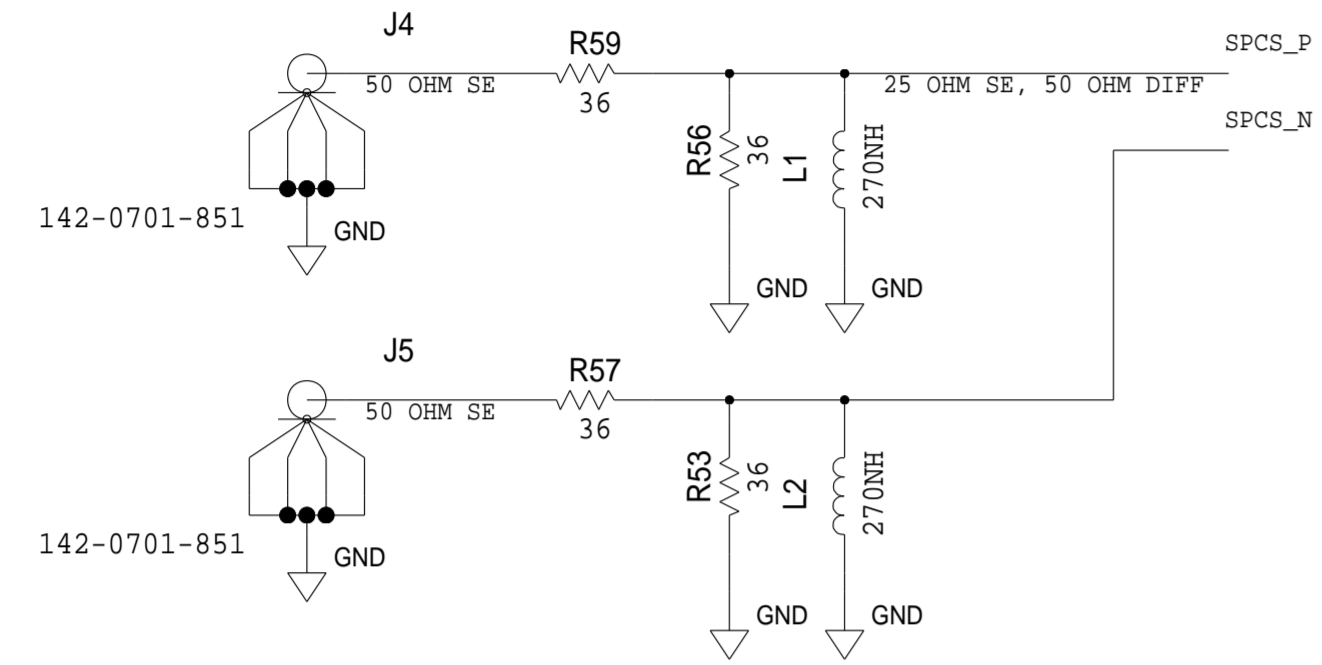
EXTERNAL BALUN WILL SUPPORT VERY LOW FREQUENCY CLOCK

	SCHEMATIC		
	HW TYPE : Characterisation Product(s): AD9213		
	DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. 02_044860	REV C
	PTD ENGINEER S. GIBBS	SIZE D	SCALE 1:1
		SHEET 4 OF 8	

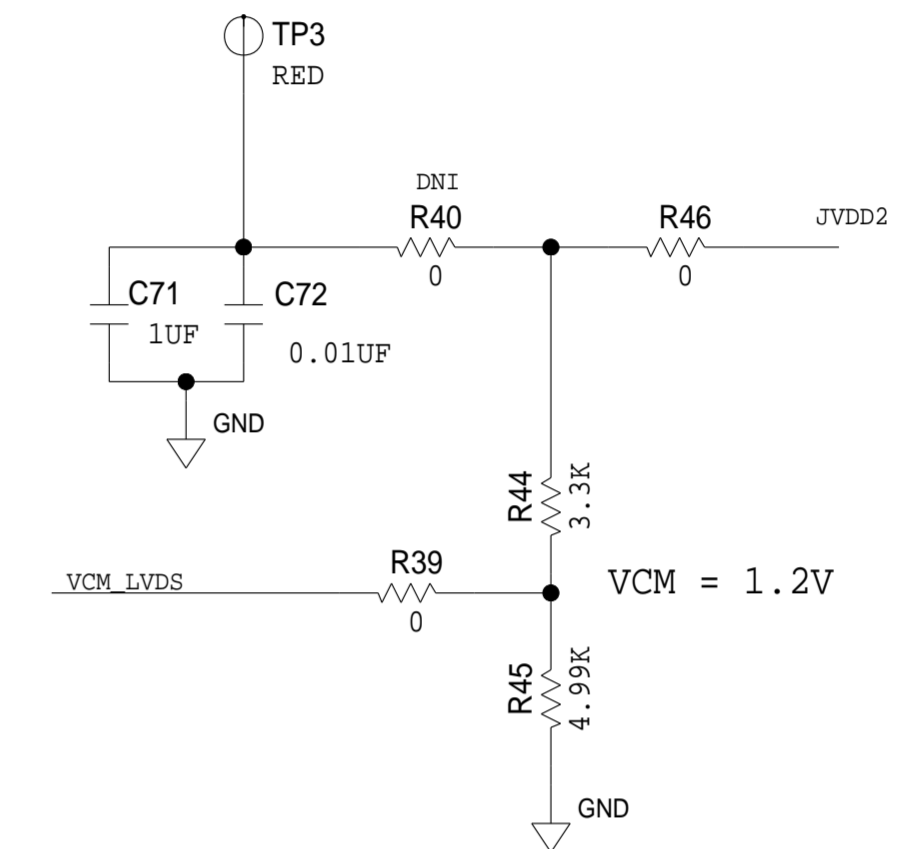
SYSREF, TRIG, SPCS, RSTB, PDWN, TDP/TDN, AGC

