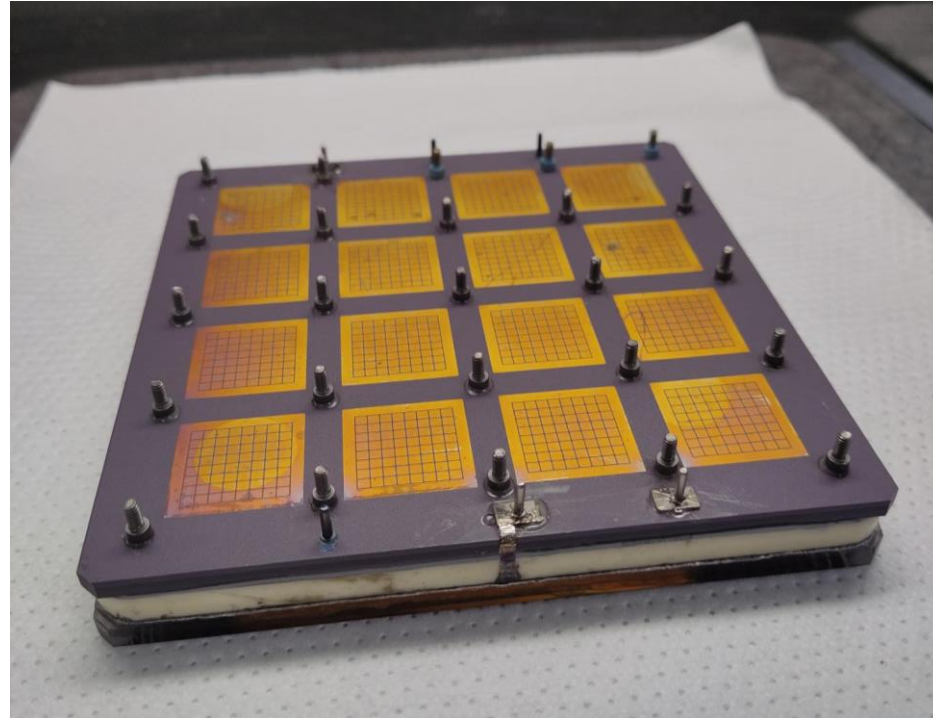


EIC HRPPD HV connection options

A. Lyashenko

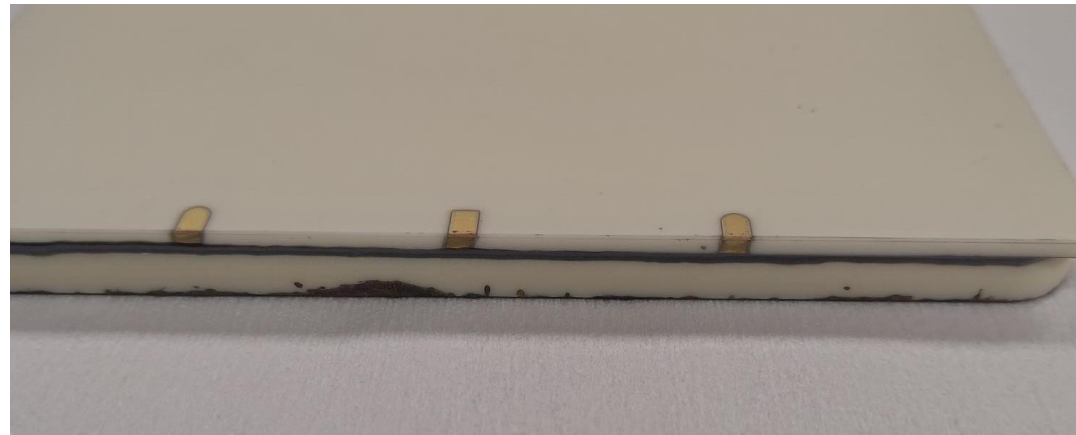
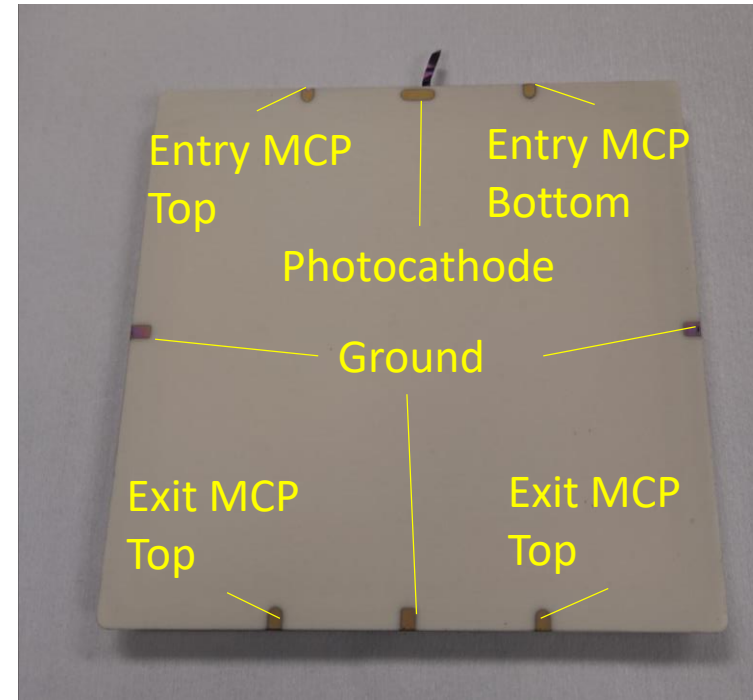
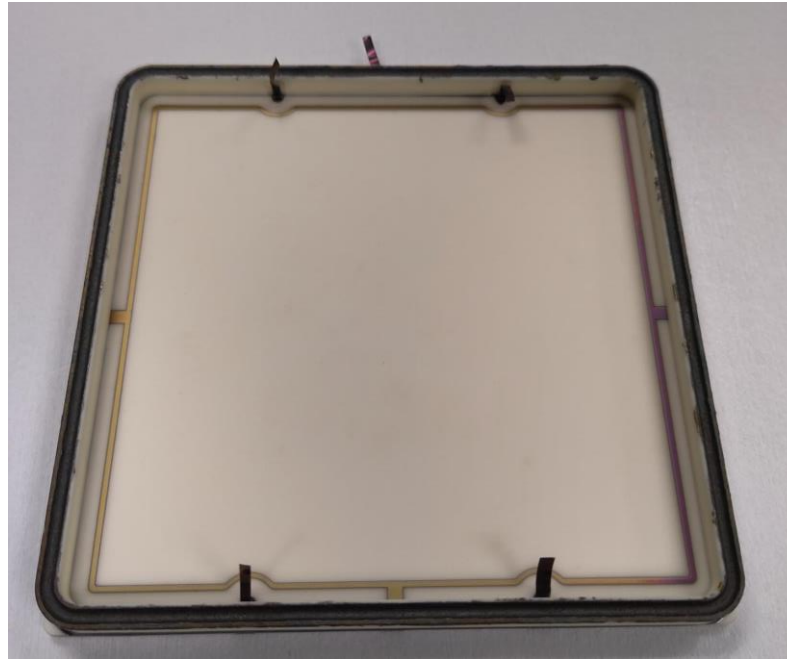
12-09-25

