

ECALp CSIS-Assembly

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****AITANA group at IFIC – CSIC/UV***



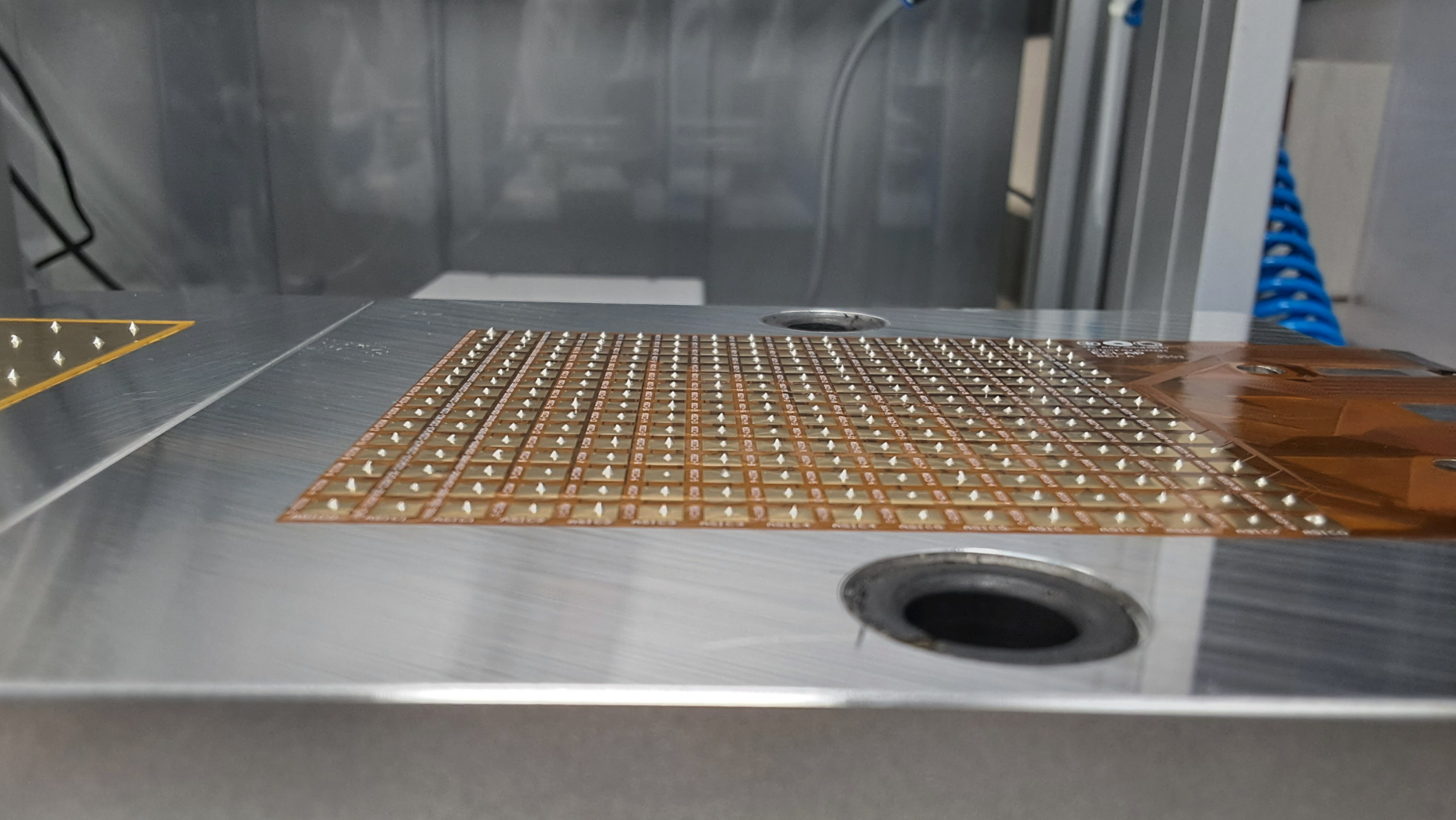
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Scan this! Here is all info

