

[1] - 1_EIT_RPi

U_3_Phase_Amp
3_Phase_Amp.SchDoc

U_2_ADC
2_ADC.SchDoc

U_6_MUX
6_MUX.SchDoc

U_4_Supply
4_Supply.SchDoc

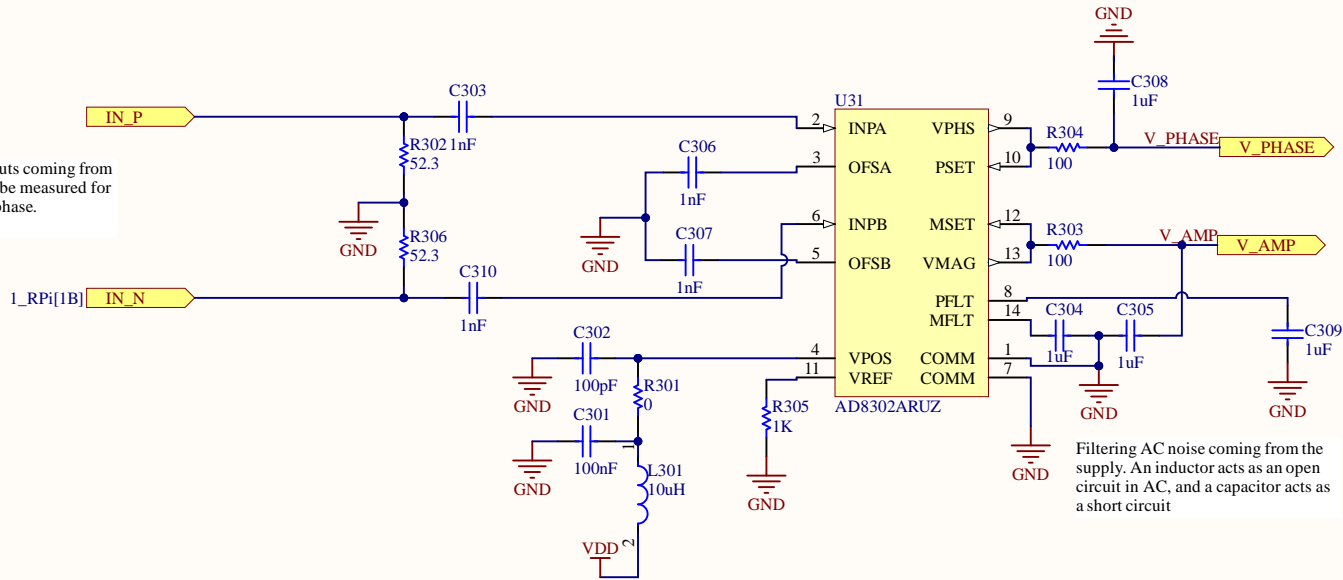
3v3 Power	1	2	5v Power
GPIO 2 (IC1 SDA)	3	4	5v Power
GPIO 3 (IC1 SCL)	5	6	Ground
GPIO 4 (GPCLK0)	7	8	GPIO 14 (UART TX)
Ground	9	10	GPIO 15 (UART RX)
GPIO 17 (SPI CE1)	11	12	GPIO 18 (SPI CE0)
GPIO 27	13	14	Ground
GPIO 22	15	16	GPIO 23
3v3 Power	17	18	GPIO 24
GPIO 10 (SPI MOSI)	19	20	Ground
GPIO 9 (SPI MISO)	21	22	GPIO 25
GPIO 11 (SPI SCLK)	23	24	GPIO 8 (SPI CE1)
Ground	25	26	GPIO 7 (SPI CE1)
GPIO 0 (EEPROM SDA)	27	28	GPIO 1 (EEPROM SCL)
GPIO 5	29	30	Ground
GPIO 6	31	32	GPIO 12 (PWM0)
GPIO 13 (PWM1)	33	34	Ground
GPIO 19 (SPI MISO)	35	36	GPIO 16 (SPI CE2)
GPIO 26	37	38	GPIO 20 (SPI MOSI)
Ground	39	40	GPIO 21 (SPI SCLK)

U_5_WG
5_WG.SchDoc

Title Raspberry Pi Connector		
Size A4	Number 1	Revision
Date: 7/25/2024	Sheet 1 of 8	
File: C:\Users\...\1_RPi.SchDoc	Drawn By: Pedro	

[3] - 3_EIT_Phase-Amplitude-Detector

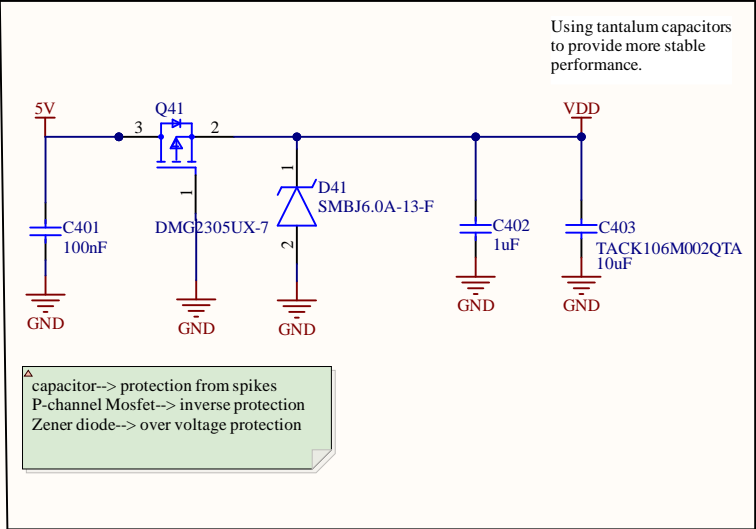
Differential inputs coming from the structure to be measured for amplitude and phase.



