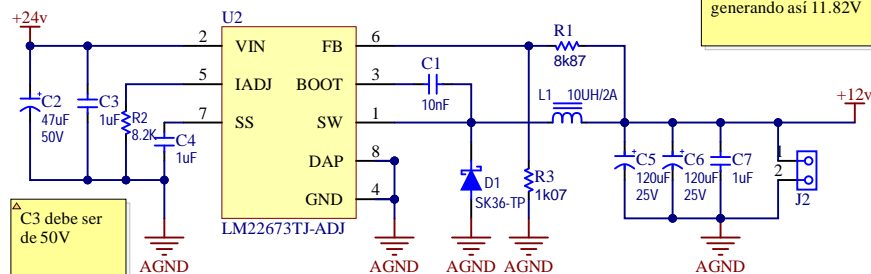
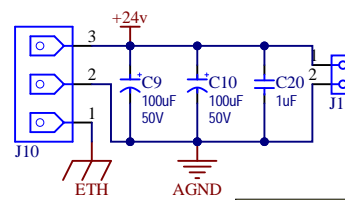


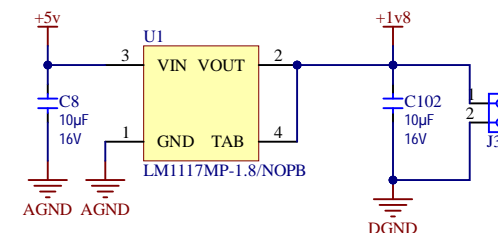
SUPPLY 12v/3A



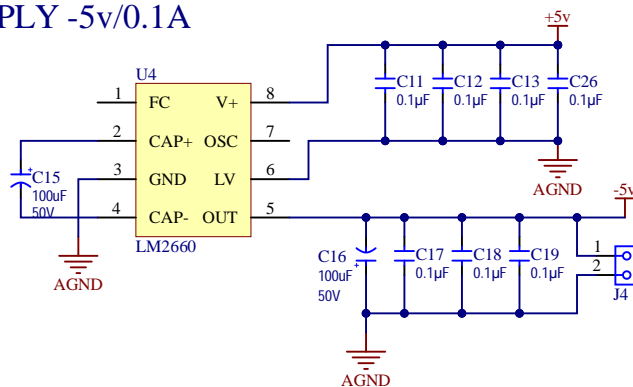
+24v CONNECTOR



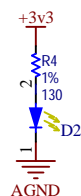
SUPPLY 1v8/0.8A



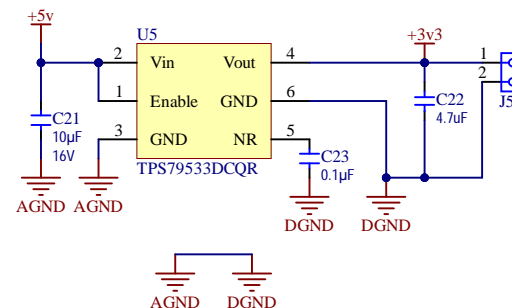
SUPPLY -5v/0.1A



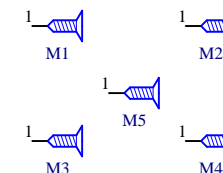
BOARD LED



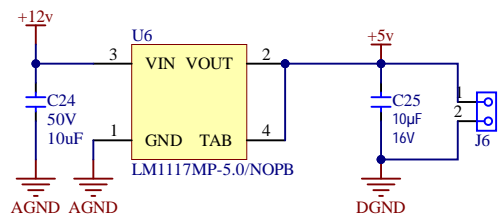
SUPPLY 3v3/0.5A



BOARD SCREWS

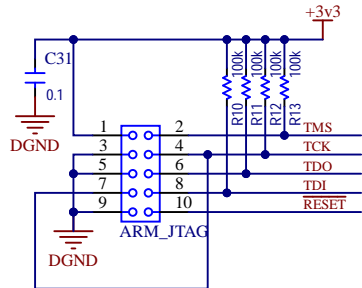


SUPPLY 5v/0.8A

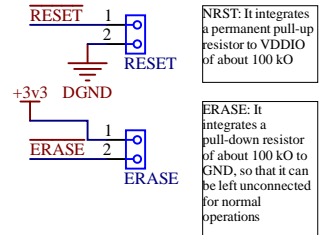


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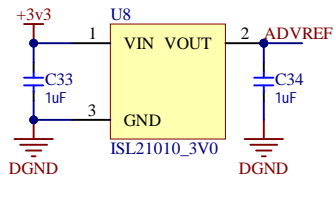
ARM - JTAG



