

Leonardo Flip-chips tested in Firenze, September 2019

w30 Stepper 2018; w2 and w5 mask aligner 2017

T sensors ~ 30 - 40 °C

	It broke at 25 V							It broke at 50 V	
Breakdown	Early	Early	Early	> 25 V	> 25 V	> 25 V	> 50 V	6 V	45 V
Current @ 5 V	7.5 uA	30 uA	18 uA	1.9 uA	0.8 uA	0.7 uA	0.5 uA	0.45 uA	0.46 uA
Type	25x100 1E	25x100 1E	25x100 1E	50x50 1E	25x100 2E	25x100 1E	25x100 1E	50x50 1E	50x50 1E
Wafer	w30	w30	w30	w30	w5	w5	w2	w2	w2
Name	D4.1	D11.2	D4.2	E3.1					
Noise @ 5 V	80e	80e	73e	80e	98e	85e	83e	78e	85e

All the three w30 25x100 1E became BAD. Two of them were “good” up to 25V then they turned bad with a huge current increase and were not recoverable

Genova results are similar: the 25x100 1E sensors have early BD (D11.3 and D5.3)

Noise measurements: 50x50 and 25x100 1E are very close. 25x100 2E is ~ 15% higher than 1E. Good point!