Motivation



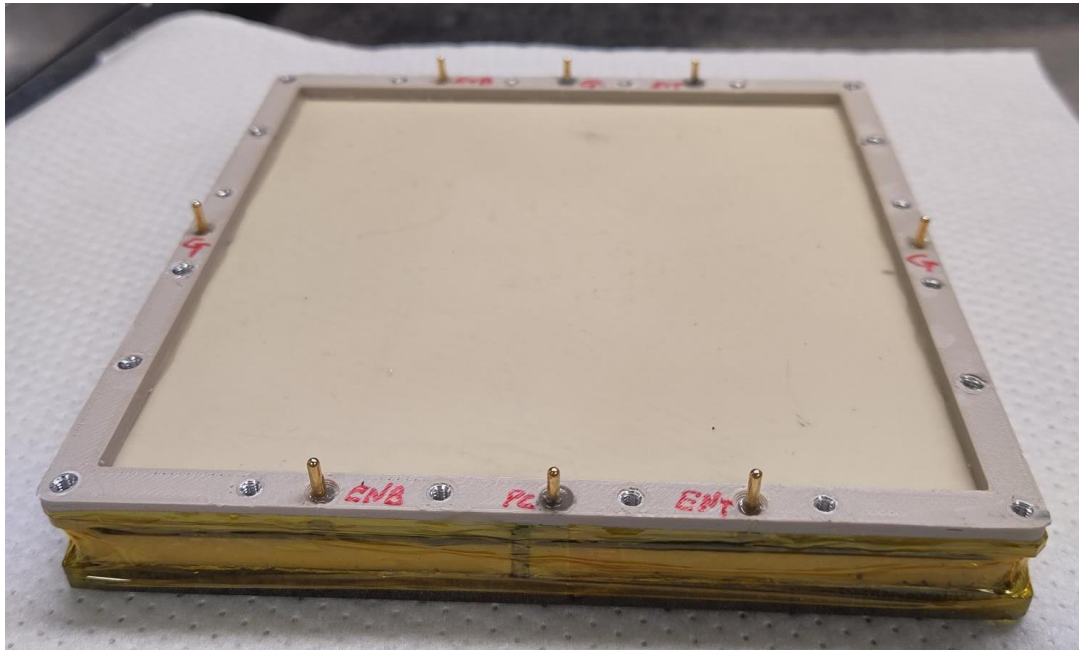
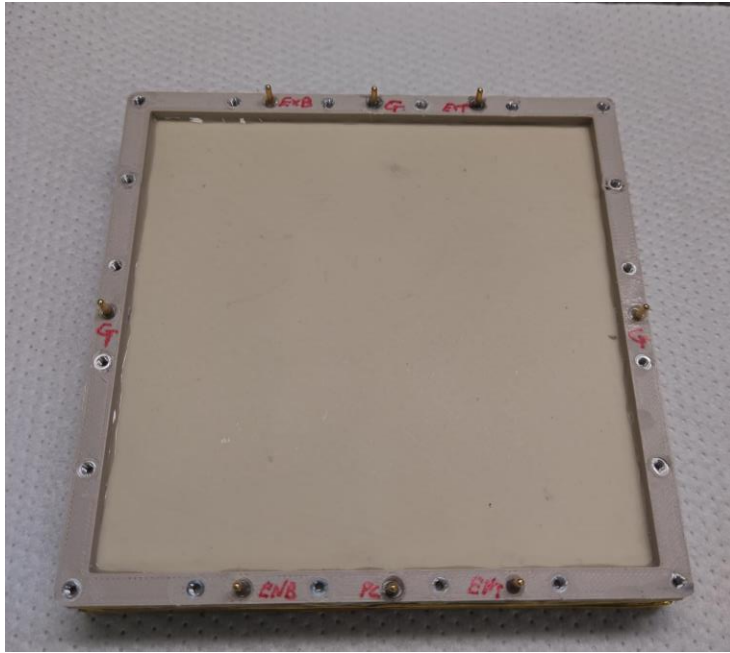
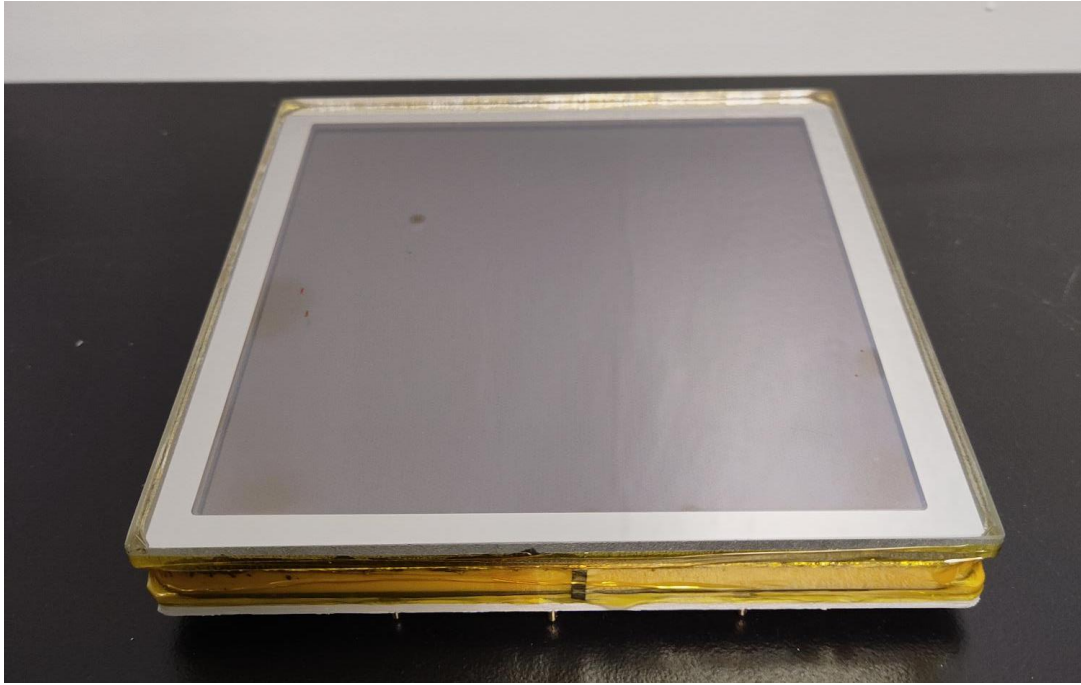
- Getting rid of tarnishing
- More reliable HV connections
- No brazed parts at the anode

