

# Preliminary Documentation to Aid Mounting Mesh sensors

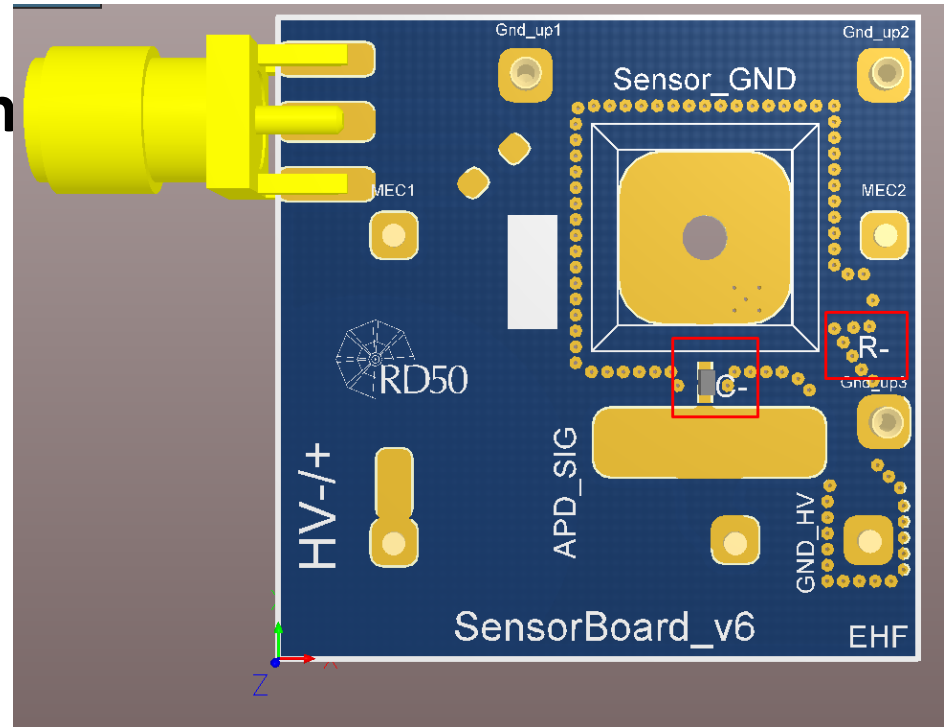
This is draft material for review

(S.White, E. Hidalgo, M.Vignali)

Please comment

# HV- Bias

- **Readout from the mesh**
- C- removed
- R- shorted out (0 ohms)
- Wire Bond from mesh to APD\_SIG
- Note R- is on the bottom side of SensorBoard