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

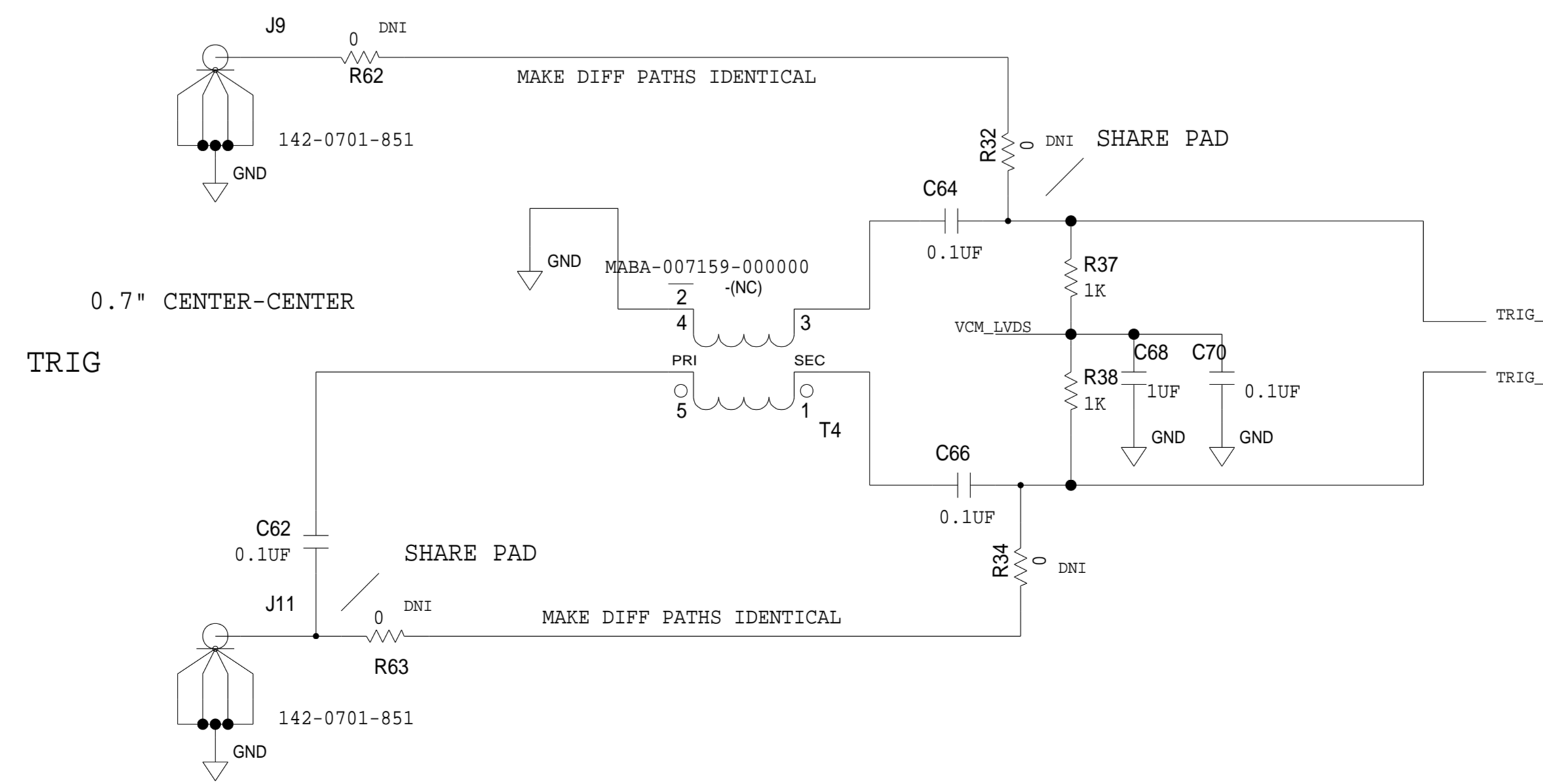
FUTURE NON-LINEAR CAL 4GHZ TONE FROM ON-CHIP DAC