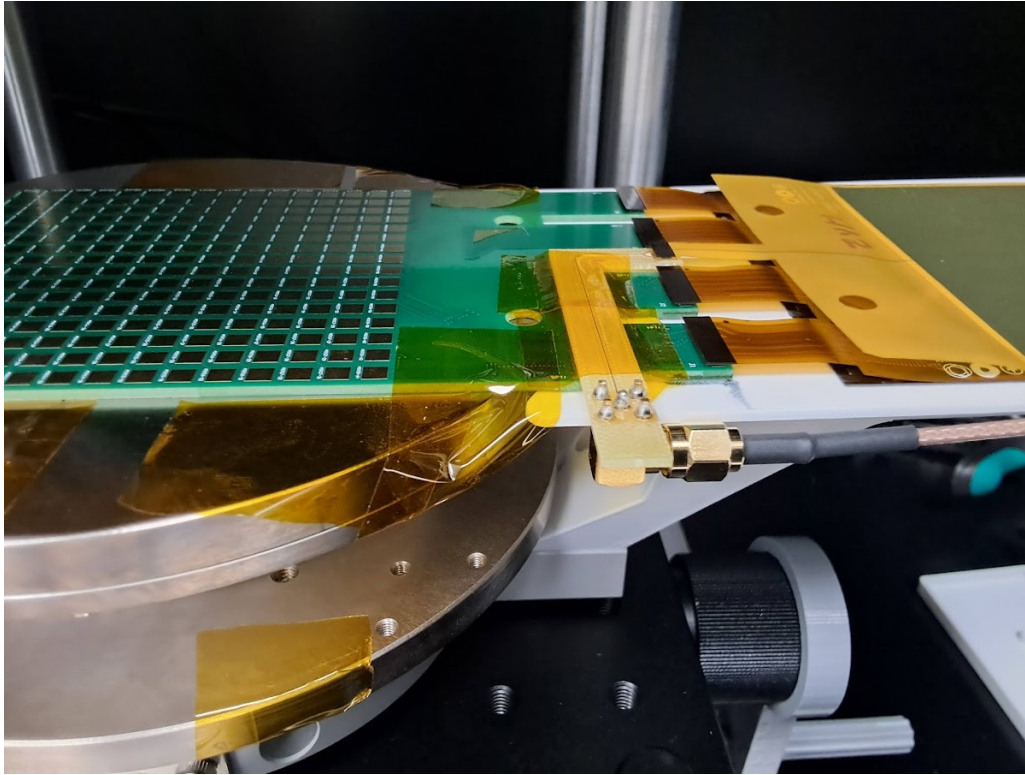
<https://cernbox.cern.ch/s/SP5aqJKfAADOeEK>

CSIS	N. points	Thick. mean	Thick. RMS	N. inside points	Thick. mean	Thick. RMS	Flatness	CF-F0 adhesive	Conductive GLUE
2025_001	25	834	18	12	825	22	427	DOWSIL	H20E
2025_002	25	826	15	12	818	13	460	DOWSIL	H20E
2025_003	25	817	22	12	808	22	462	DOWSIL	H20E
2025_004	25	856	115	12	779	27	523	3MDST	H20E
2025_005	25	912	199	12	789	57	559	3MDST	H20E
2025_006	25	865	85	12	815	25	465	3MDST	H20E
2025_007	25	998	168	12	867	48	497	3MDST	MG 9410
2025_008	25	864	26	12	851	20	418	DOWSIL	MG 9410