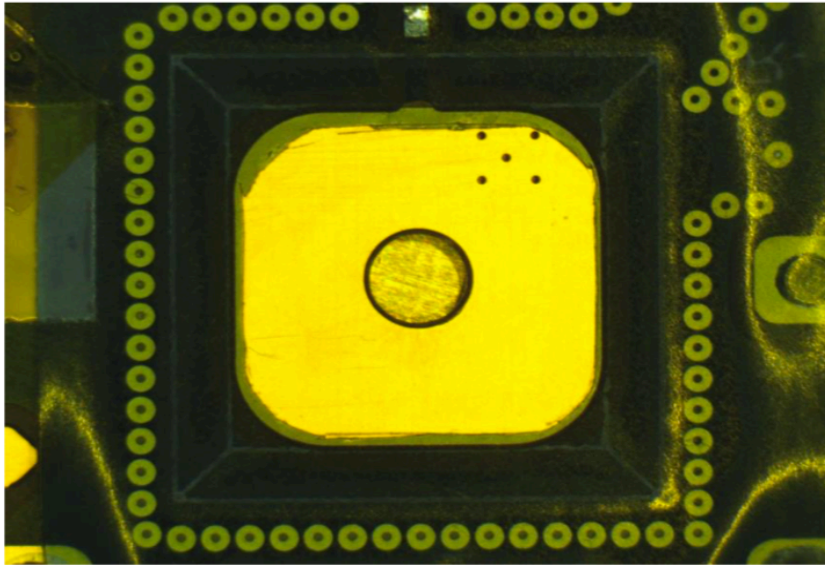


# Both cases

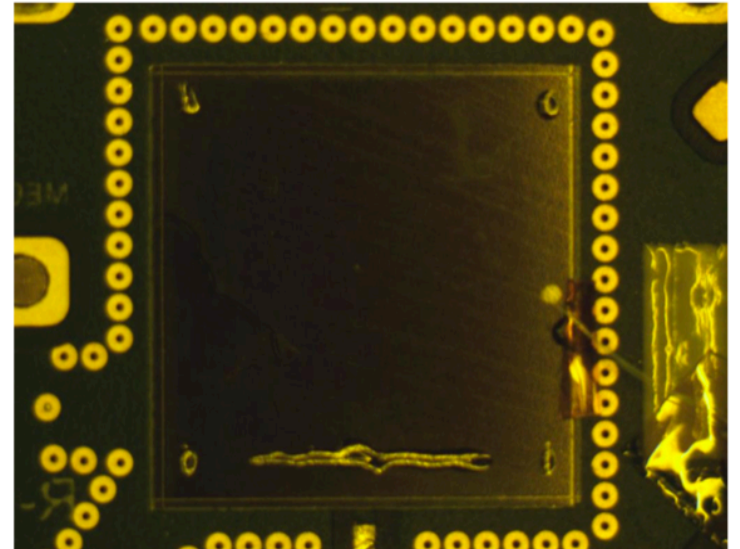
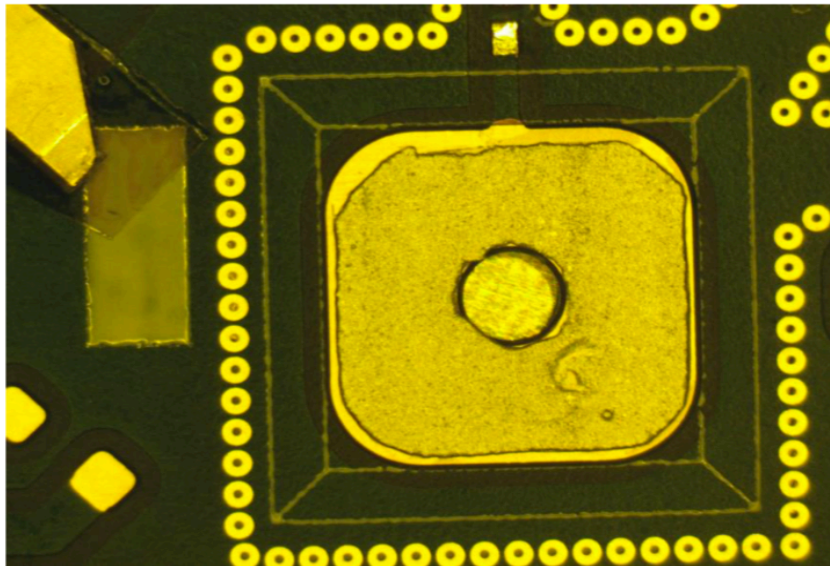
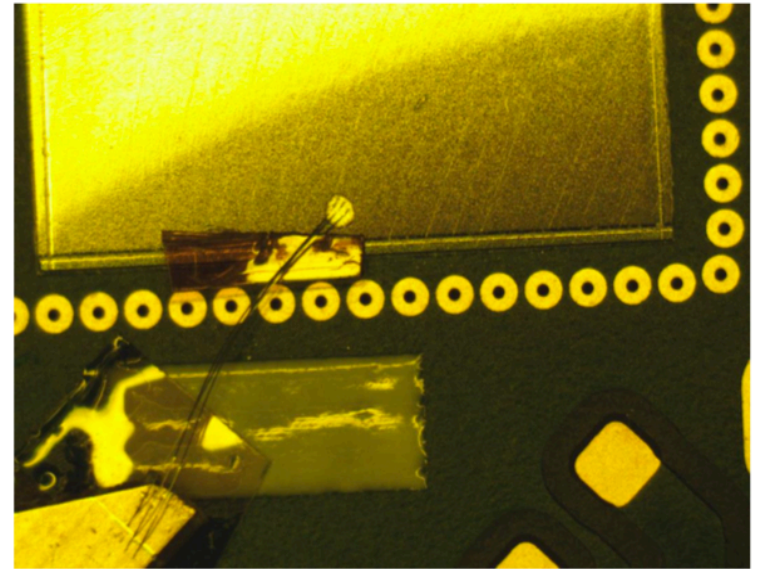
- Remember It is necessary to install a Quenching resistor between the power supply and the sensor.
- In following, Bert's slides seem consistent w above from Eduardo