CC-HRPPD LTA

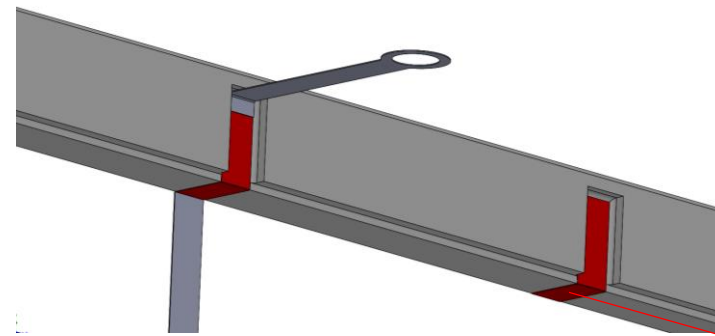
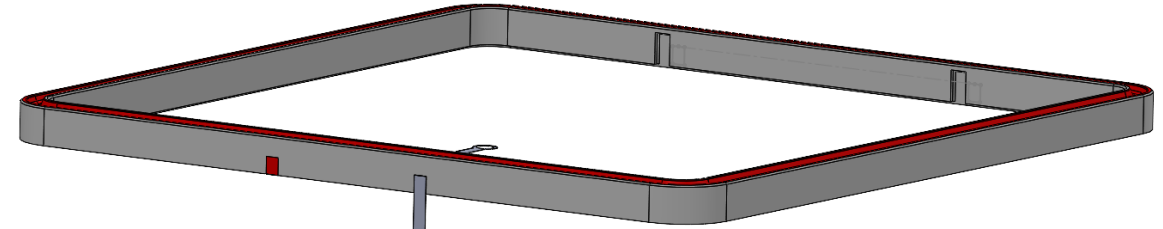
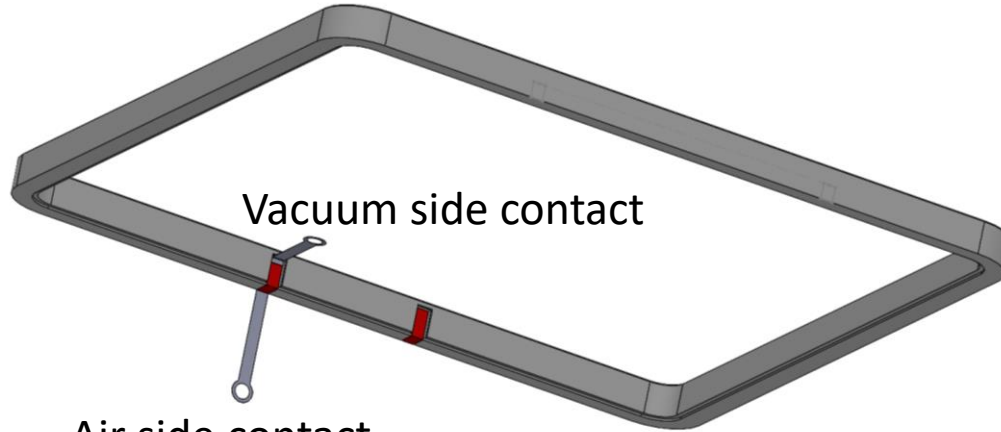


