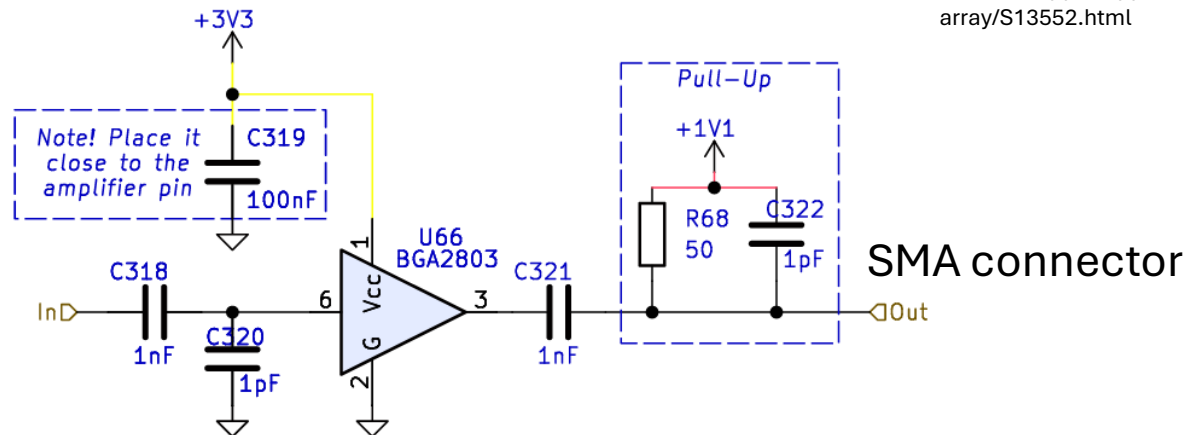
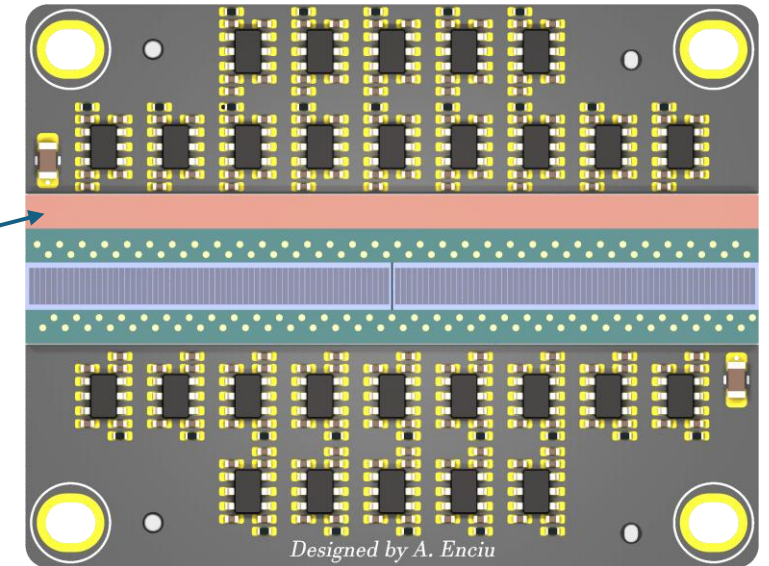


New Amplifier Based on BGA2803

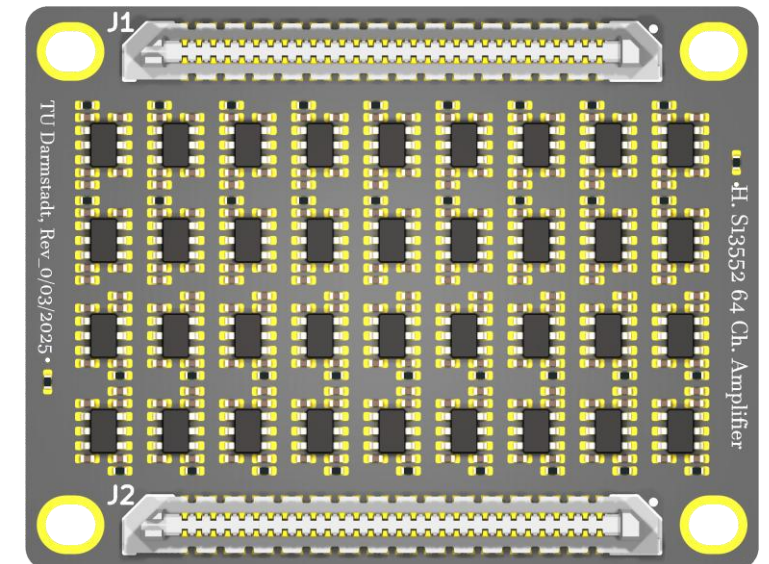


Hamamatsu S13552
https://www.hamamatsu.com/eu/en/product/optical-sensors/mppc/mppc_mppc-array/S13552.html