## Photos from Bert (documenting what he did on first sensor)

- **50um Thick Silver Epoxy Mask for Backside Contact**

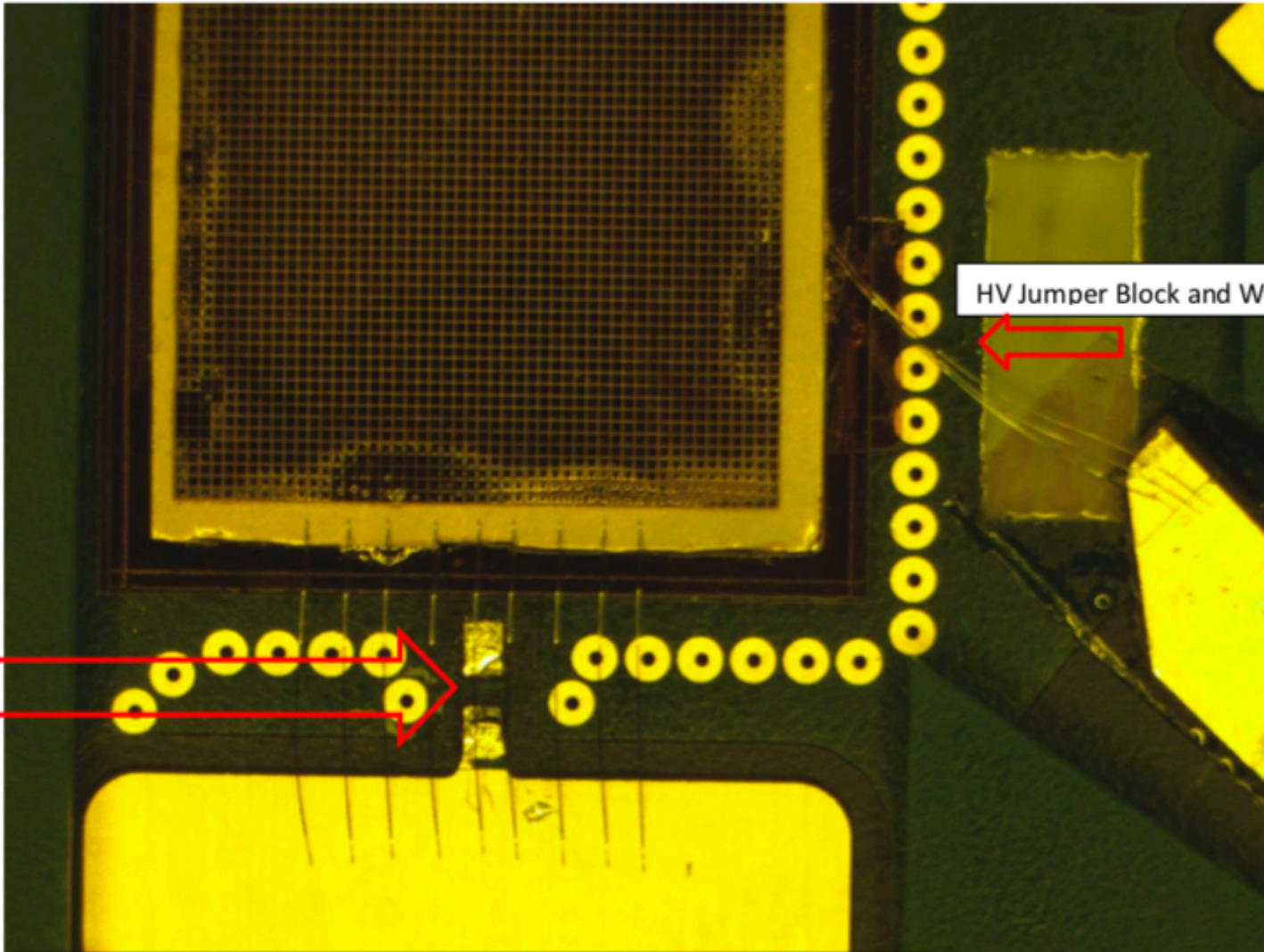


Top Side Contact Wirebonds with kapton isolation





## Arladyte 2011 epoxy for screen mounting

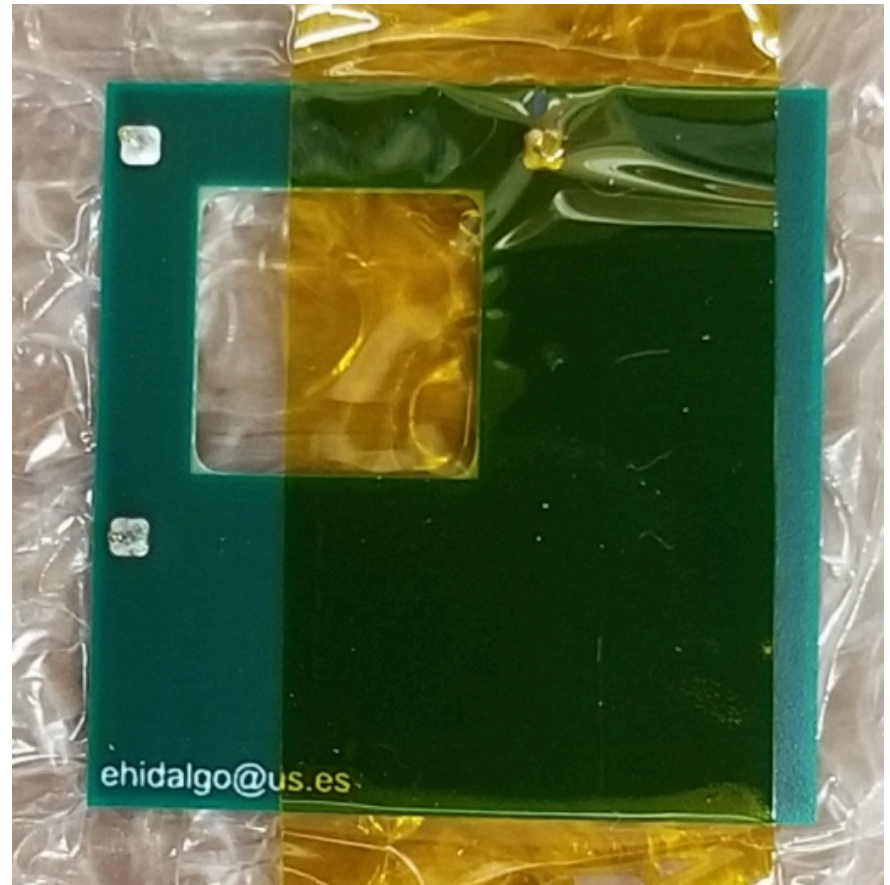


HV Jumper Block and Wirebonds

Coupling Cap Removed & Wirebonded Input

# The pc boards

Once the sensor is mounted these additional boards are stacked on the Sensor board. They provide protection of the bonds and should make it easy to try out schemes of epoxy filling for better HV stability.





# Breakout Board

We also provide this board to enable simple checks independent of Amplifier -ie including that I-V curve well behaved.