Thick film edge wrap metallization example

CC-HRPPD

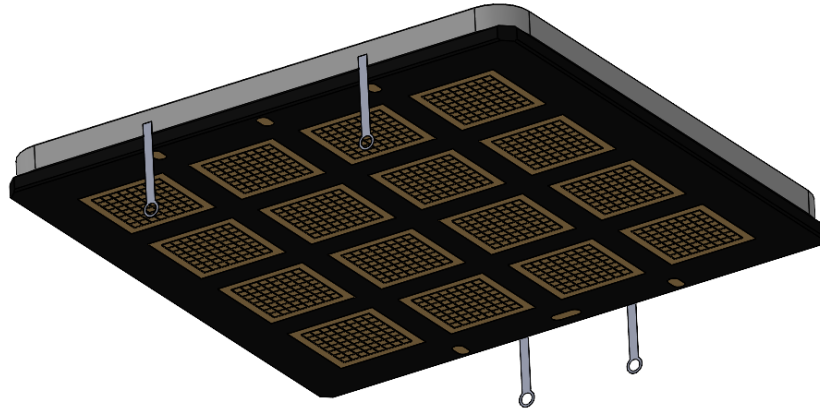


DC-HRPPD: edge wrap metallization

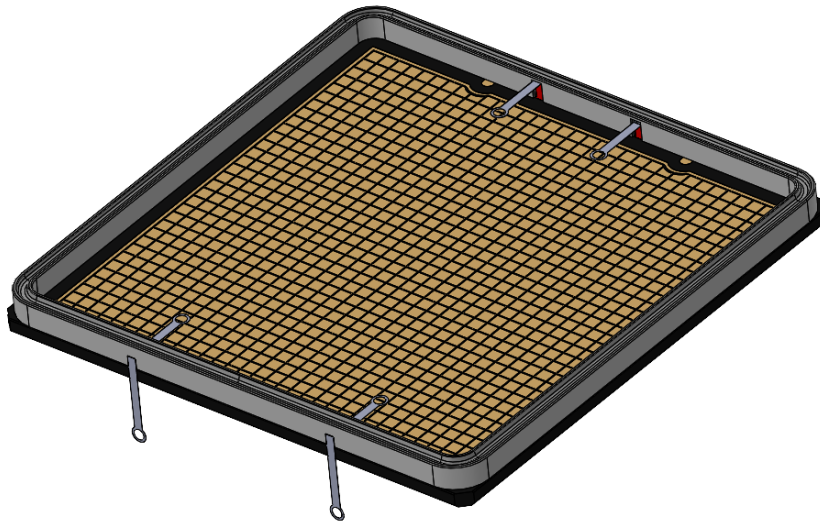
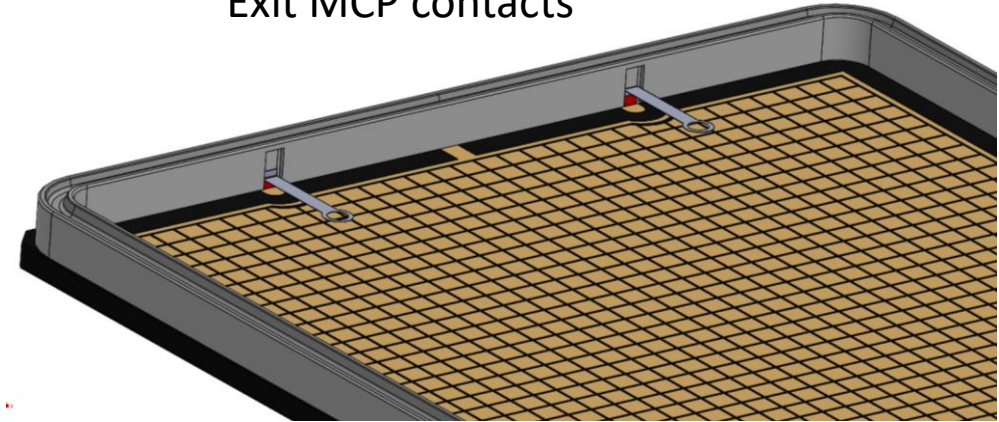