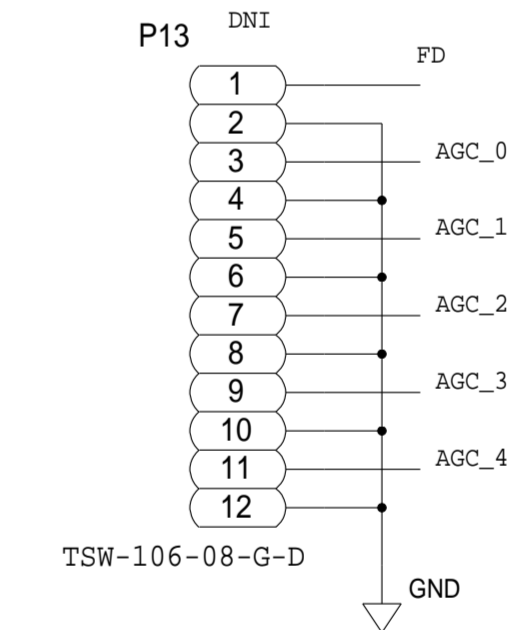
EXTERNAL FORCE 2 X VCM



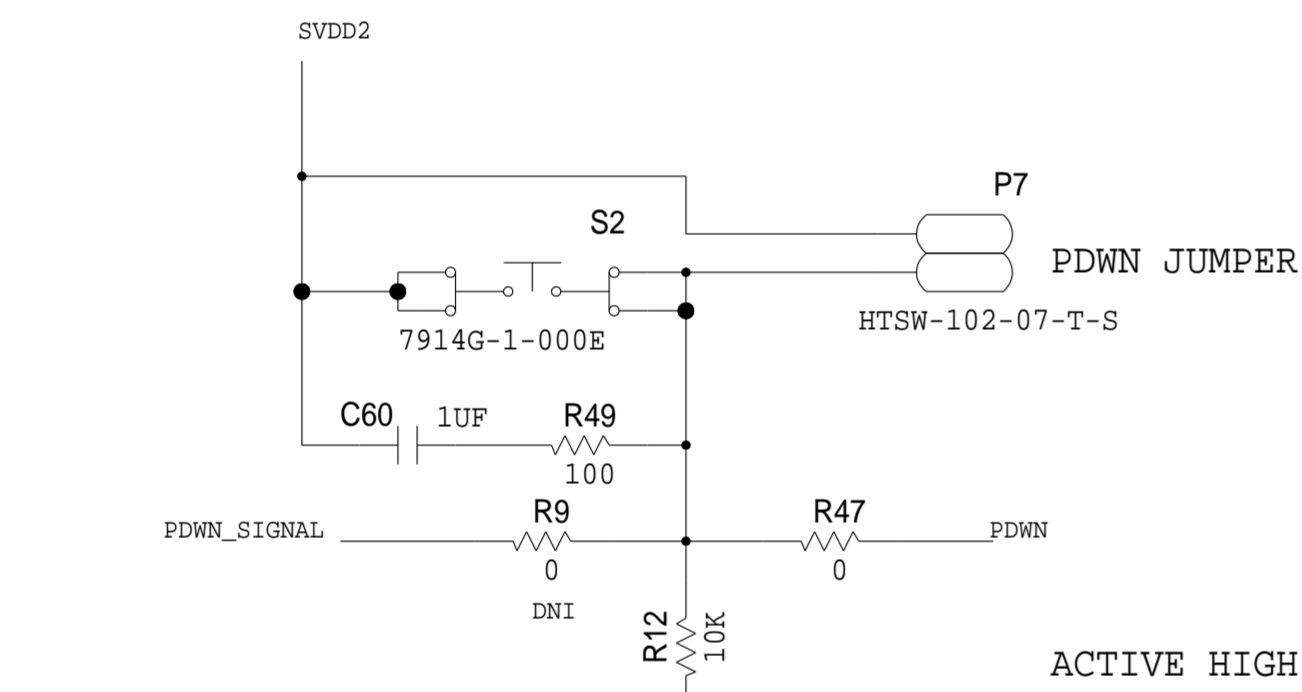
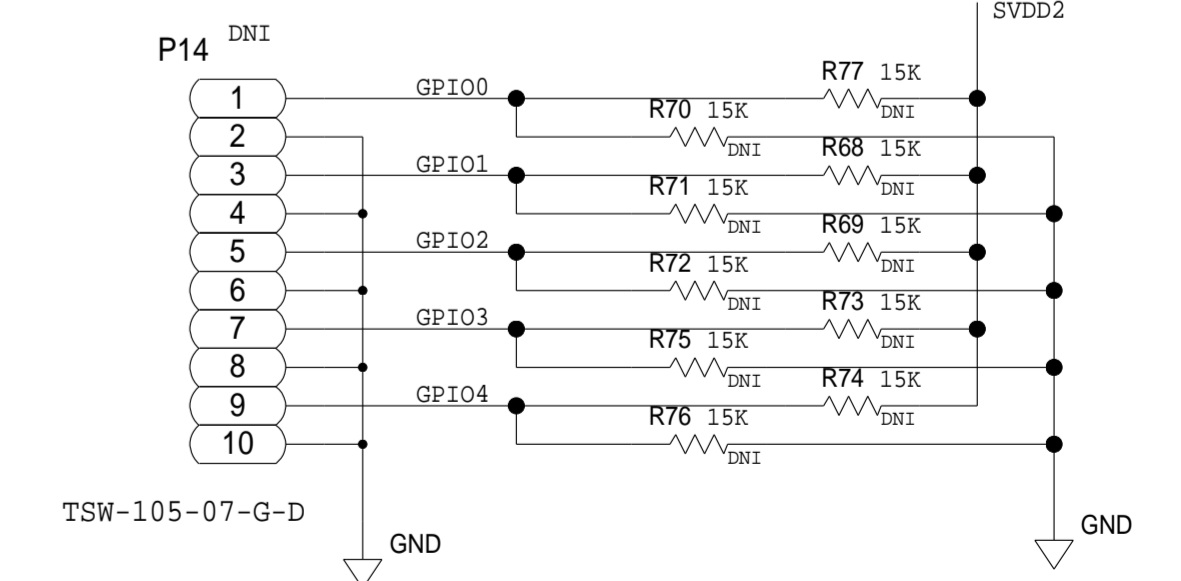
SYSREF, TRIG ARE LVDS AND TERMINATED 100 OHM DIFF ON-CHIP