TOP VIEW



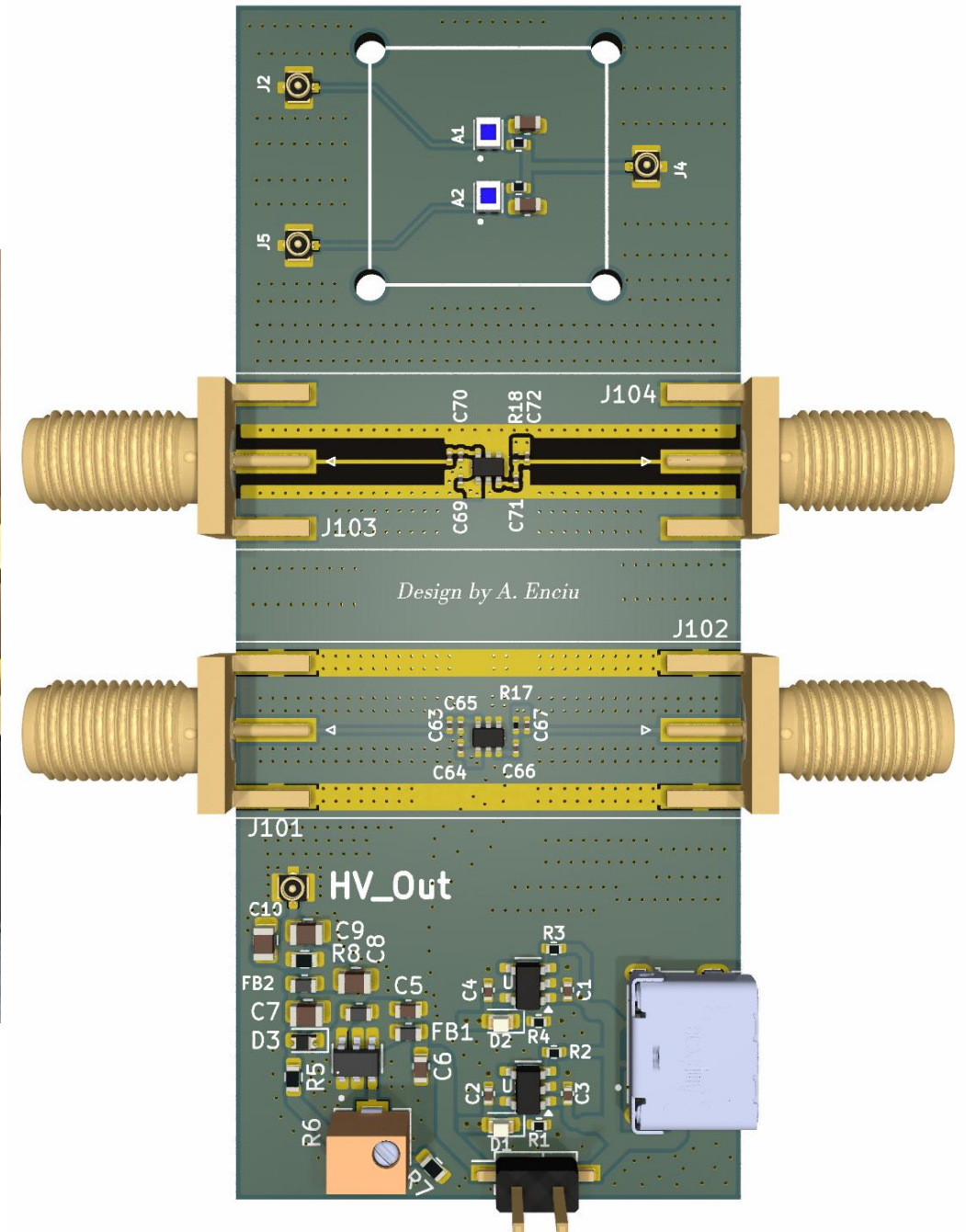
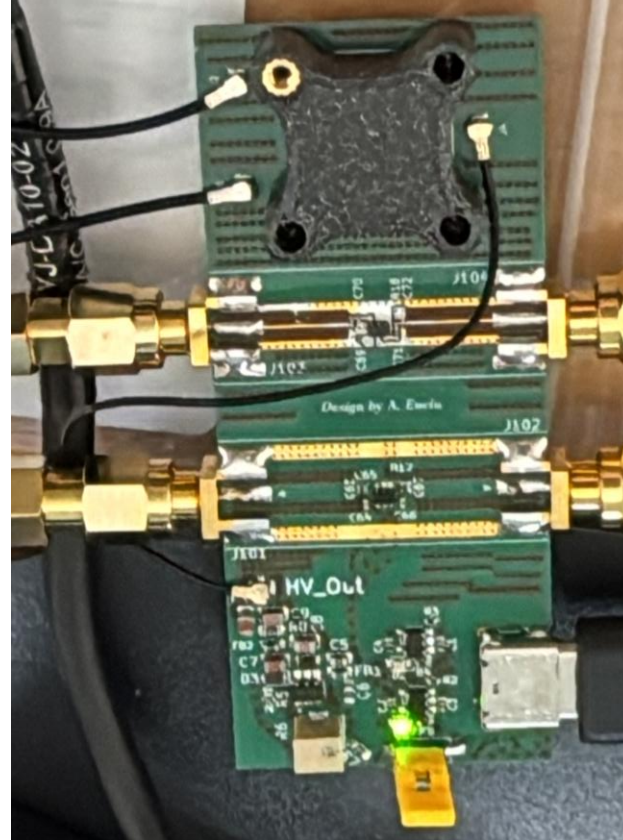
BOTTOM VIEW