Thick film edge wrap metallization

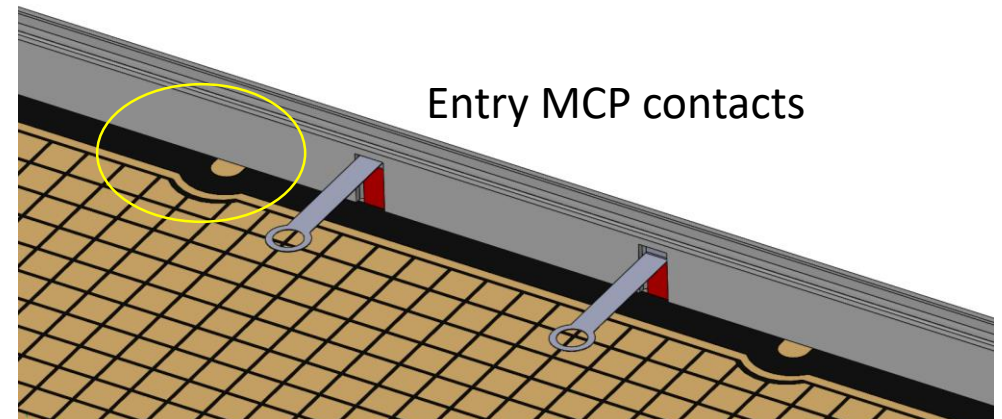
DC-HRPPD: edge wrap metallization



Exit MCP contacts

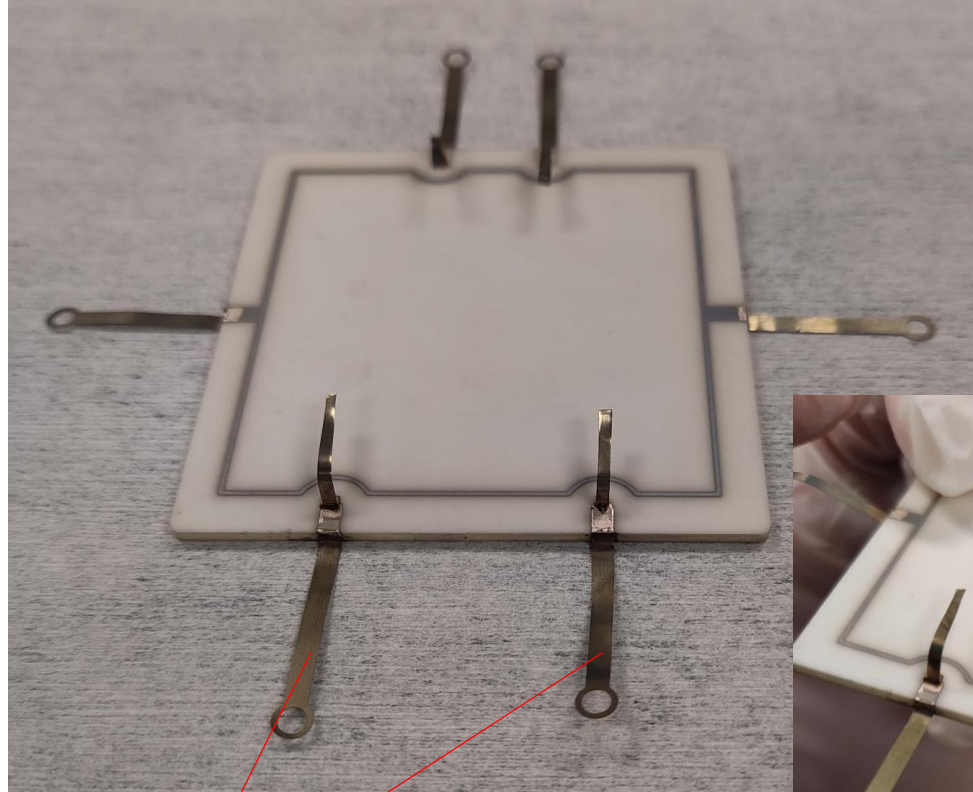


Anode HV taps can be removed

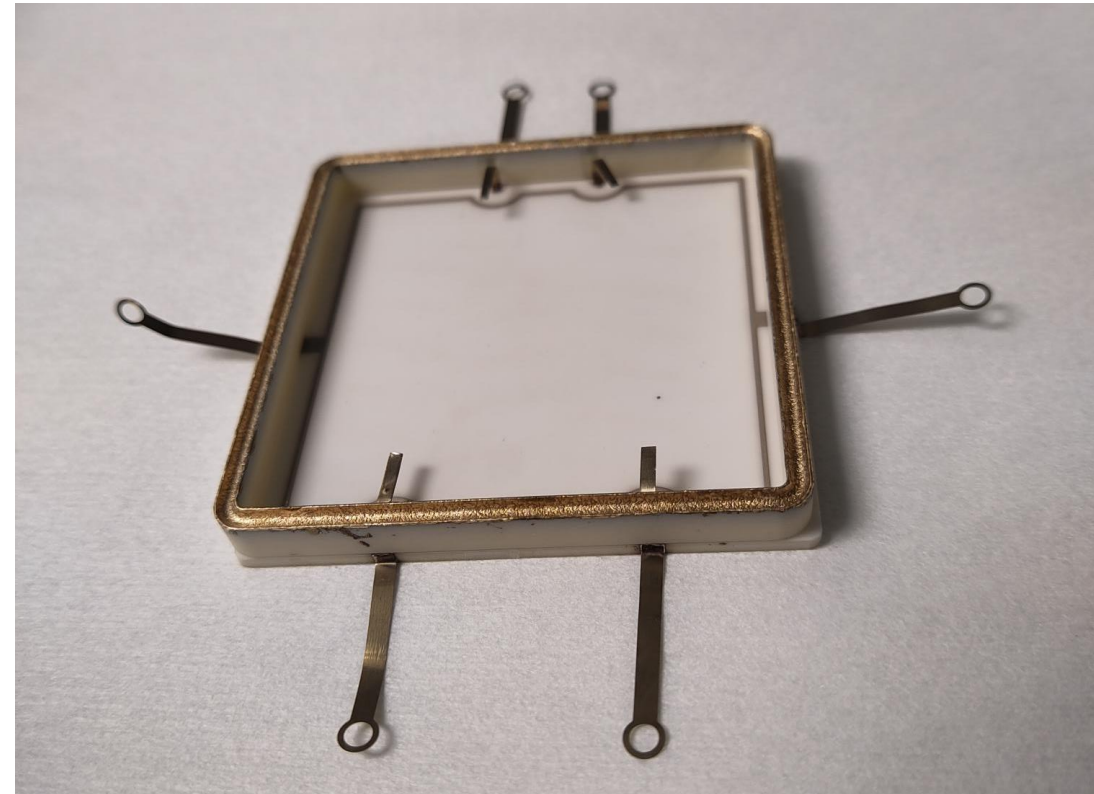
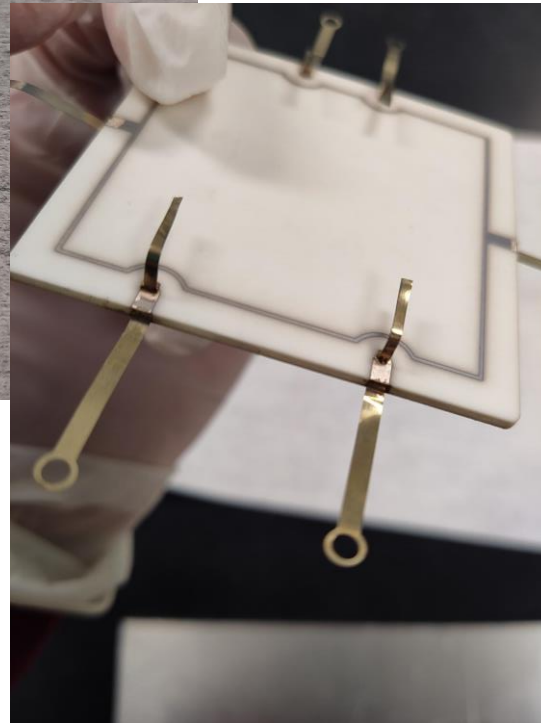