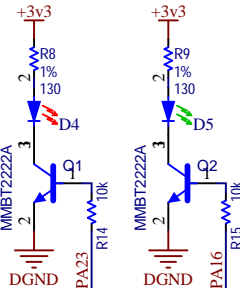
ARM - RESET AND ERASE



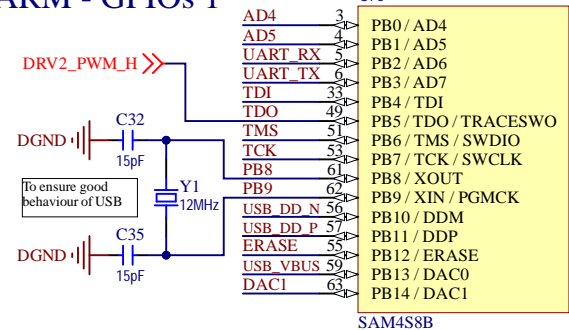
ARM - 3V3 ADC REF (OPTIONAL)



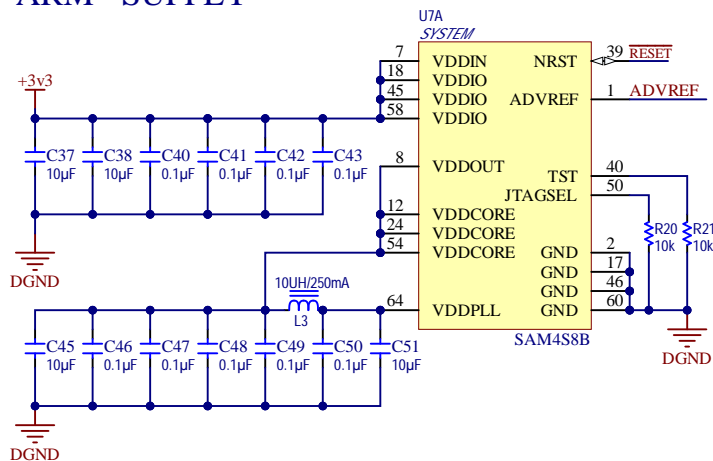
ARM - LEDs



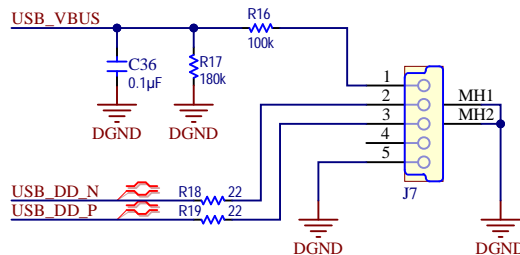
ARM - GPIOs 1



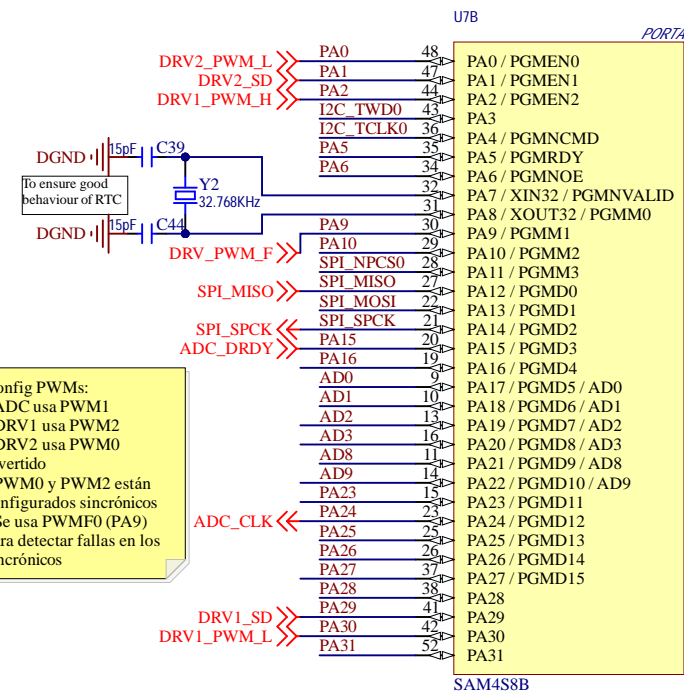
ARM - SUPPLY



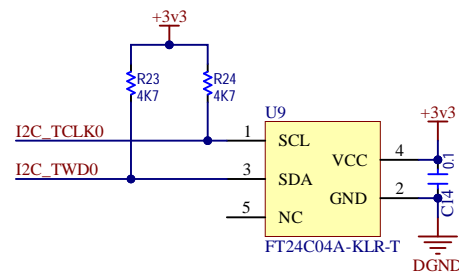
ARM - USB