**But are they flat? We don't have a proper way to measure it...
experience by Warsaw and Krakow today will tell us.**



Tests with probe-card



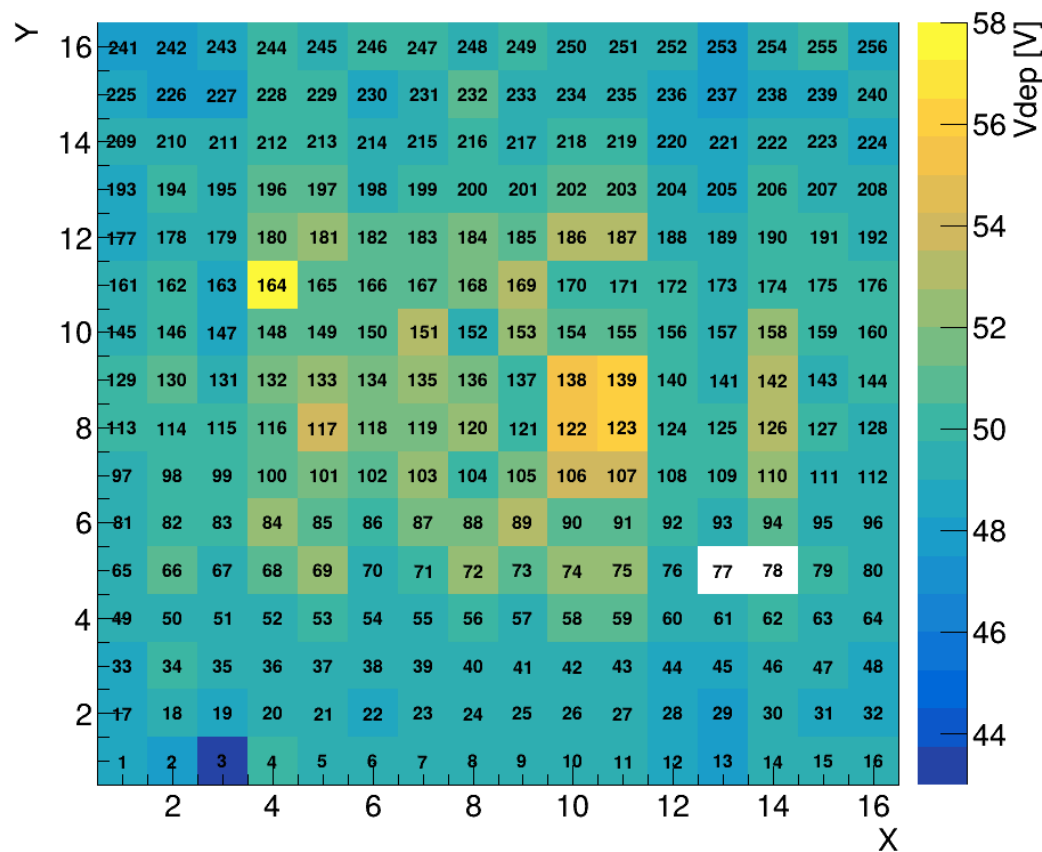
▷ PCB designed by TAU

- Exactly same routing... but connectors in the other side.
- There two rotations involved plus the fact that the upper row pins of the connector in one side, connects to the lower row... **in summary, the mapping is a mess. Work in progress!!**

▷ We managed to test all CSIS2025_001-7 (8 to be tested tomorrow).