Entry MCP contacts

Edge wrap metallization for 56 mm detector



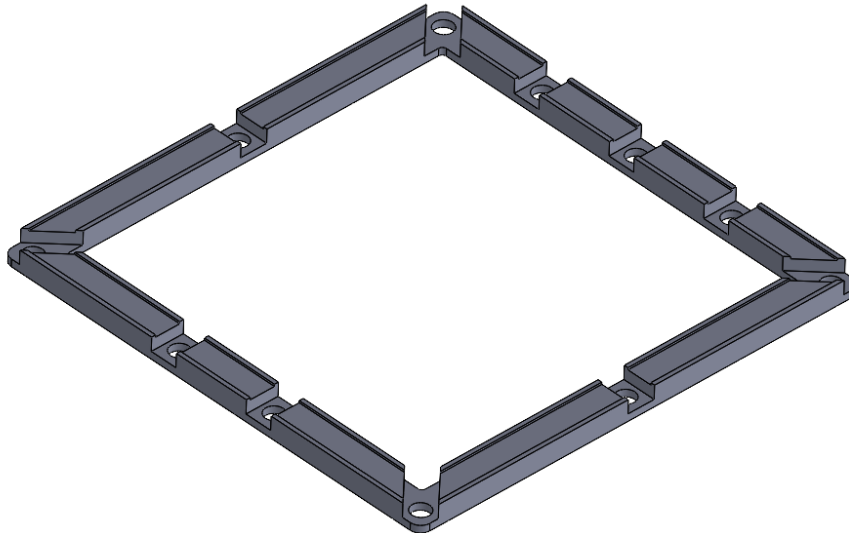
Brazed contacts



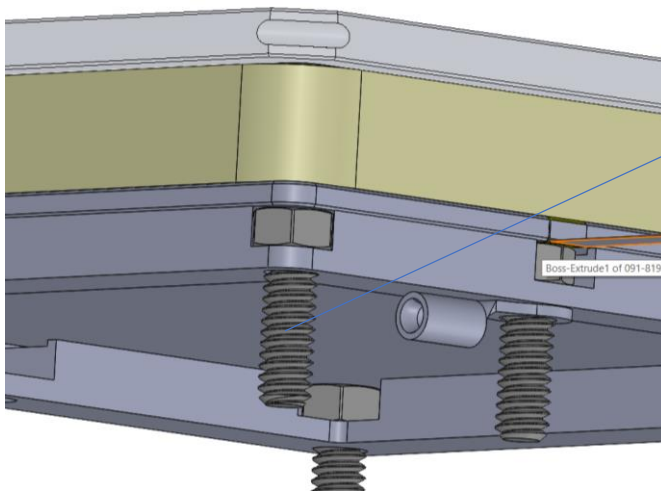
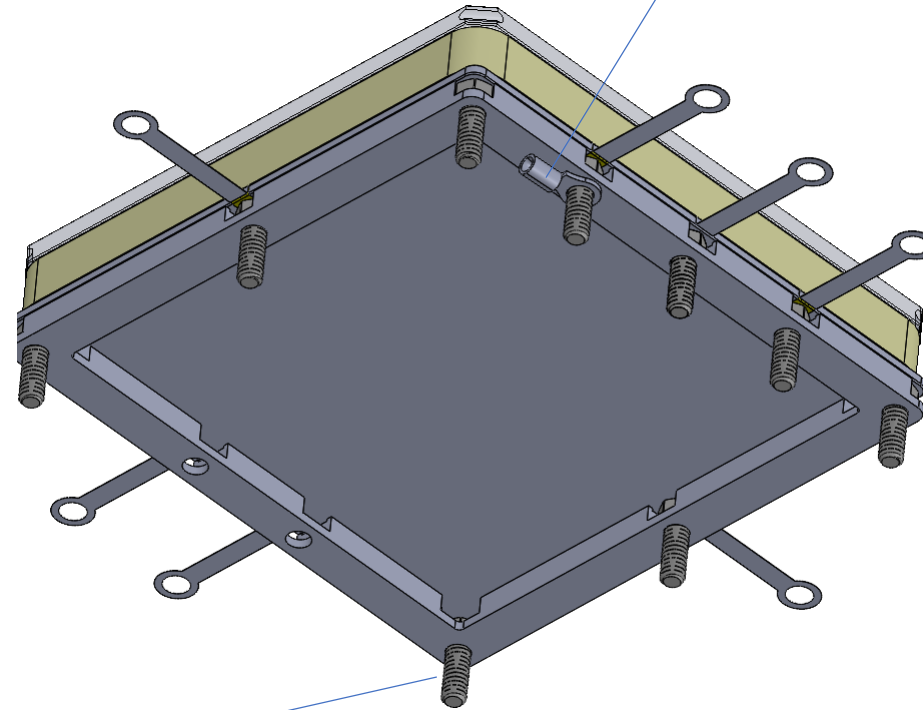
Detector package with the sidewall

56 mm detector HV connectivity

Alumina Frame



Ring terminal connectors



Product ID A25600HEX0.250

2-56 x 1/4" Alumina Hex Head Bolt

Price: \$10.64

Quantity Pricing

Quantity	Price Each
25-49	\$9.58
50-99	\$9.04
100-249	\$8.51
250+	\$7.98

Quantity:

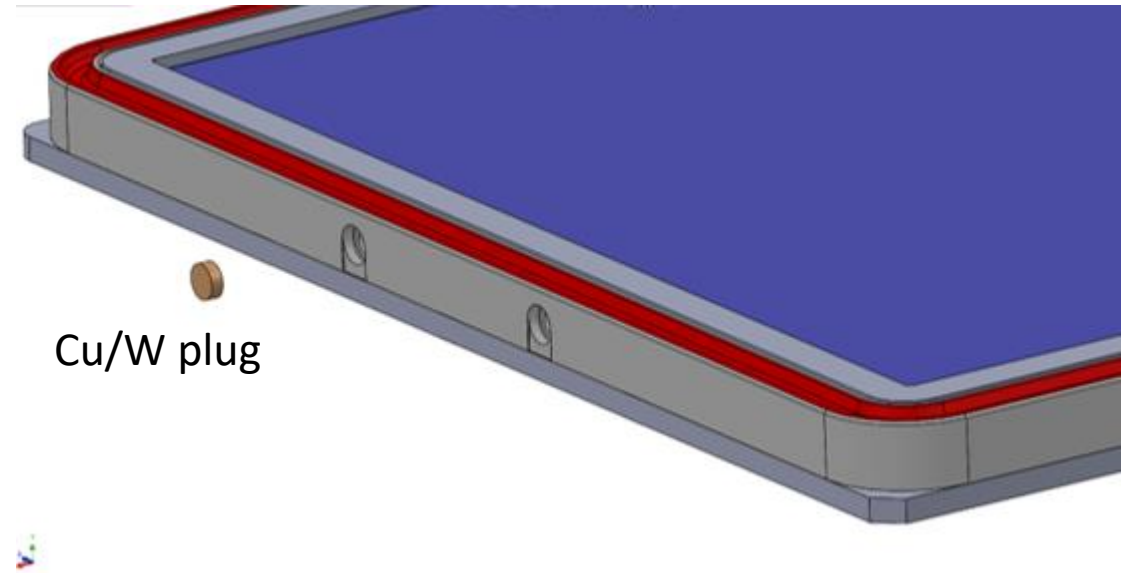
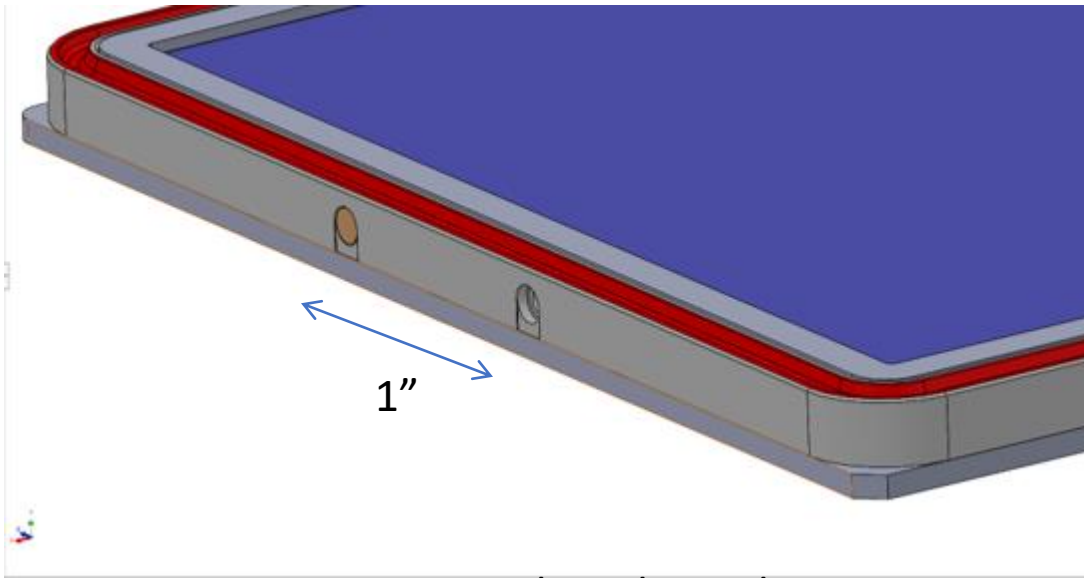
[Add to Cart](#)