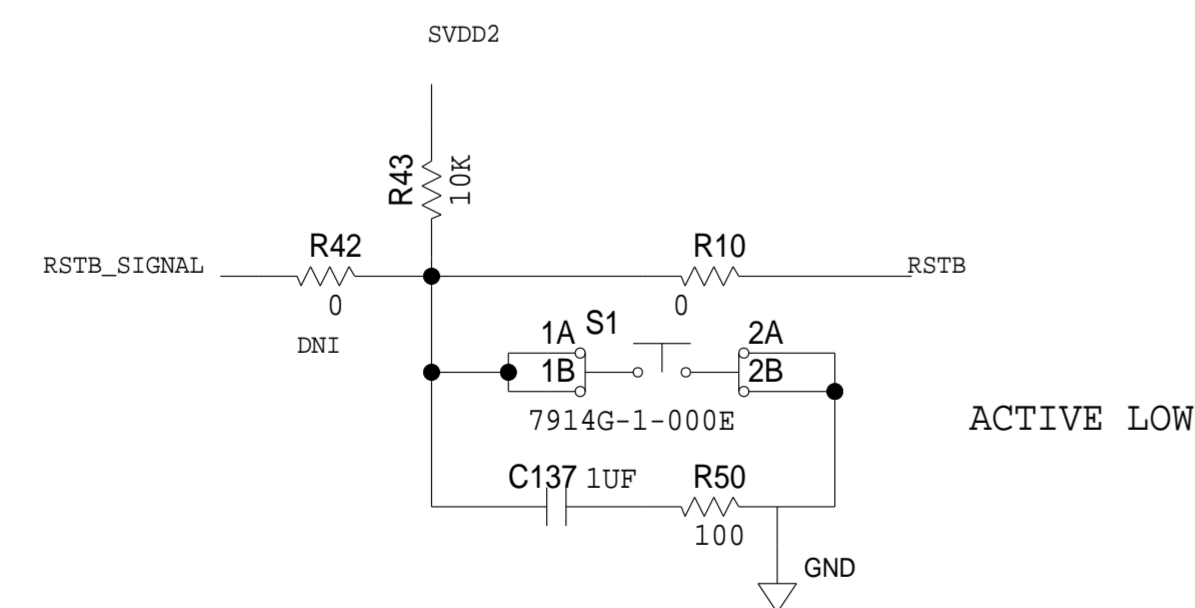
FUTURE AGC SIGNALS ACCESS HEADER



GPIO HEADER



PDWN FROM FPGA, JUMPER, OR PUSHBUTTON

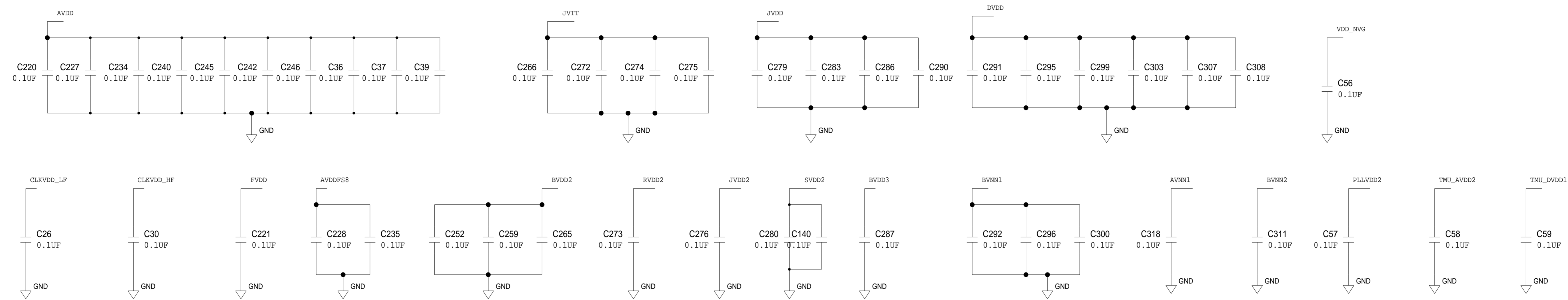


RSTB FROM FPGA OR SVDD2 POWERUP OR PUSHBUTTON

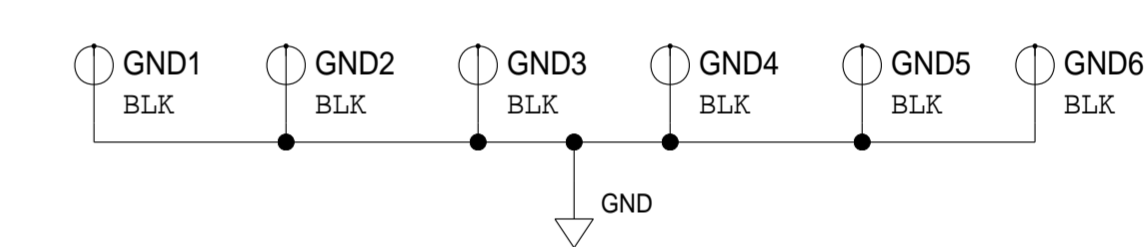
ANALOG DEVICES		SCHEMATIC			
HW TYPE : Characterisation Product(s): AD9213		DESIGN VIEW <DESIGN_VIEW>		DRAWING NO. 02_044860	
PTD ENGINEER S.GIBBS		SIZE D	SCALE 1:1	REV C	
		SHEET 5 OF 8			