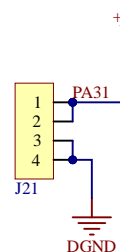
ARM - GPIOs 2



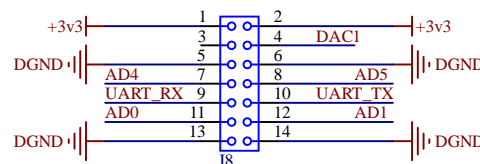
ARM - EEPROM



ARM - BTN



ARM - HEADER



TITLE: ARM

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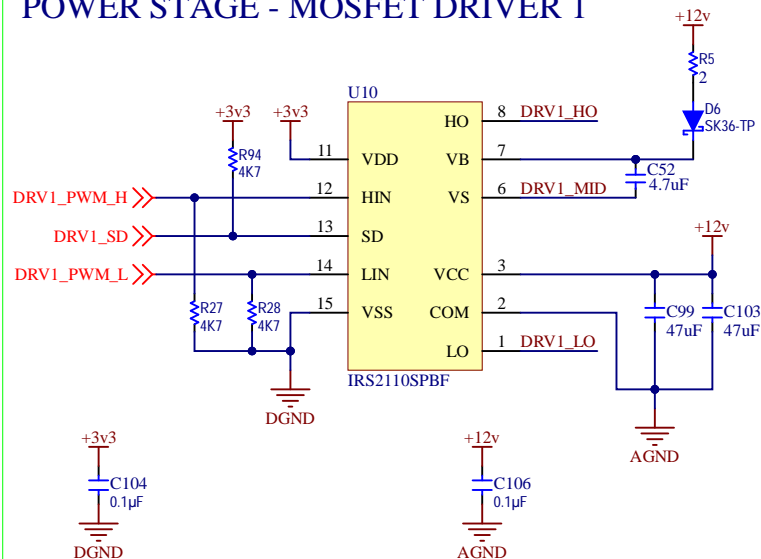
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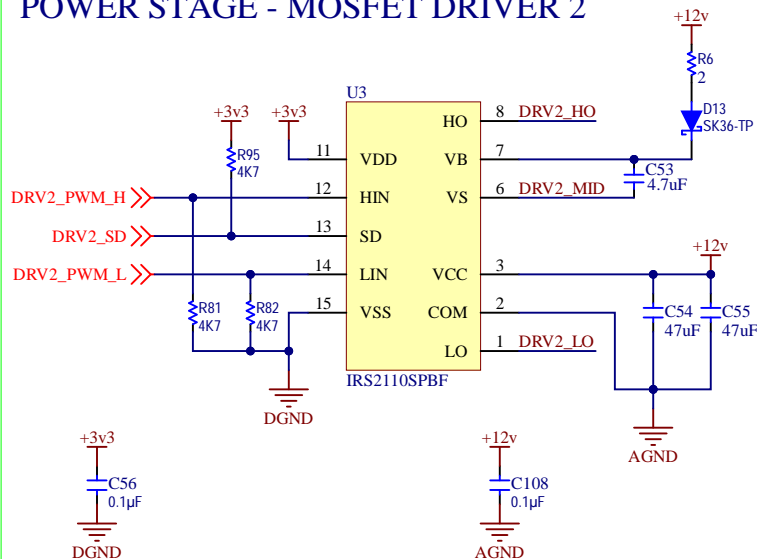
DESIGNER: Agustín Aon Sanchez