Fritted assembly

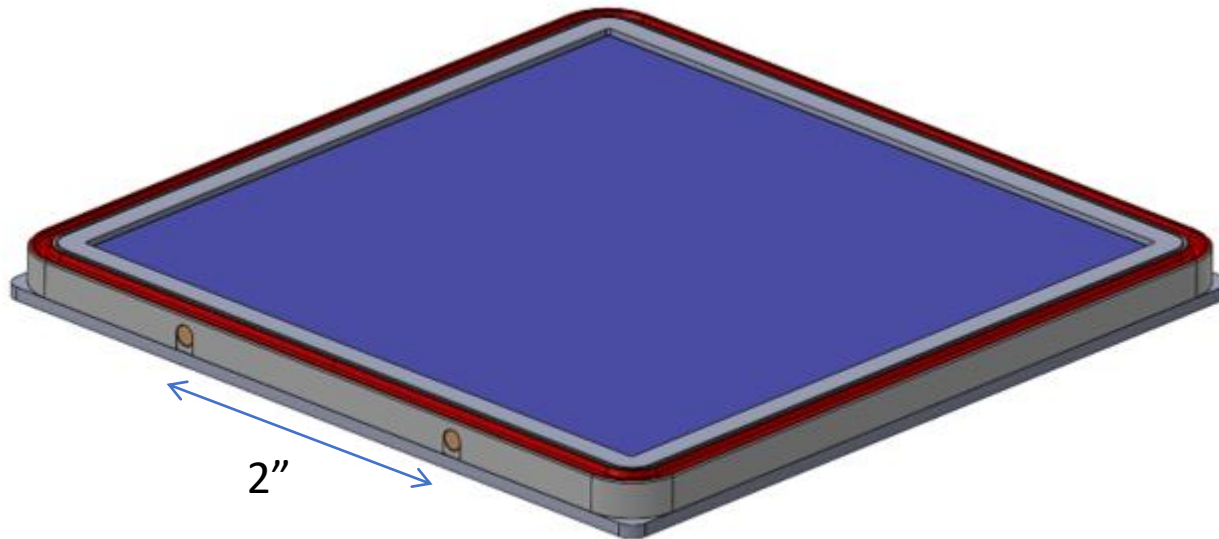
M2 or 2-56 alumina screws

Ideas for DC-HRPPD: brazed through contacts

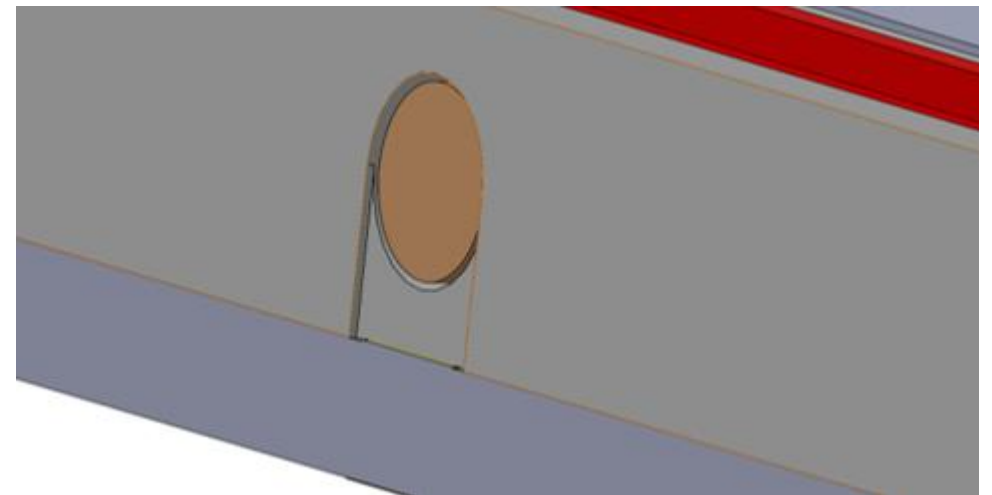
One side



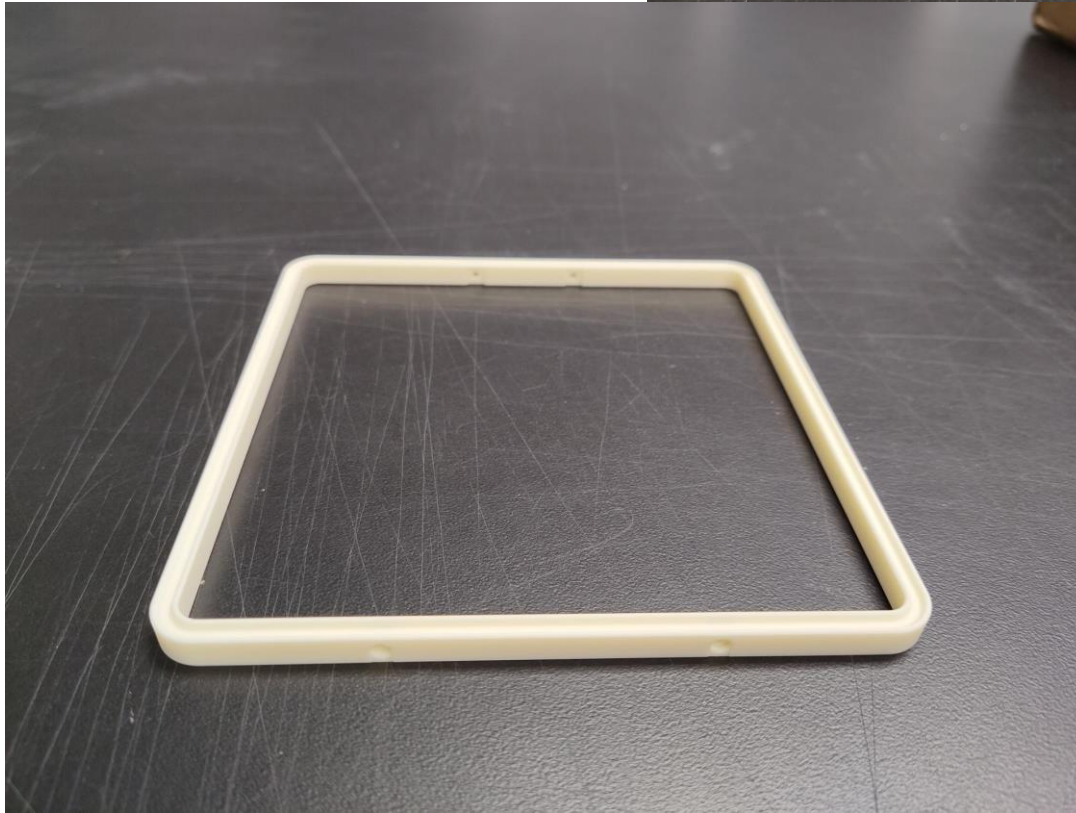
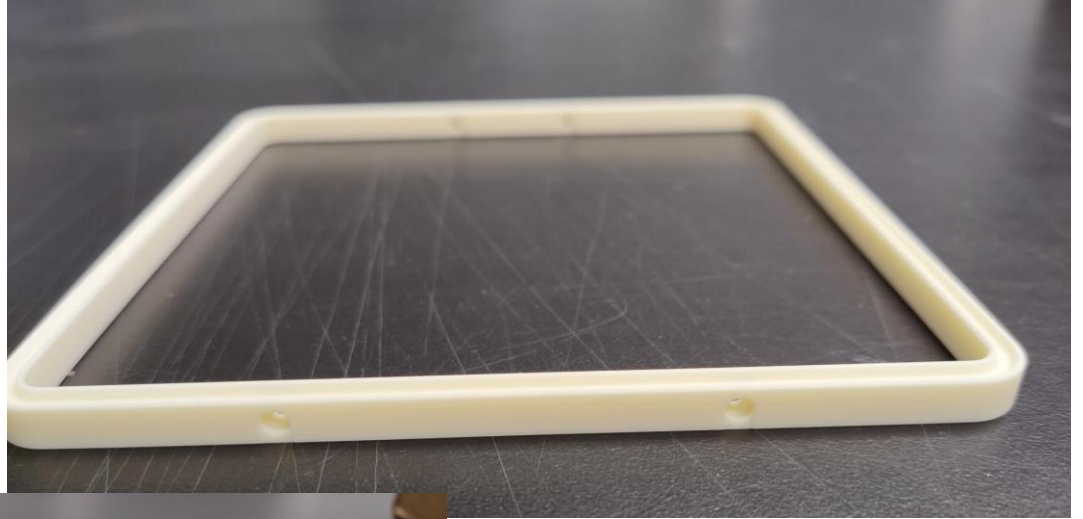
The other side



Recess for HV strip contact



Sidewall for brazed through contacts



Benefits

- No anode brazing → no anode tarnishing
- Reliable contacts → can use screw-on loop contact
- Decoupling HV and signal PCB
- No stainless to copper shim modification required