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

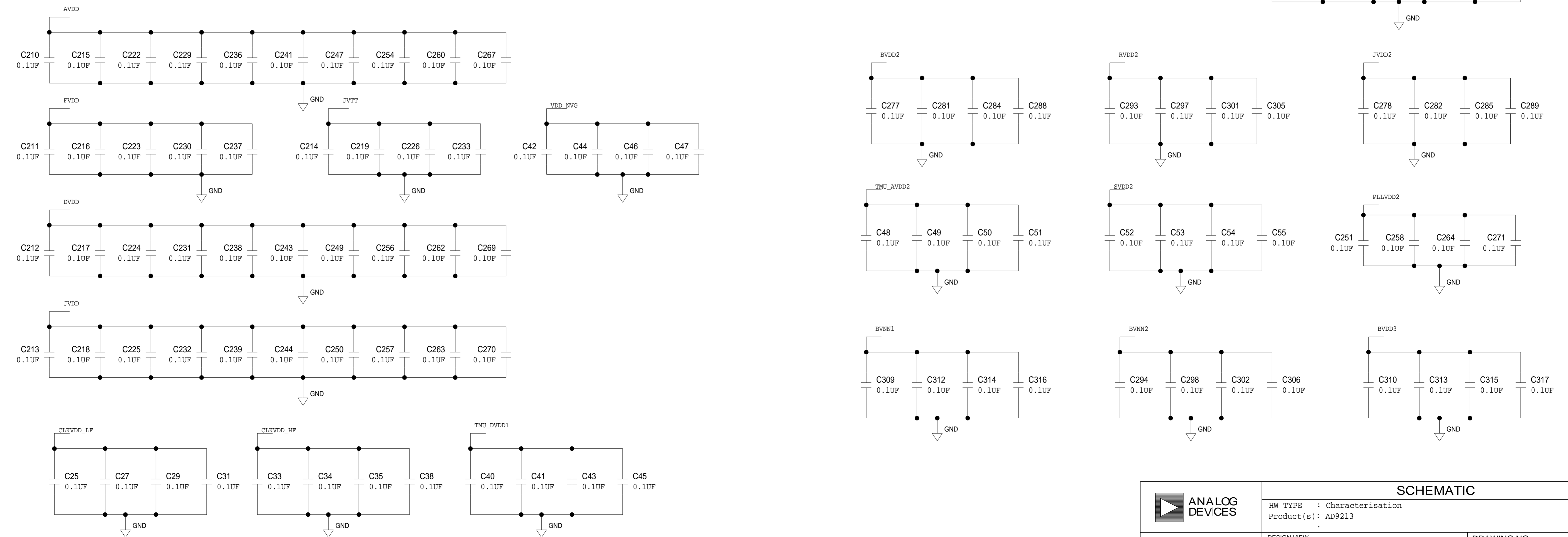
DECOUPLING CAPACITORS DIRECTLY BELOW BGA FOOTPRINT



DISTRIBUTED GND TEST PTS



DISTRIBUTED DECOUPLING CAPACITORS

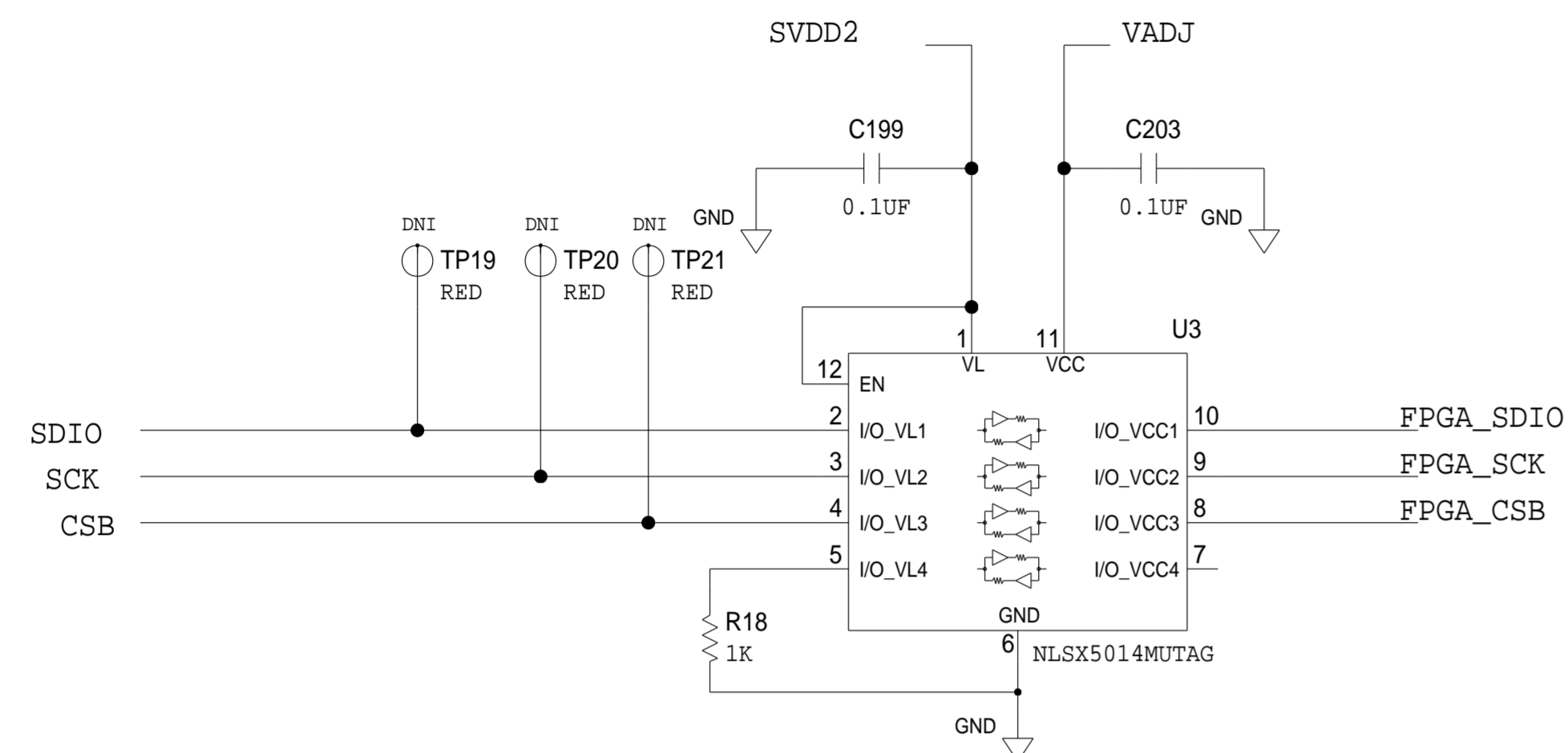


	SCHEMATIC		
	HW TYPE : Characterisation Product(s): AD9213		
	DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. 02_044860	REV C
	PTD ENGINEER S.GIBBS	SIZE D	SCALE 1:1
		SHEET 6 OF 8	

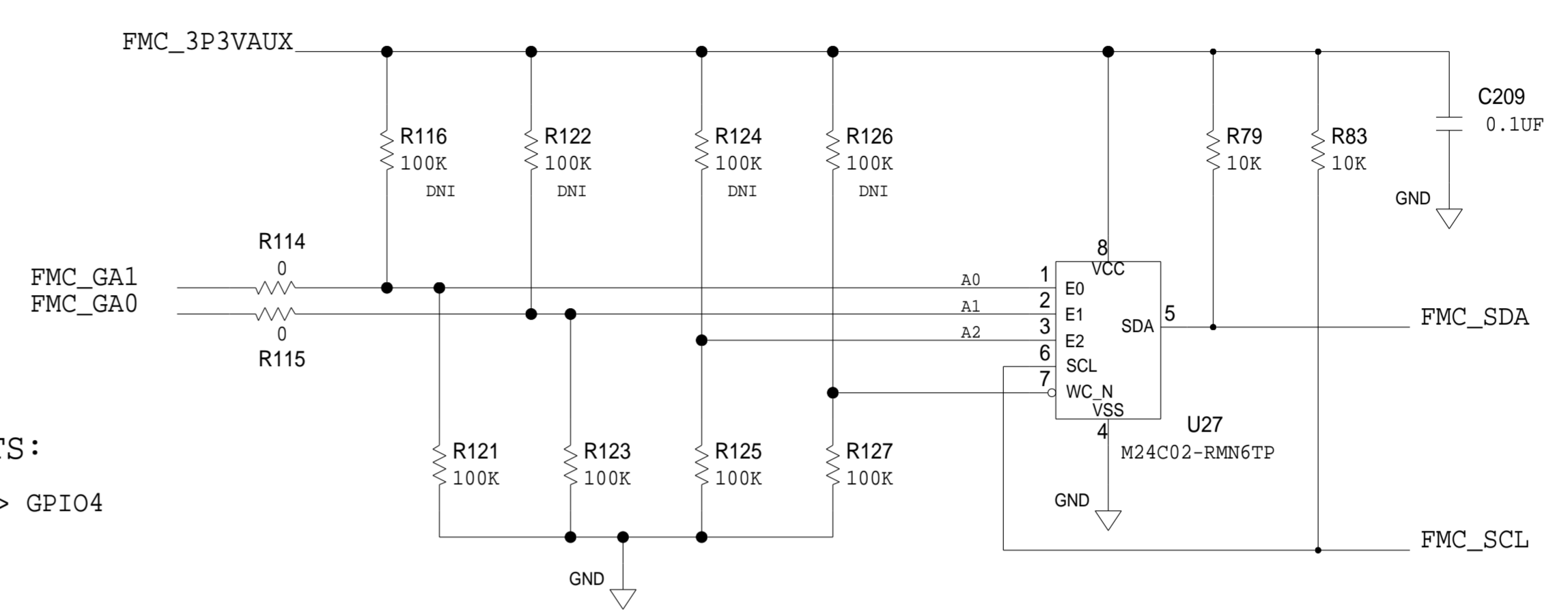
FMC BUFFERS - SPI, GPIO, RESET, SYNCINB, JTAG, PDWN, EEPROM