REVISOR: Ignacio Carugati

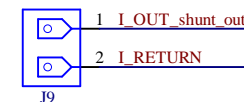
POWER STAGE - MOSFET DRIVER 1



POWER STAGE - MOSFET DRIVER 2



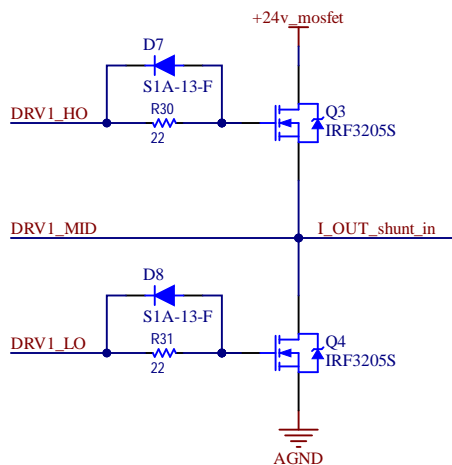
POWER STAGE - CONN OUT



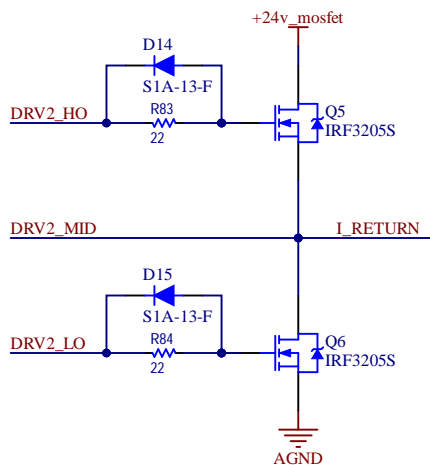
POWER STAGE - SENSOR



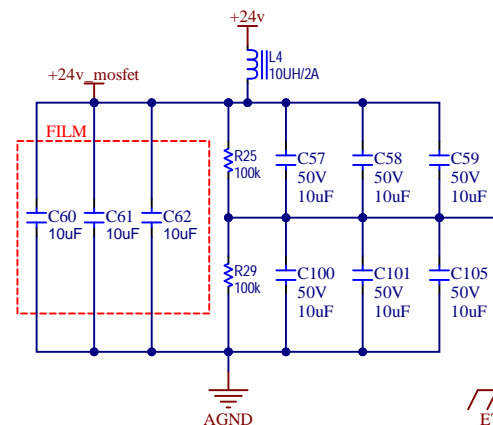
POWER STAGE - MOSFET1



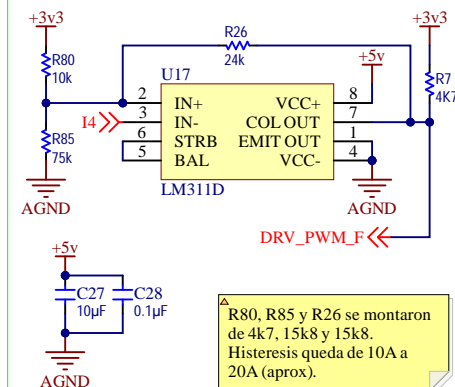
POWER STAGE - MOSFET1



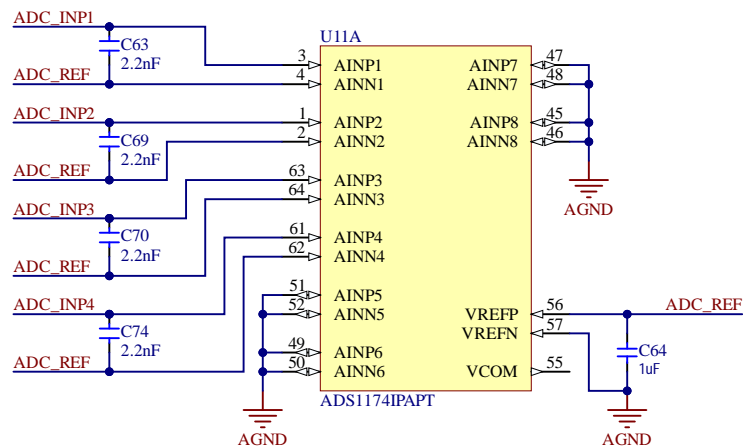
POWER STAGE - SUPPLY



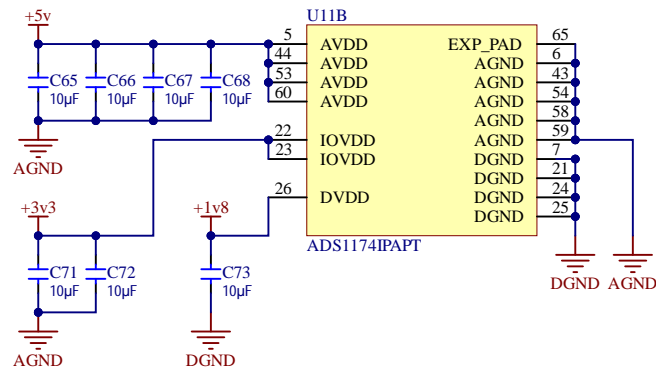
POWER STAGE - OC DETECTION



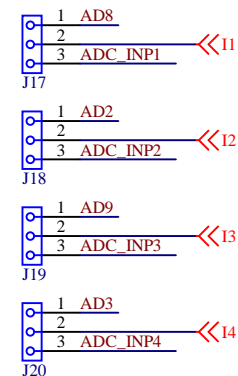