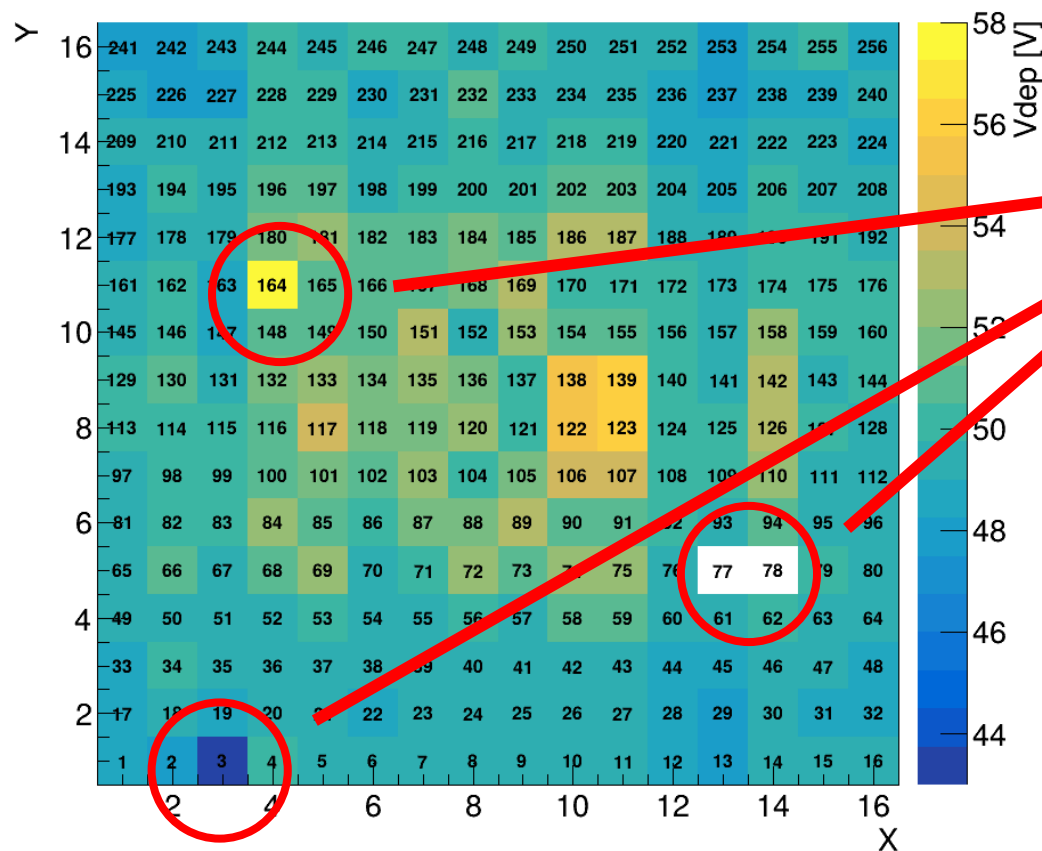
Tests with probe-card CSIS2025_001

Depletion Voltage



Tests with probe-card CSIS2025_001

Depletion Voltage

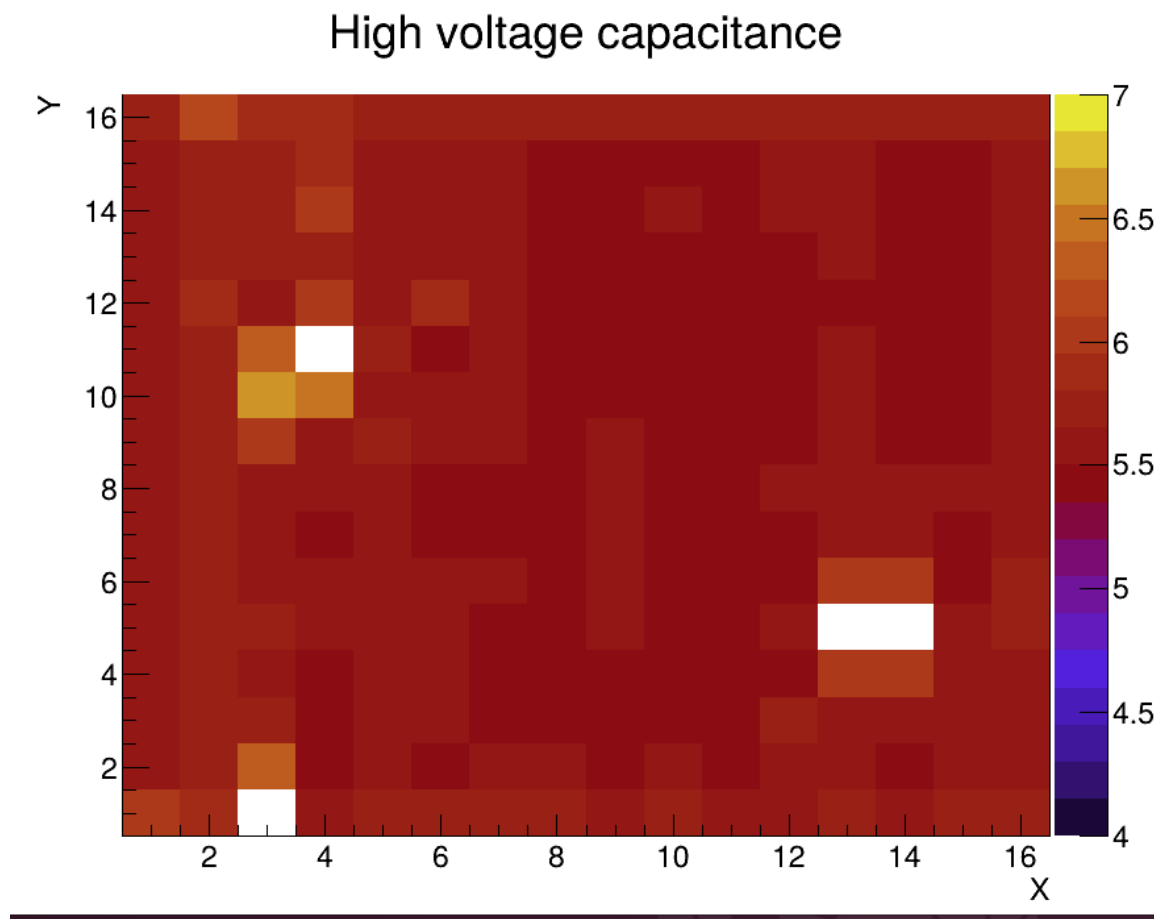


These are channels with issues on the probe-card side (damaged spring on the connectors, etc)

We also observed few channels that give always nice CV curves but always negative currents in the IV curves.

Under investigation

Tests with probe-card CSIS2025_001



Capacitance at 200V

(units in pF)

**(subtraction of probe-
card capacitance to be
improved/cross-
checked)**

- ▷ We have the material to produce only 1 more !!
- ▷ The rest of the Fanout Flex and HV flex are in custom control in Madrid.
- ▷ We hope that they arrive monday/tuesday...
- ▷ Then we will have very long 4 days to make it possible.
- ▷ Even in the most optimistic case, we won't be able to send to Poland...
 - Shall we bring them with us to DESY?
 - Send them to DESY?

