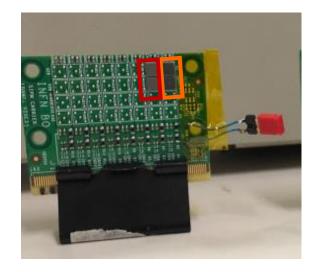
UPDATE on Direct current annealing

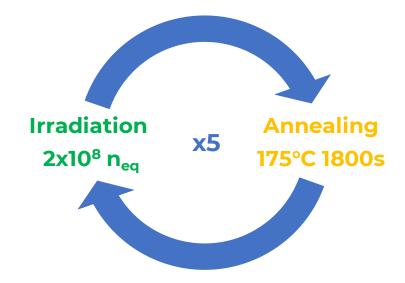
HAMA1L board equipped with **HPK S13360** irradiated for a total of **10⁹ n**_{eq}



2 kind of direct current annealing:

- Online for the 3050 (50um spad)
- Offline for the 3025 (25um spad)

Online: irradiation divided in 5 cycles interleaved by direct current annealing @175°C for 30 min (2.5h total)

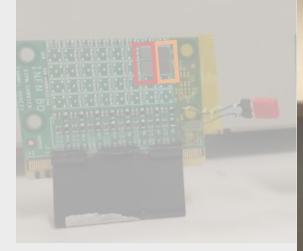


Online: two phase annealing in Bologna. @175°C for 30 min and 175°C for 2 h (**2.5h** total)



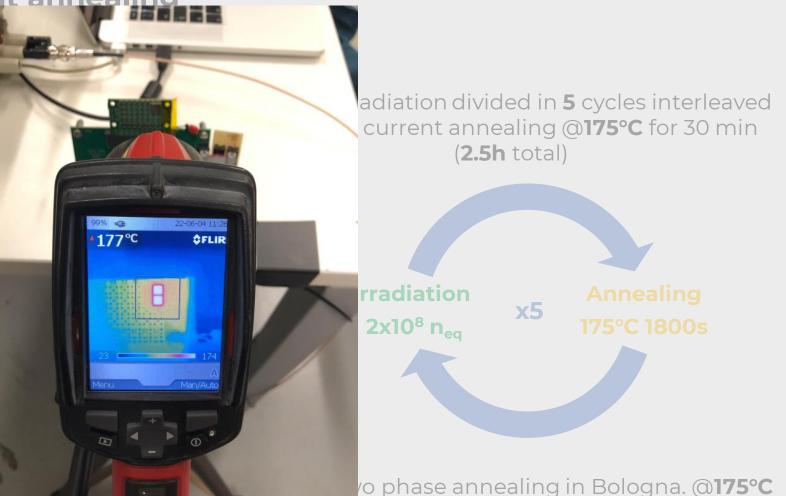
UPDATE on Direct current annealing

HAMA1L board equipped with **HP** irradiated for a total of **10⁹**



2 kind of direct current annealir

- Online for the 3050 (50um sp
- Offline for the 3025 (25um sp



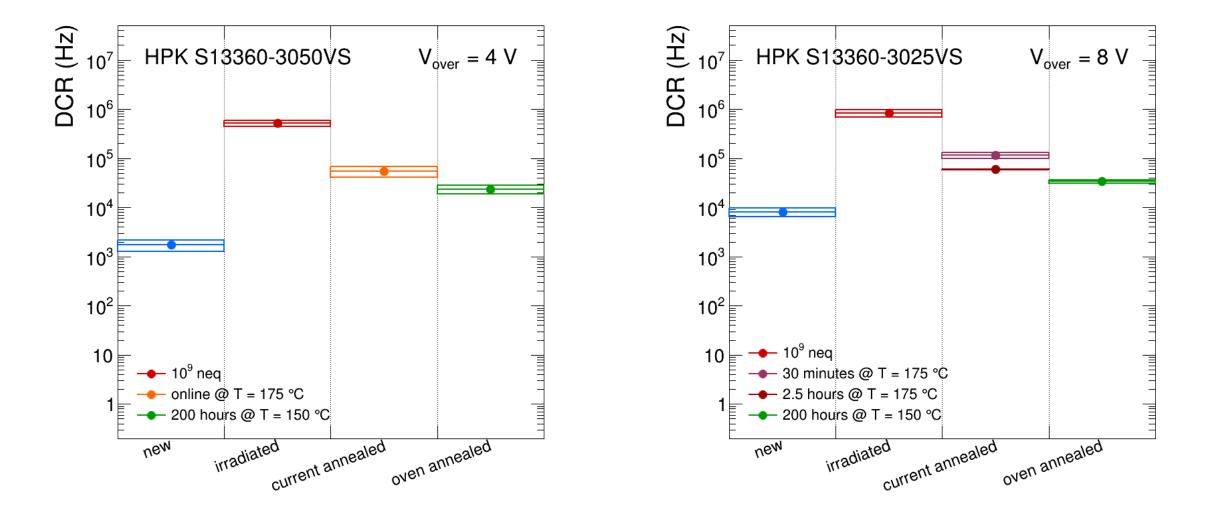
for 30 min and 175°C for 2 h (**2.5h** total)

