Test board + DUT

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18cm x 14cm



7cm x 7cm



4cm x 4cm



1

Mother board – holes size and position



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Measurement setup



Plans for the irradiation campaign

- Pre-irradiation characterization (Pavia): DCR (A1, A2, A3, AAQ (1 hold-off time), ASSTI, 3 ASiPM, 3 different V_{EX}), break-down voltage, cross-talk (A1, A3, ASiPM, 3 different V_{EX}), after-pulsing (A2, AAQ (4 hold-off times), 3 different V_{EX})
 - Irradiation campaign (Torino) 5 steps (5 days, Monday to Friday)
 - o 100 krad (SiO₂), 300 krad, 1 Mrad, 3 Mrad, 10 Mrad
 - Characterization after each step (limited set of measurements: DCR (A1, A2, A3, ASSTI, ASiPM, 3 different V_{EX}), cross-talk and after-pulsing based on estimation of measurement time
 - Post-irradiation characterization (Pavia): DCR (A1, A2, A3, AAQ (1 hold-off time), ASSTI, 3 ASiPM, 3 different V_{EX}), break-down voltage, cross-talk (A1, A3, ASiPM, 3 different V_{EX}), after-pulsing (A2, AAQ (4 hold-off times), 3 different V_{EX})