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

3-WIRE SPI

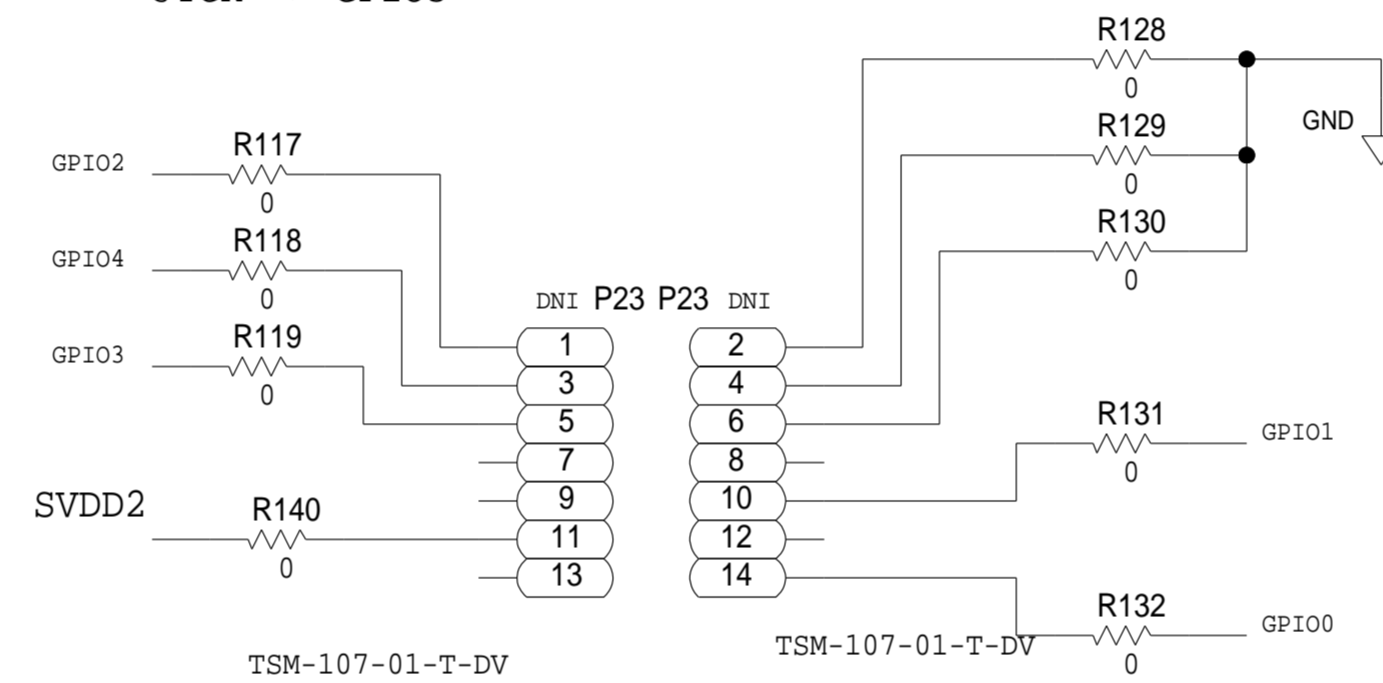


EEPROM



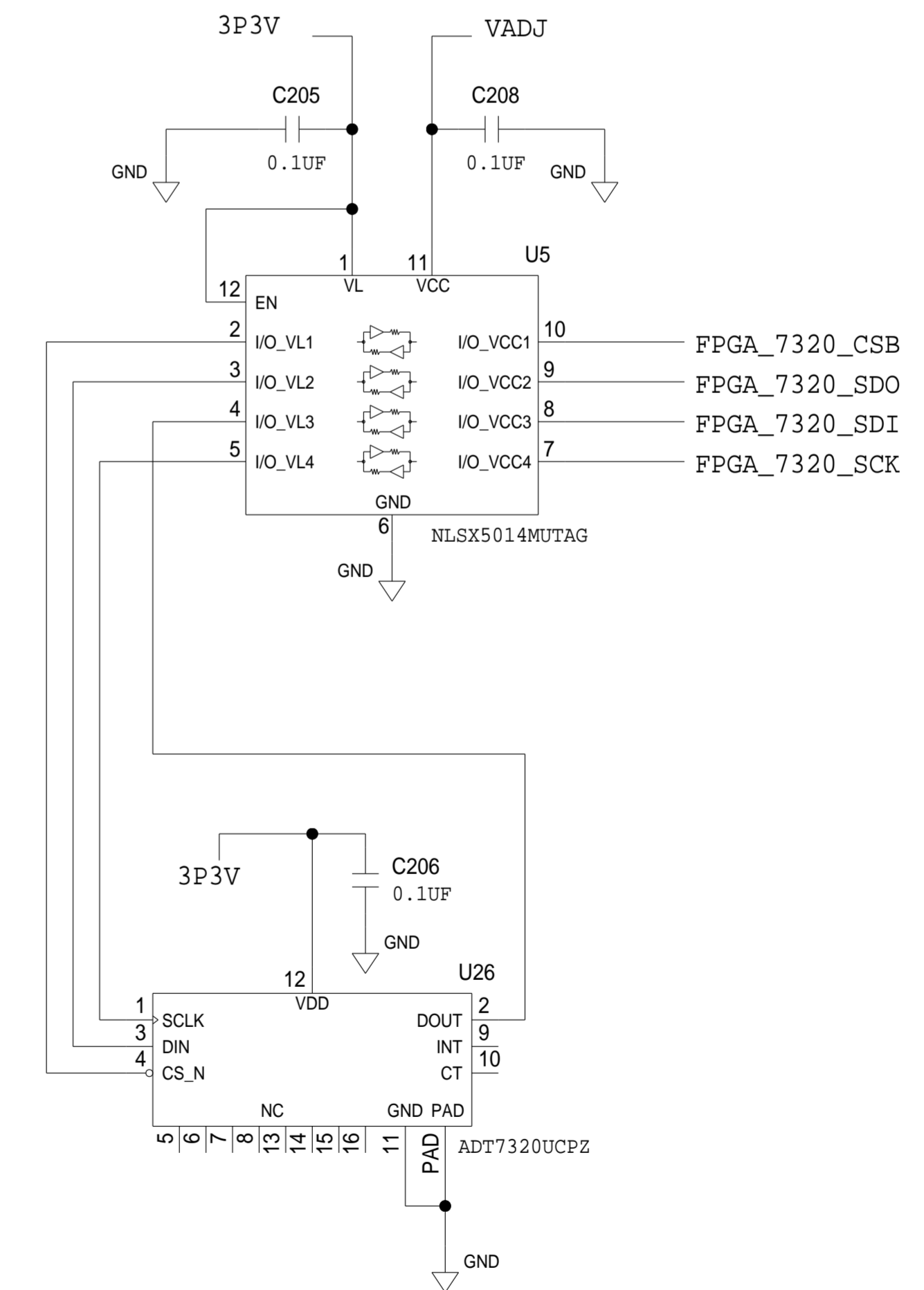
JTAG GPIO MAPPING

- INPUTS:
- JTDI -> GPIO2
 - JTMS -> GPIO1
 - JTRST -> GPIO0
 - JTCK -> GPIO3
- OUTPUTS:
- JTDO -> GPIO4

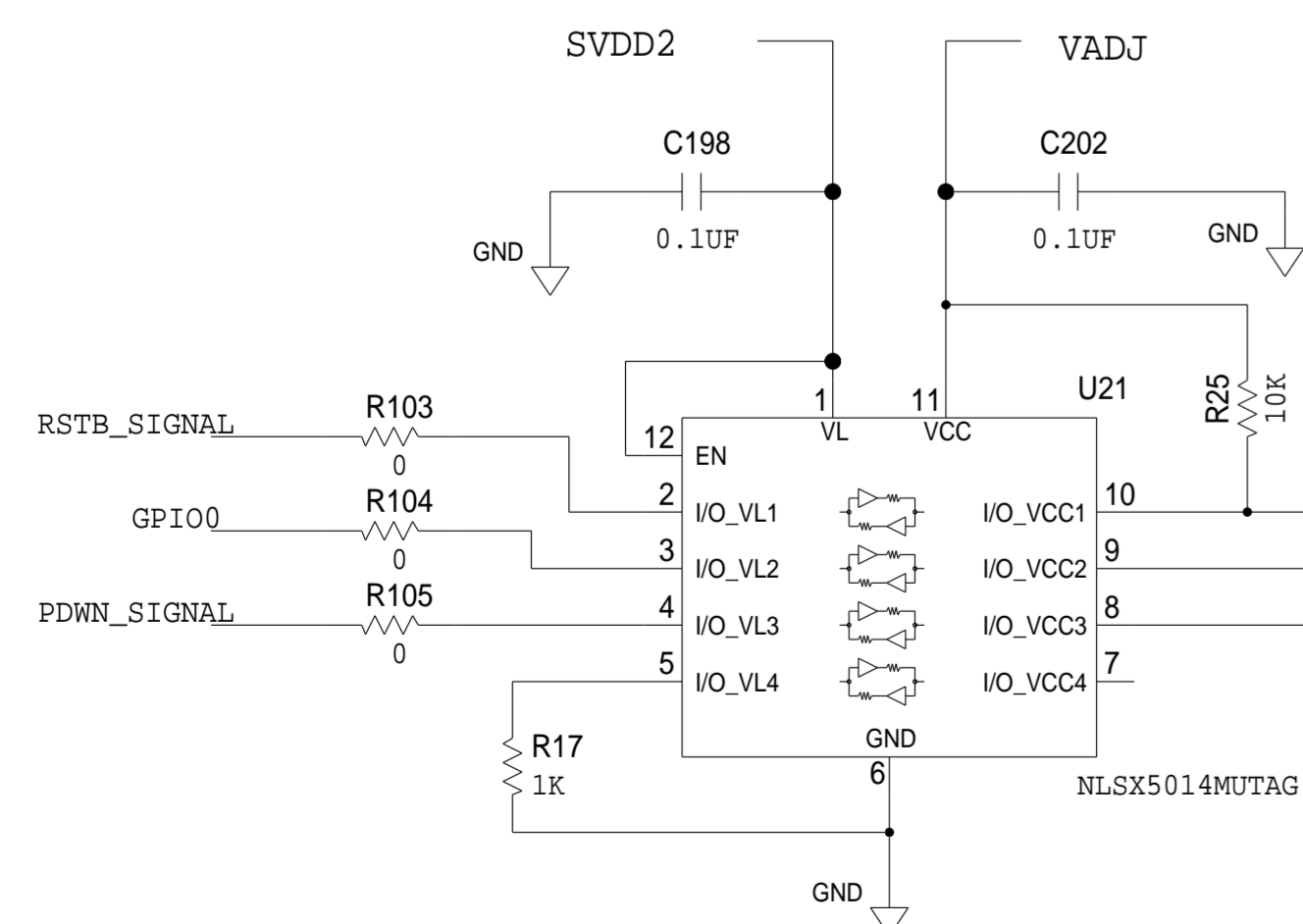


FOR JTAG OPERATION
PIN 8 MUST BE REMOVED AS KEY
PINS 7, 9, 13, 8, 12 ARE NO CONNECT