Temperature monitored via a FLIR thermo-camera calibrated with Luca Barion

2% uncertainty

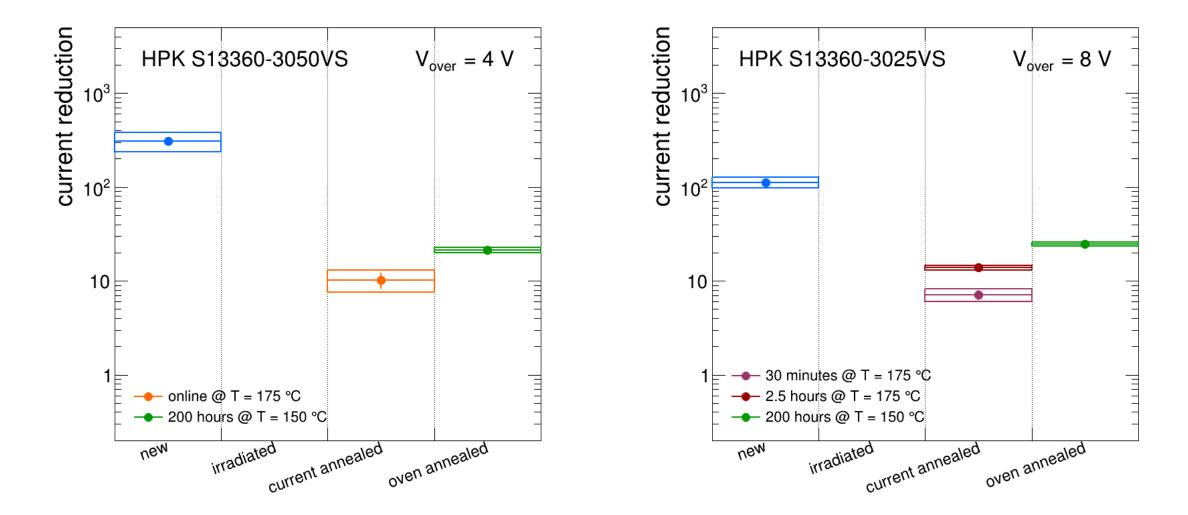


Results: Direct current annealing (DCR)



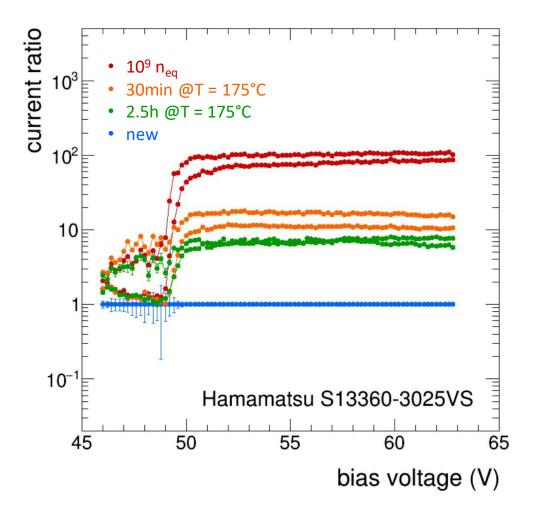


Results: Direct current annealing (Current reduction)





Results: Direct current annealing 3025 details



In the first 30 min of annealing, a factor \approx 7 of dark current is recovered. In the next 2 hours, only a factor \approx 2 is recovered but the homogeneity is far better

