

PD #1

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 14.082 MOhm

Series Resistance (R_s):

Elem1: 8.3 Ohm

Junction Capacitance (C_{pd}):

Elem1: 219.9 pF

Dark Current [nA]:

Elem1: 6.74 nA

Dark Noise:

1~10Hz avg

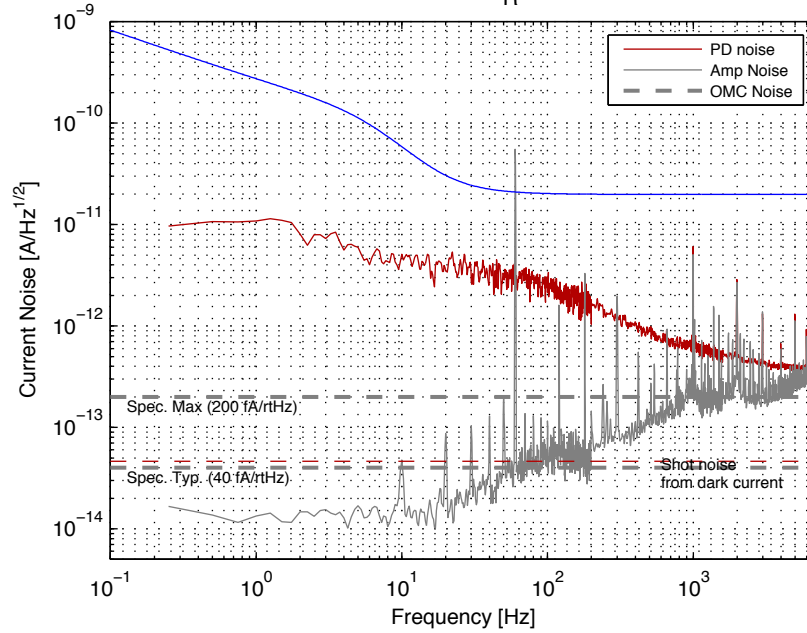
Elem1: 6.504 pA/rtHz

200~290Hz avg

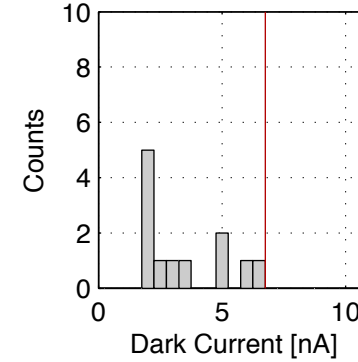
Elem1: 1.452 pA/rtHz

Total Penalty: -100

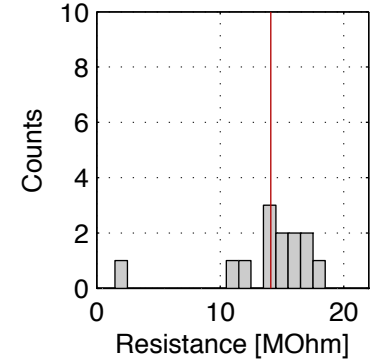
Dark noise: $V_R = 5V$



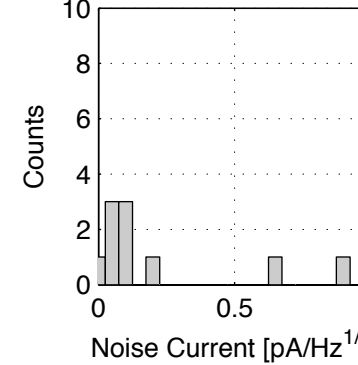
Dark Current@5V



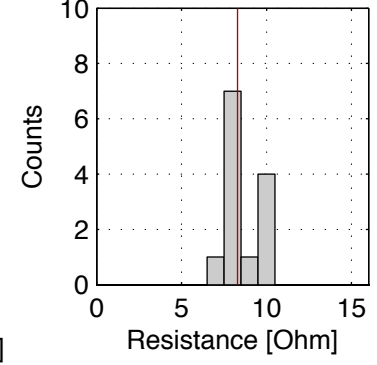