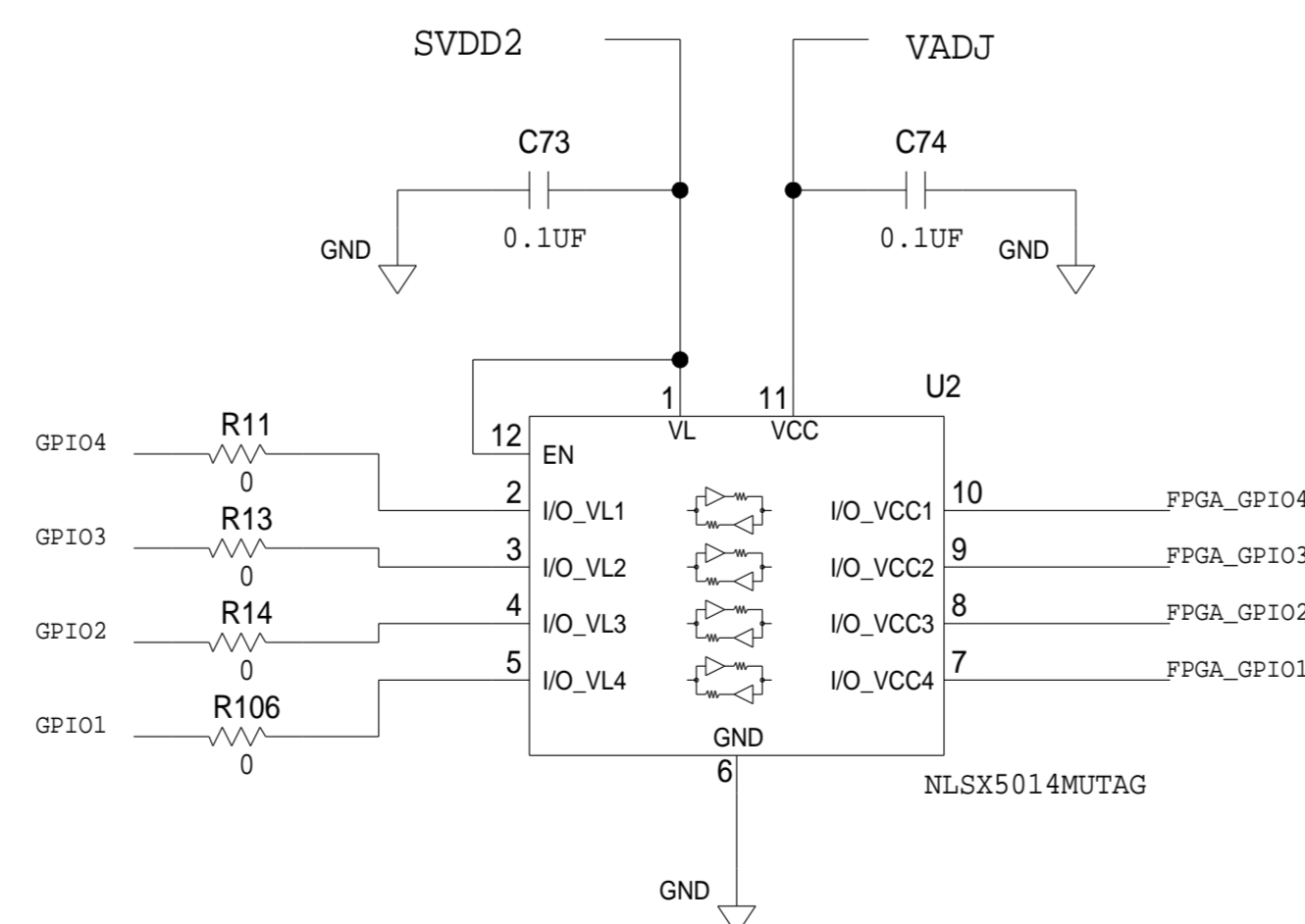
BOARD TEMPERATURE SENSOR



GPIO 0, RSTB, PDWN



GPIO 1-4 INPUTS

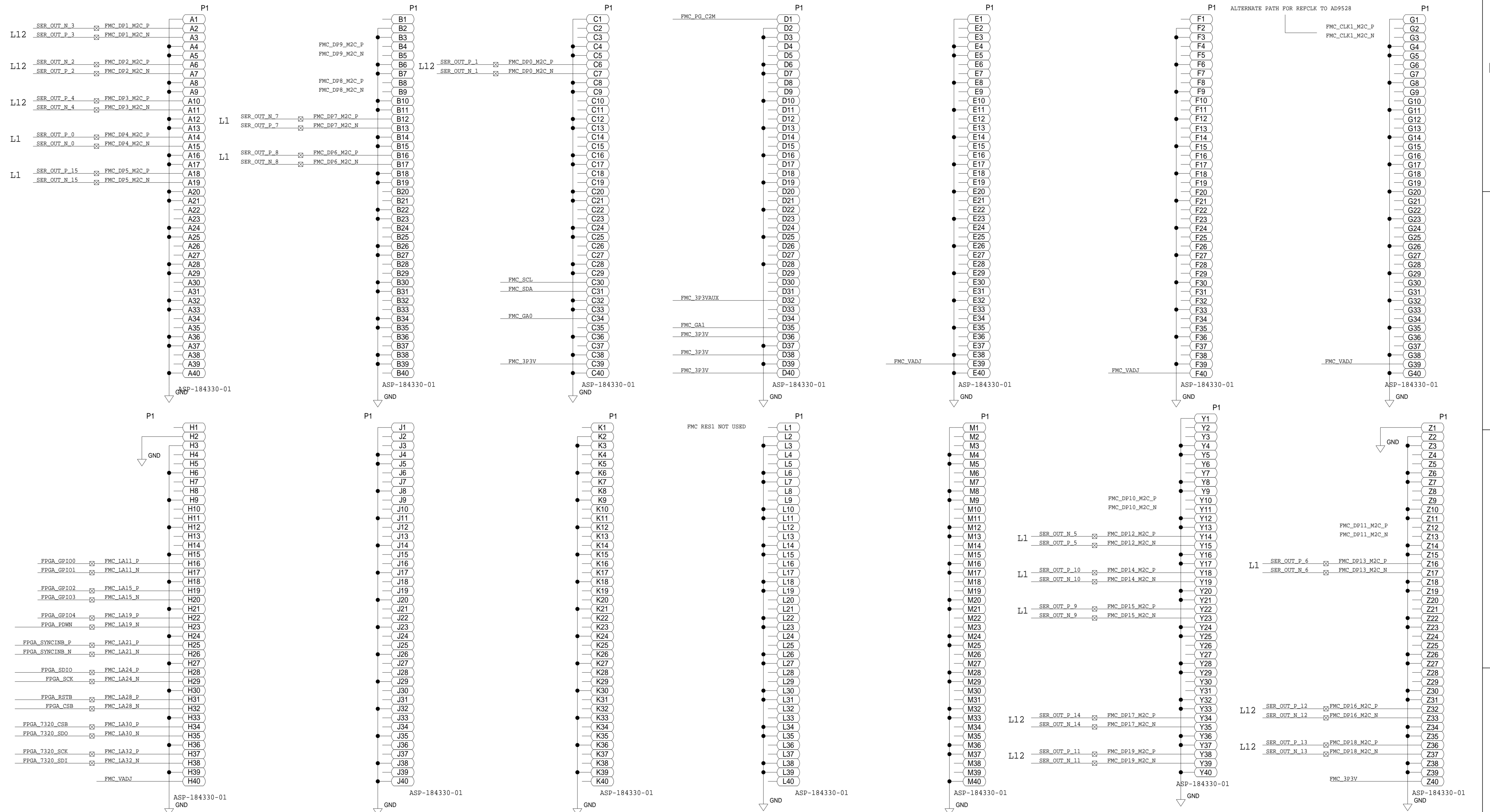


ANALOG DEVICES		SCHEMATIC	
HW TYPE : Characterisation Product(s): AD9213		DRAWING NO. 02_044860	REV C
DESIGN VIEW <DESIGN_VIEW>	PTD ENGINEER S. GIBBS	SIZE D	SCALE 1:1
SHEET 7 OF 8			

FMC+ HSPC CONNECTOR

SER_OUT PAIRS ASSIGNED TO TOP (L1) OR BOTTOM (L12)
DPX QUADS ASSIGNED TO DUT QUADS; CHANGES NEED DISCUSSION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



NOTE: SER_OUT PINS SHOULD BE FIT INTO
ADJACENT QUADS 0-3, 4-7, 8-11, 12-15, 16-19
FPGA_SYNCINB SHOULD BE DIFF CMOS DRIVE

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	HW TYPE : Characterisation Product(s) : AD9213		
	DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. 02_044860	REV C
	PTD ENGINEER S. GIBBS	SIZE D	SCALE 1:1
		SHEET 8	OF 8