Title		
Phase-Amplitude-Detector-AD8302		
Size	Number	Revision
A4	3	
Date:	7/25/2024	Sheet 3 of 8
File:	C:\Users\...3_Phase_Amp.SchDoc	Drawn By: Narges

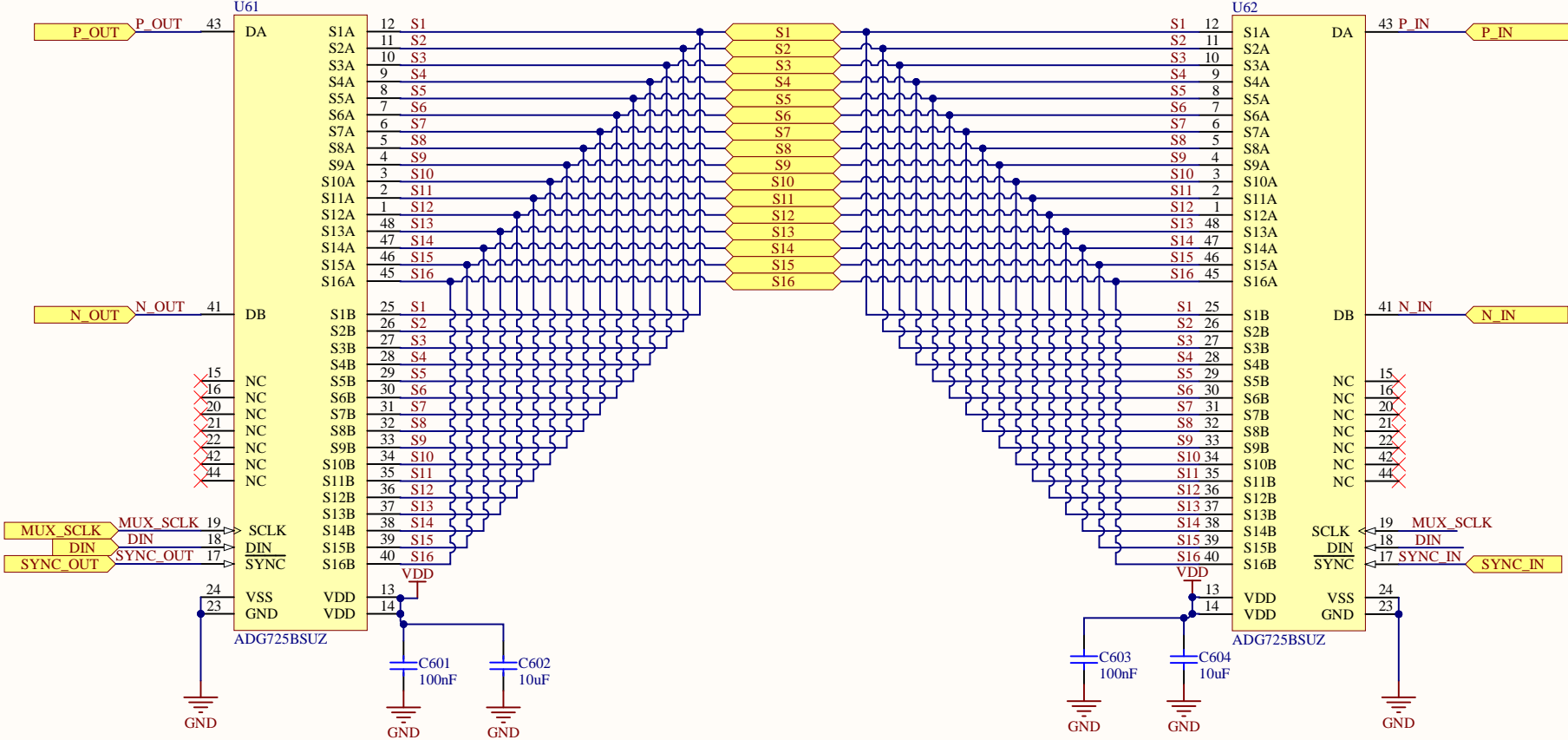
[4] 4_EIT_Power Supply

5V-reg



Title Raspberry Pi Connector		
Size A4	Number 4	Revision
Date:	7/25/2024	Sheet 4 of 8
File:	C:\Users\...4_Supply.SchDoc	Drawn By: Pedro and Narges

[6] 6_EIT_MUX



Title		
Multiplexer		
Size	Number	Revision
A4	6	
Date:	7/25/2024	Sheet 6 of 8
File:	C:\Users\...\6_MUX.SchDoc	Drawn By: Pedro