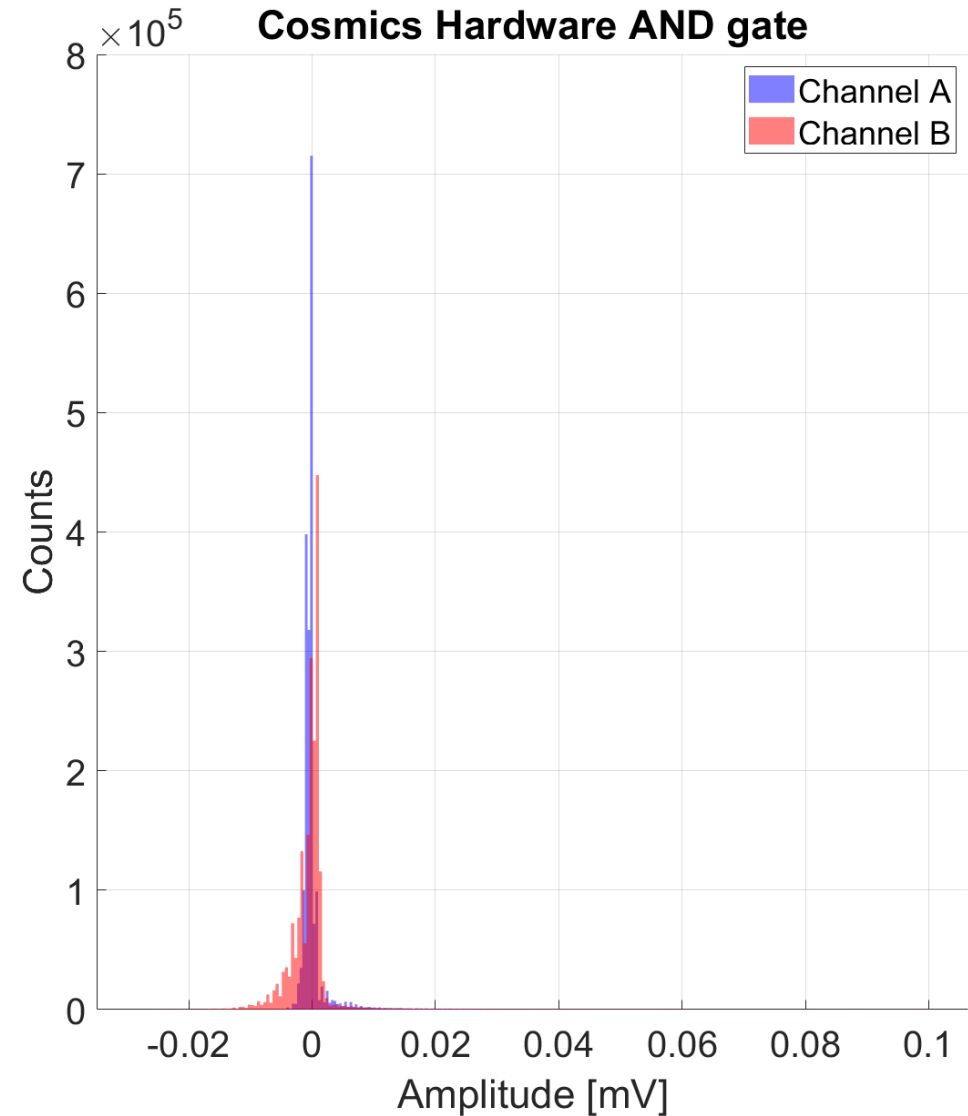
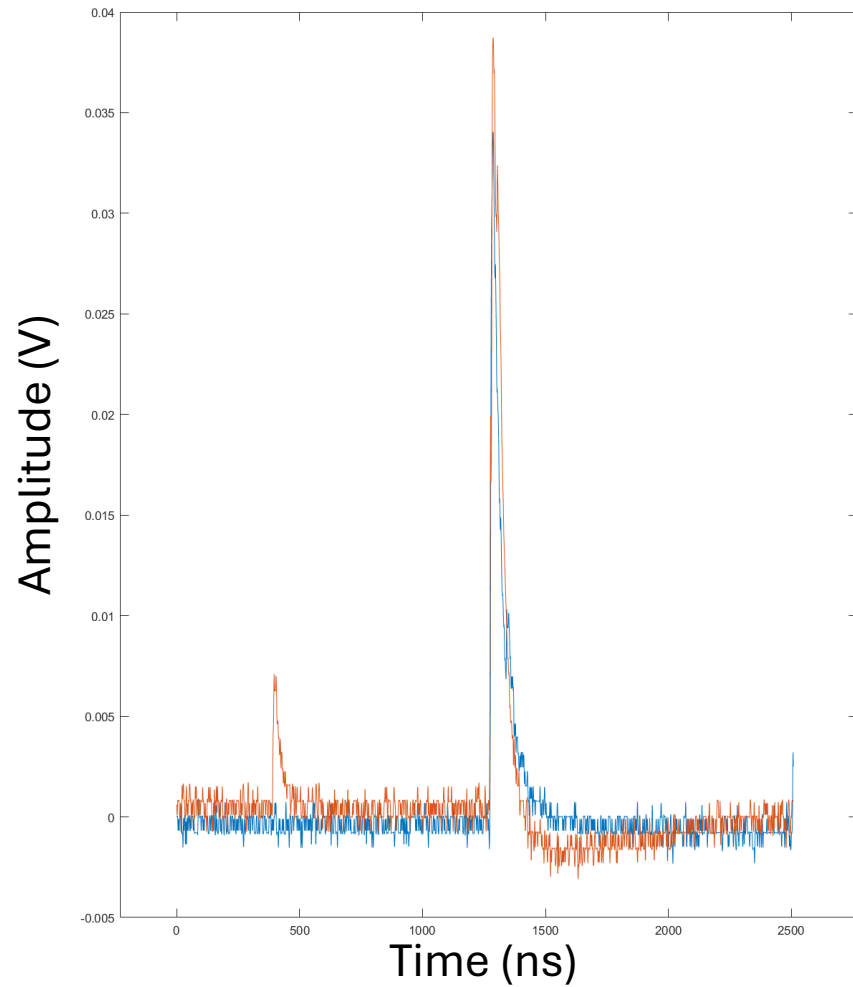
- page_4: <https://jspc29.x-matter.uni-frankfurt.de/trb/schematics/PADIWA3-all.pdf>
- W. Zhi et al 2024 JINST 19 P06011 DOI 10.1088/1748-0221/19/06/P06011
- Joshua W Cates et al 2018 Phys. Med. Biol. 63 185022 DOI 10.1088/1361-6560/aadbcd
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BGA2803 Demo Board

- 2 RF amplifiers
- 2 SiPMs
- 1 HV PSU
- Power via USB-C



Cosmics on the oscilloscope



FARICH-SMA adapter

- Replaces the original amplifier
- Signals are inserted directly in the FPGA