ADC - ANALOG INPUTS



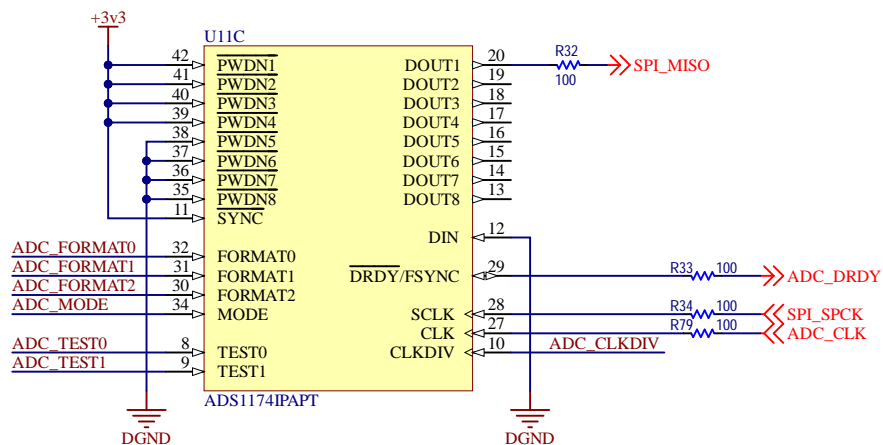
ADC - SUPPLY



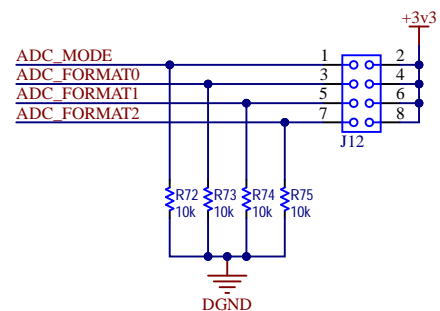
ADC - SOURCE SELECTOR



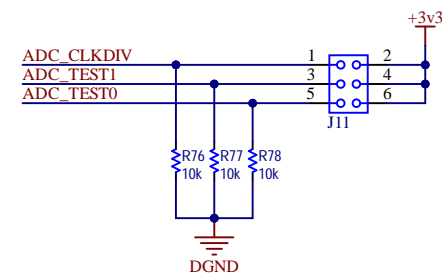
ADC - DIGITAL IO



ADC - MODE SELECTOR



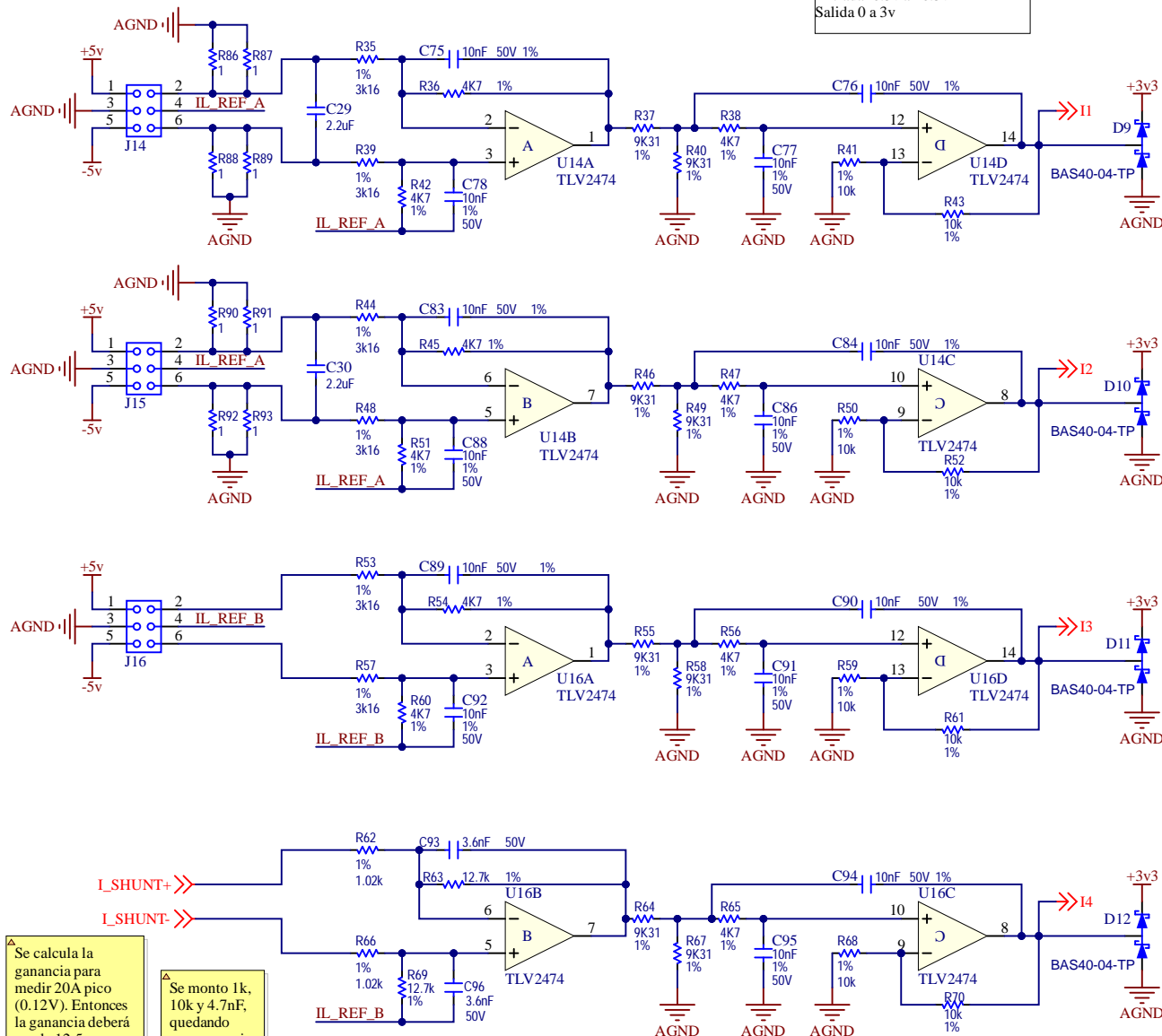
ADC - TEST SELECTOR



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ADC - CURRENT CHANNELS

Butterworth de 3er orden
Frecuencia de corte de 3400Hz
Entrada -0.5v a +0.5v
Salida 0 a 3v

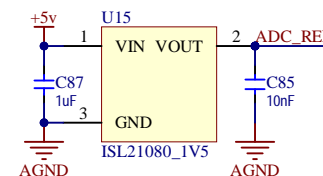
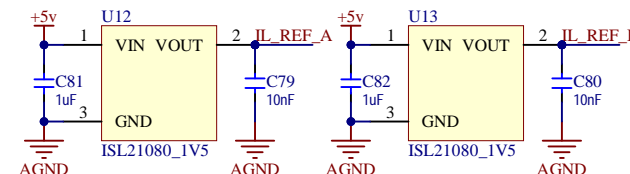


Se calcula la ganancia para medir 20A pico (0.12V). Entonces la ganancia deberá ser de 12.5 veces.

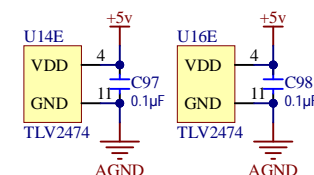
Se monto 1k, 10k y 4.7nF, quedando una ganancia de 10

ADC - CURRENT CHANNELS A REF

Reference output voltages: 1.5V, 2.5V
Output current source capability: -1mA to 25mA
Resistencia de salida = 0.025 (peor caso segun curvas del fabricante).
NOTA: Peor caso (simulación) Iout = -254uA por canal. Utilizo 2 referencias, una cada 2 canales.



ADC - OPAMP SUPPLY



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