Shunt Resistance



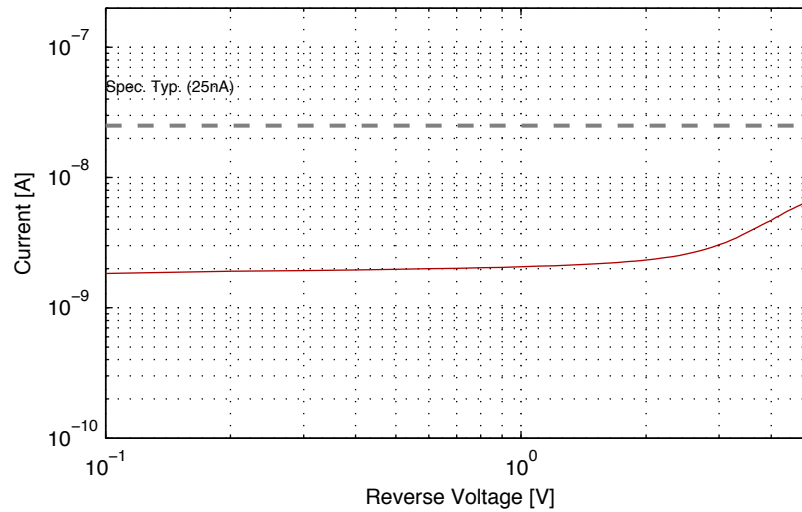
Dark current noise (1-10Hz Avg)



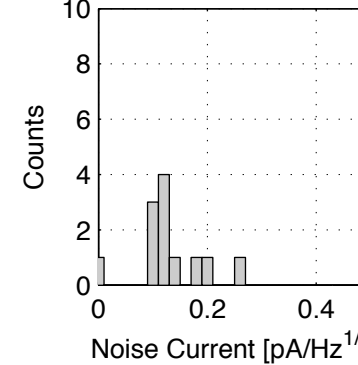
Series Resistance



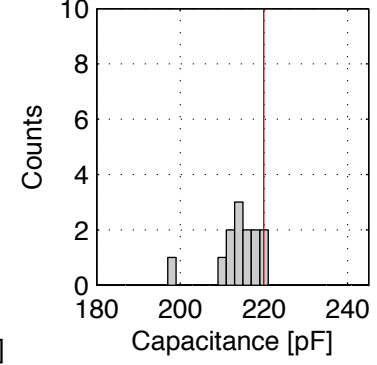
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings

Elem1: $i_{noise}(LF) > 1.8pA/rtHz$ (100nA shot)

Elem1: $i_{noise}(HF) > 600fA/rtHz$ (100nA shot)

PD #2

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 14.487 MOhm

Series Resistance (R_s):

Elem1: 9.9 Ohm

Junction Capacitance (C_{pd}):

Elem1: 214.3 pF

Dark Current [nA]:

Elem1: 5.19 nA

Dark Noise:

1~10Hz avg

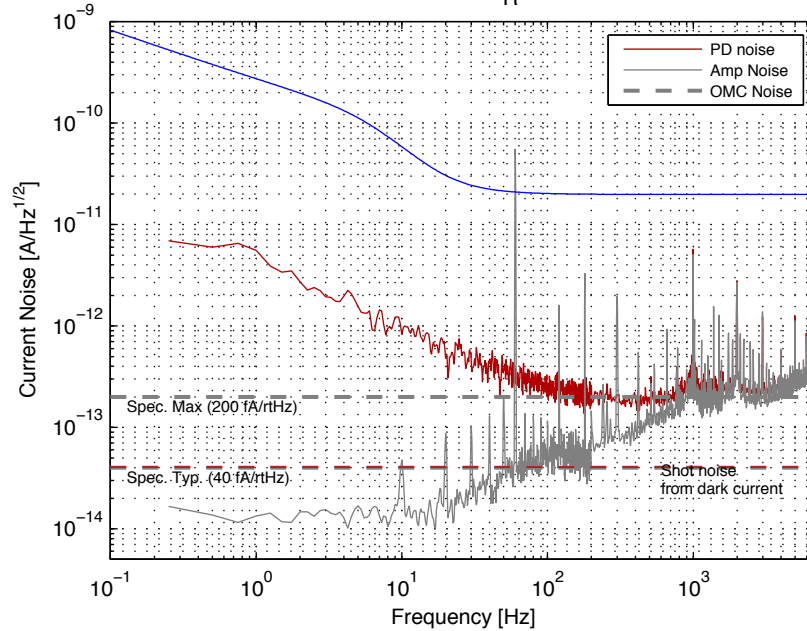
Elem1: 2.031 pA/rtHz

200~290Hz avg

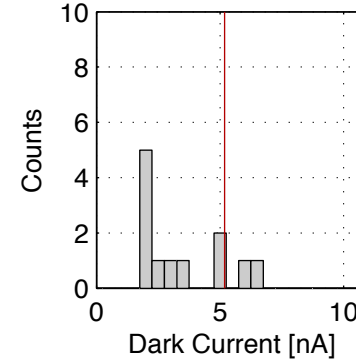
Elem1: 0.205 pA/rtHz

Total Penalty: -55

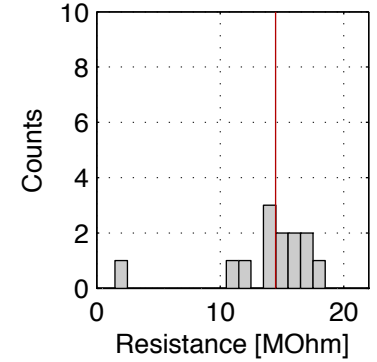
Dark noise: $V_R = 5V$



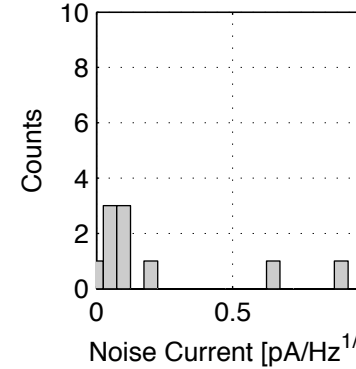
Dark Current@5V



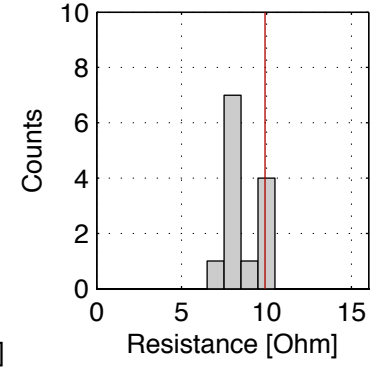
Shunt Resistance



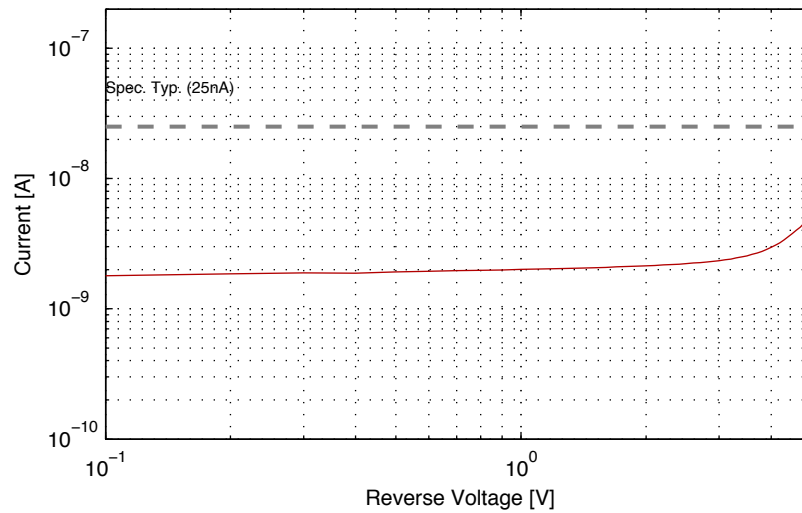
Dark current noise (1-10Hz Avg)



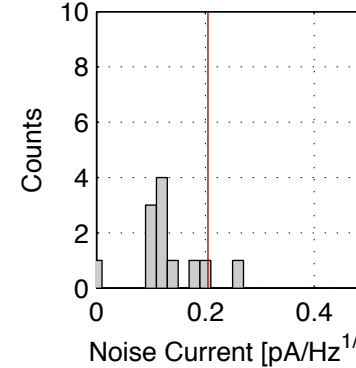
Series Resistance



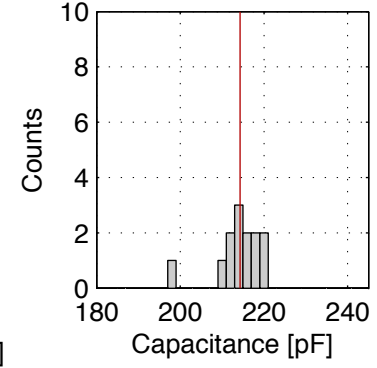
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings

Elem1: $i_{noise}(LF) > 1.8pA/rtHz$ (100nA shot)

Elem1: $i_{noise}(HF) > 180fA/rtHz$ (10nA shot)

PD #3

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 15.070 MOhm

Series Resistance (R_s):

Elem1: 8.5 Ohm

Junction Capacitance: (C_{pd}):

Elem1: 212.8 pF

Dark Current [nA]:

Elem1: 4.83 nA

Dark Noise:

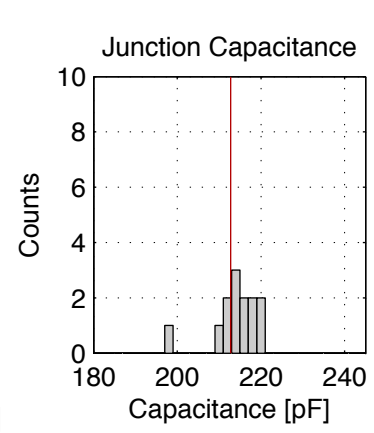
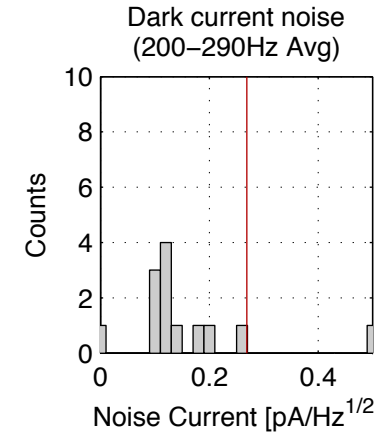
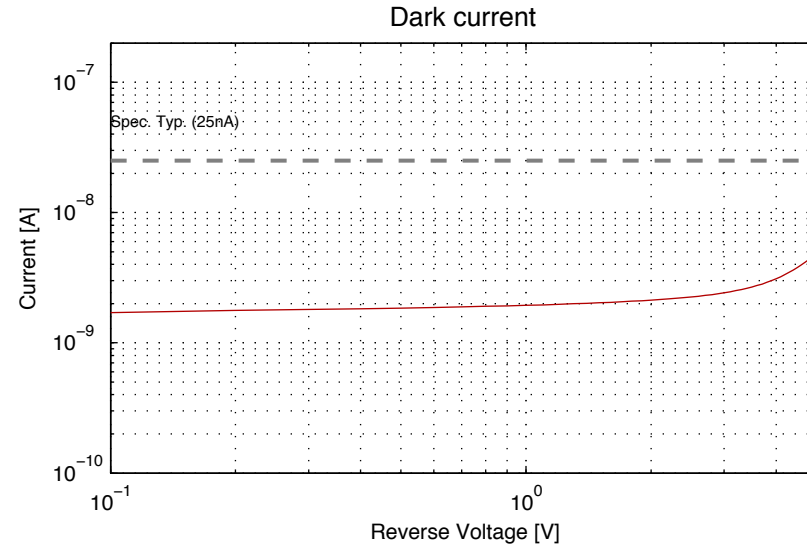
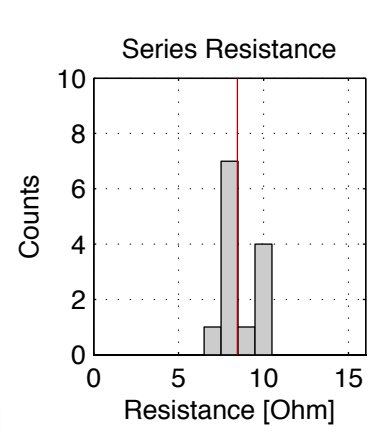
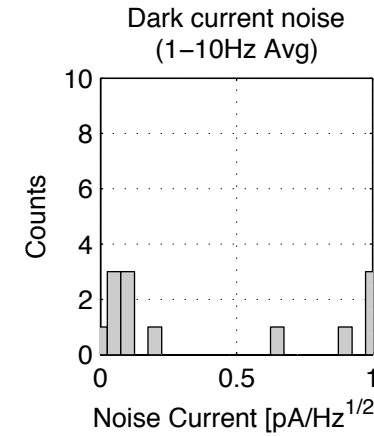
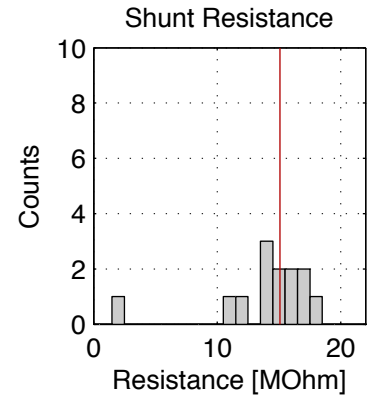
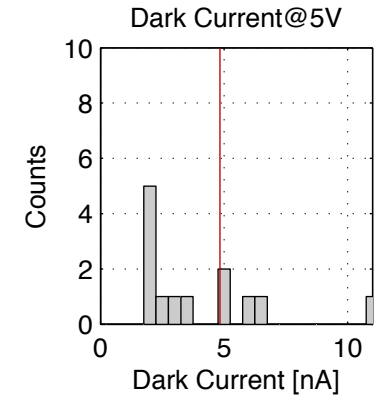
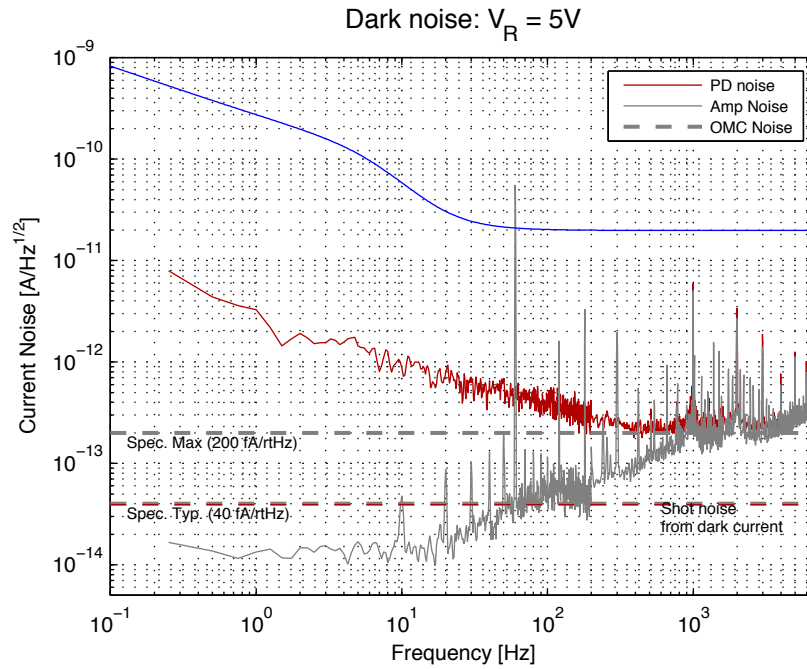
1~10Hz avg

