

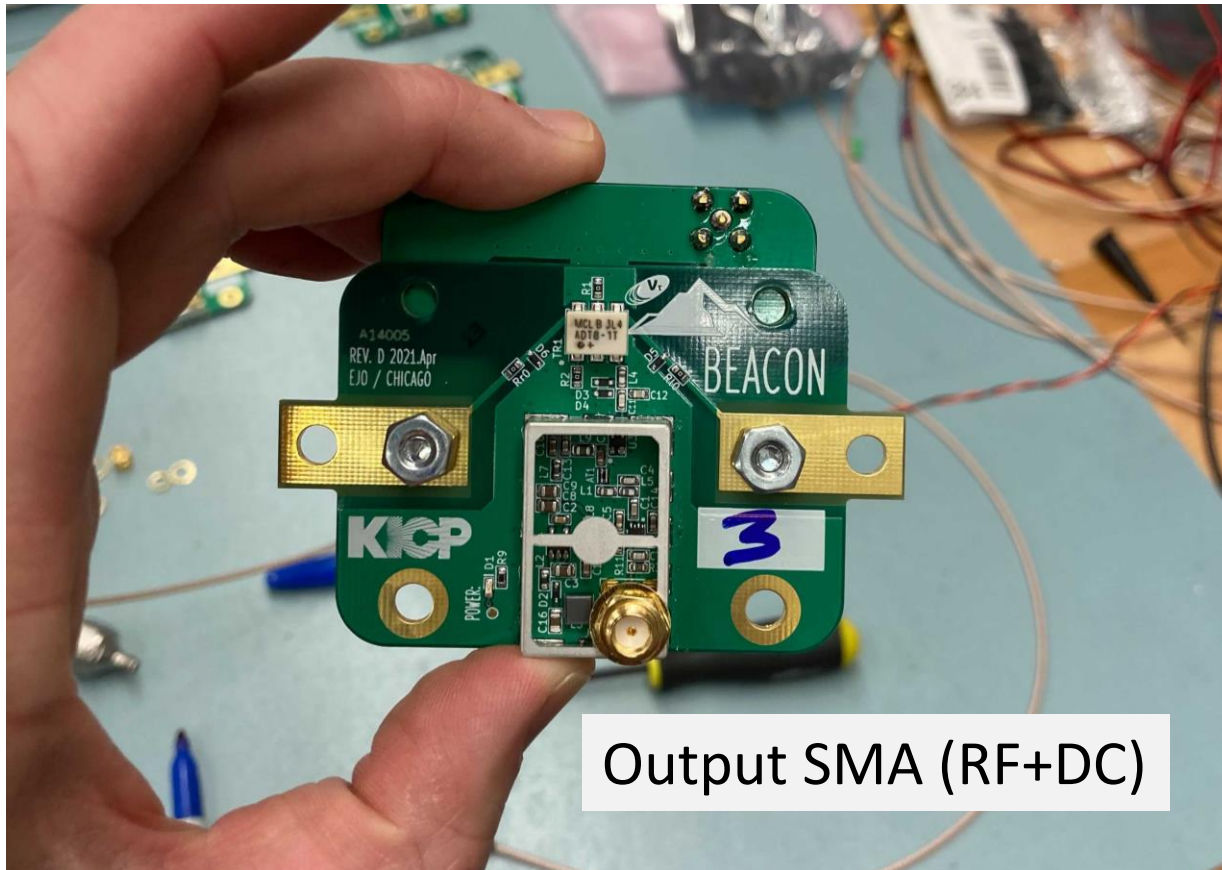
BEACON updated 2021 feed notes

25-May 2021

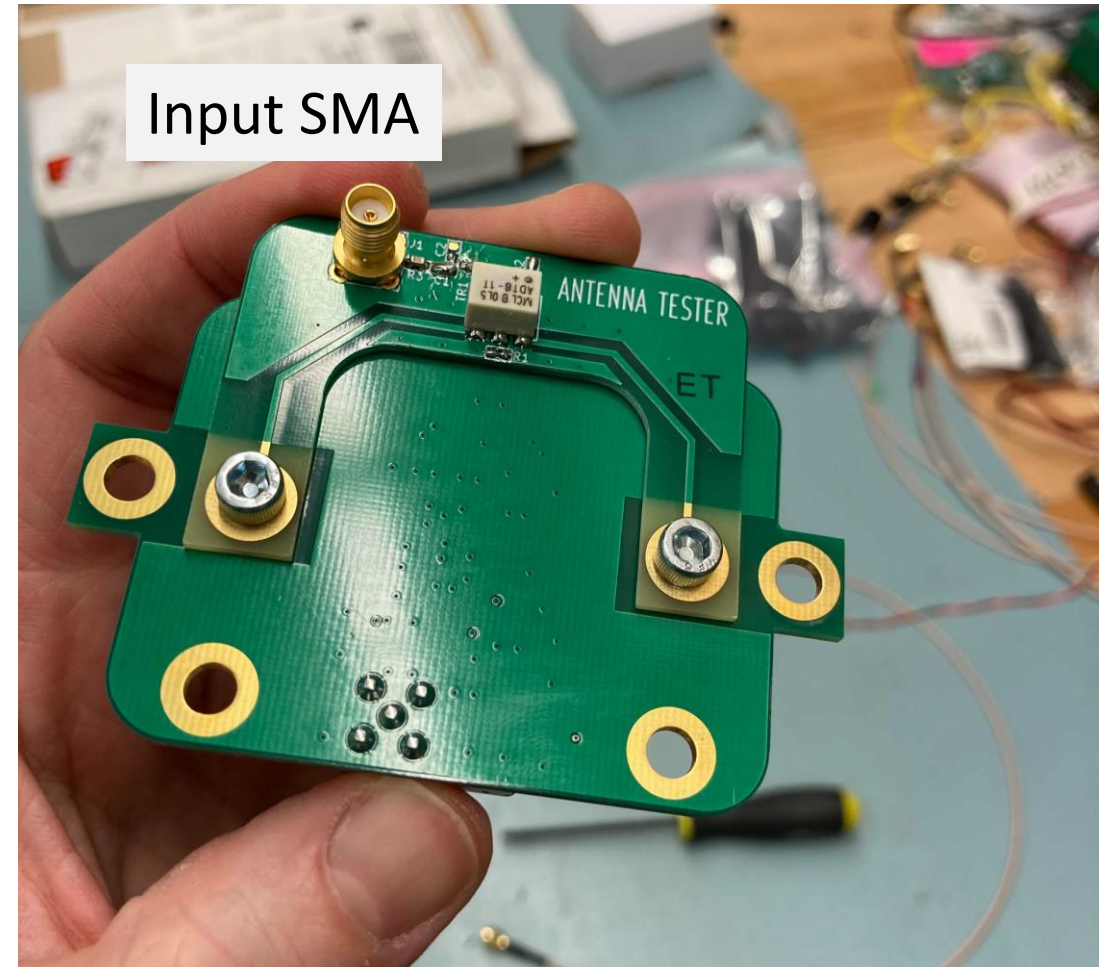
Using 'antenna tester' board for S-params

Boards connected using #8 screws + nuts. No need to overtighten (can tear off plating)

FRONT



BACK



Test setup using custom 2nd stage amp board

Power to 2nd stage amp board should be 4.8V-5V

Tested 11 boards quickly. All seem OK.
Bandpass has a bit more ripple than the 2020 version, but I think OK

Install this jumper in this position to enable signal to pass through the board.