Elem1: 1.473 pA/rtHz

200~290Hz avg

Elem1: 0.269 pA/rtHz

Total Penalty: -10



Errors / Warnings

Elem1: $i_{noise}(LF) > 180fA/rtHz$ (10nA shot)
 Elem1: $i_{noise}(HF) > 180fA/rtHz$ (10nA shot)

PD #4

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 16.785 MOhm

Series Resistance (R_s):

Elem1: 7.4 Ohm

Junction Capacitance (C_{pd}):

Elem1: 214.1 pF

Dark Current [nA]:

Elem1: 2.19 nA

Dark Noise:

1~10Hz avg

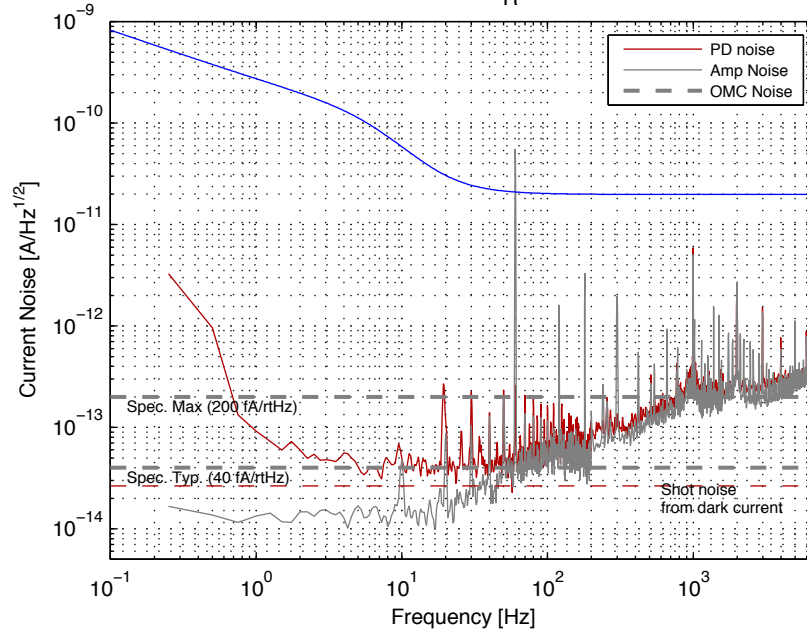
Elem1: 0.051 pA/rtHz

200~290Hz avg

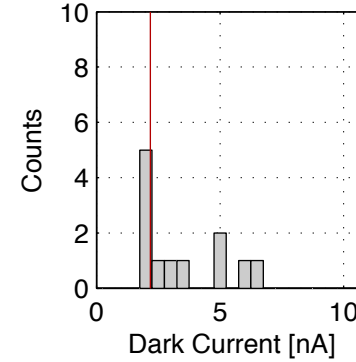
Elem1: 0.107 pA/rtHz

Total Penalty: 0

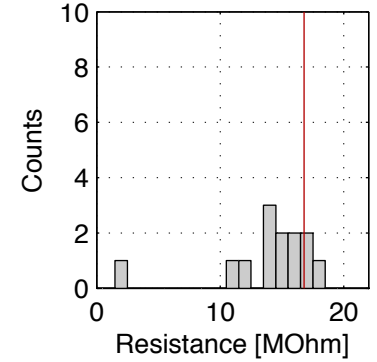
Dark noise: $V_R = 5V$



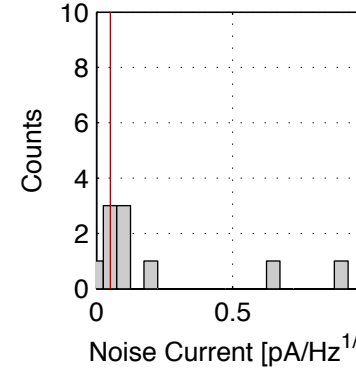
Dark Current@5V



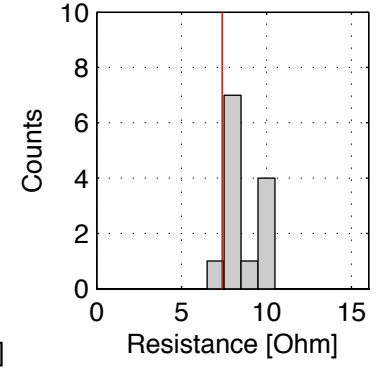
Shunt Resistance



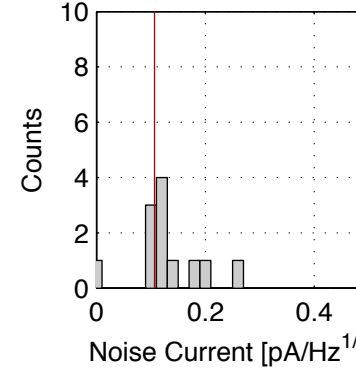
Dark current noise (1-10Hz Avg)