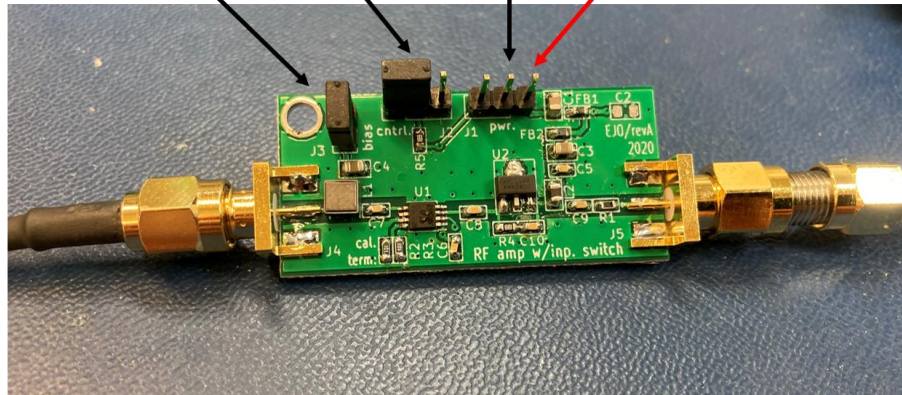
POWER header

Middle pin is GND

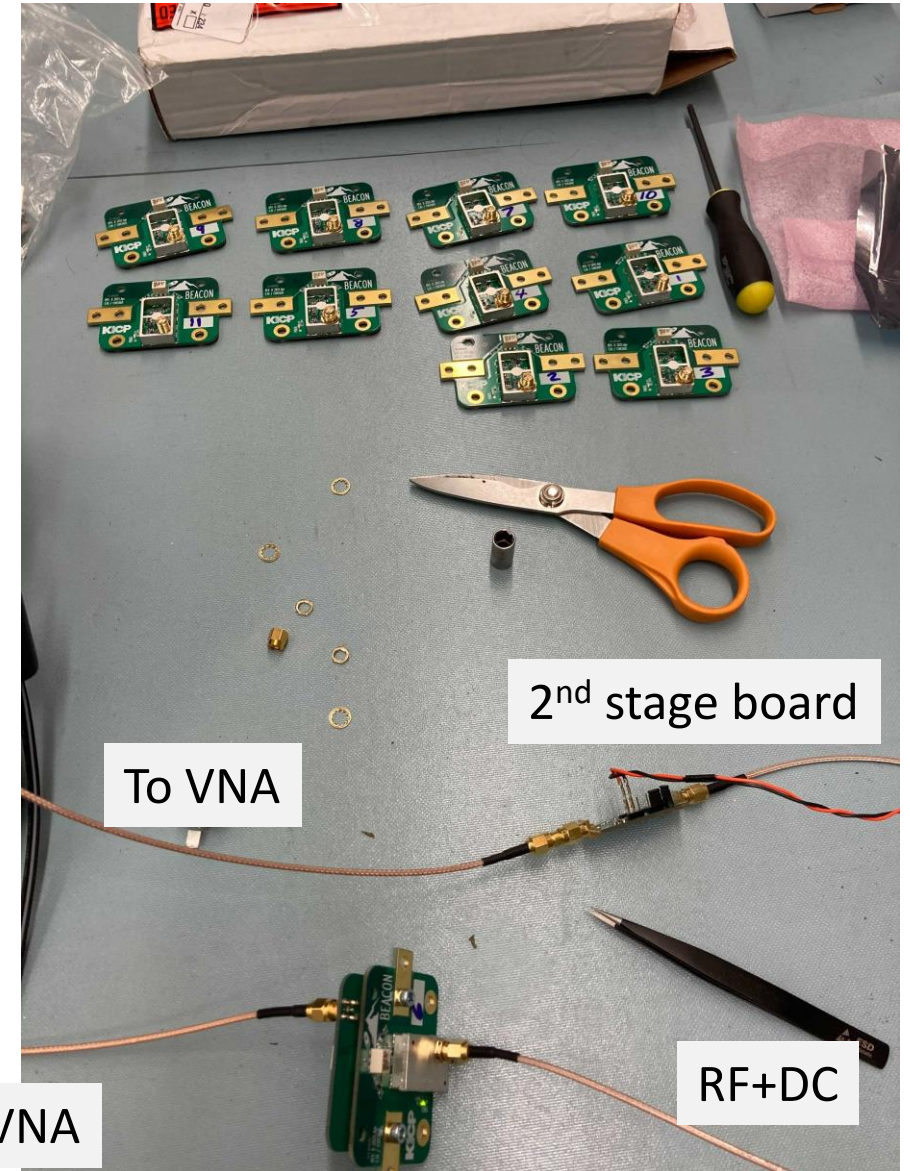
Right pin is +5V (do not exceed 5.5V here!!)

Install this jumper to enable +5V DC voltage on the input line
(REMOVE this jumper if plugging the input into a scope or network analyzer!!)

INPUT
(RF + DC,
DC can be
disabled)



OUTPUT
RF



Arts & crafts to install shield lid

- I found that using scissors to cut out little notch in bottom corner of lid worked OK. Wear eye protection and watch for sharp edges!
- Screw on SMA panel nut to secure. I found that the additional thickness of the lock washer doesn't allow the SMA connector to fully engage, so I think we should leave that off