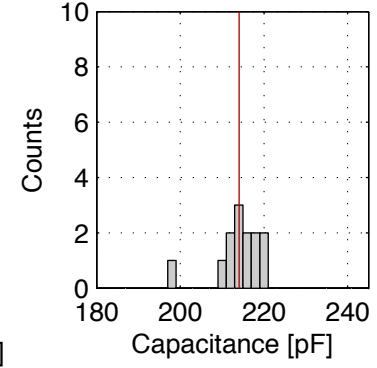
Series Resistance



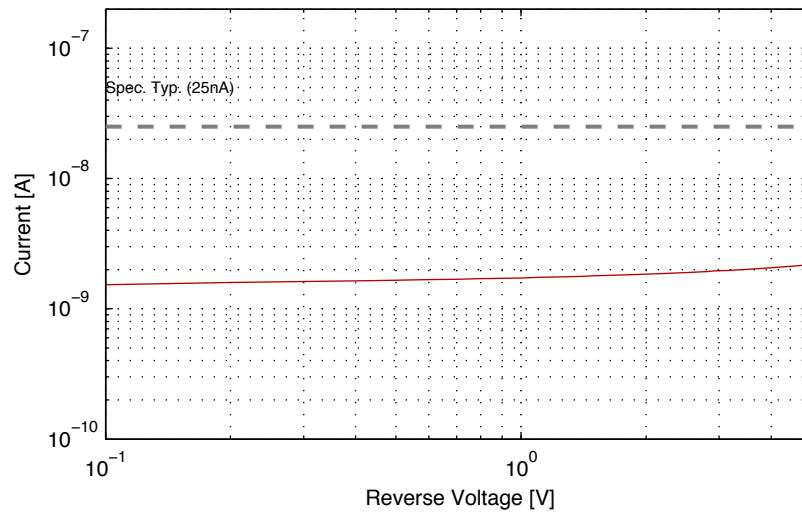
Dark current noise (200-290Hz Avg)



Junction Capacitance



Dark current



Errors / Warnings



PD #5

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 15.028 MOhm

Series Resistance (R_s):

Elem1: 8.4 Ohm

Junction Capacitance: (C_{pd}):

Elem1: 209.9 pF

Dark Current [nA]:

Elem1: 2.33 nA

Dark Noise:

1~10Hz avg

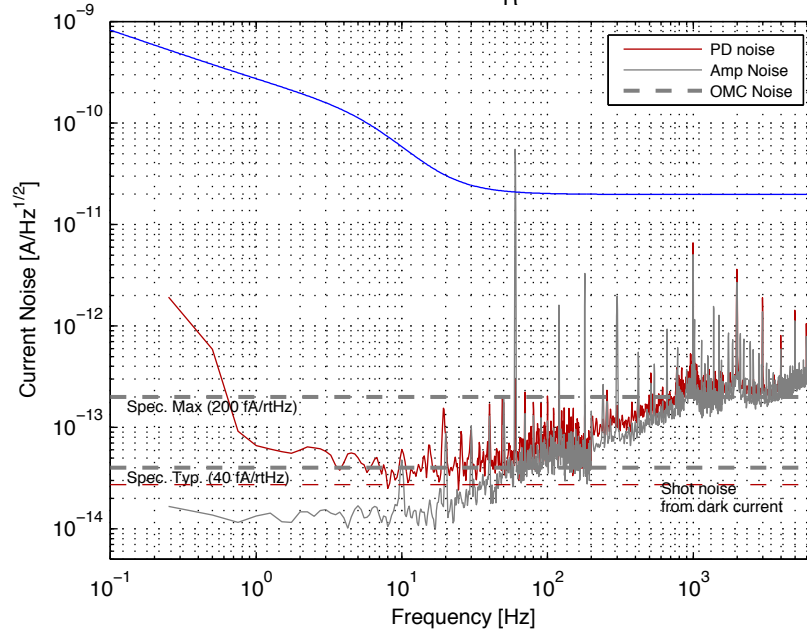
Elem1: 0.048 pA/rtHz

200~290Hz avg

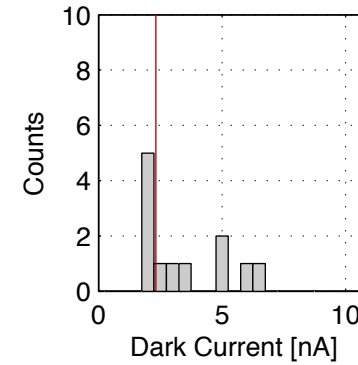
Elem1: 0.115 pA/rtHz

Total Penalty: 0

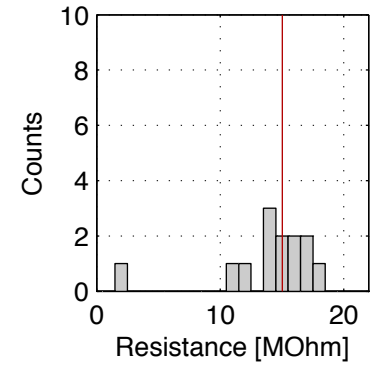
Dark noise: $V_R = 5V$



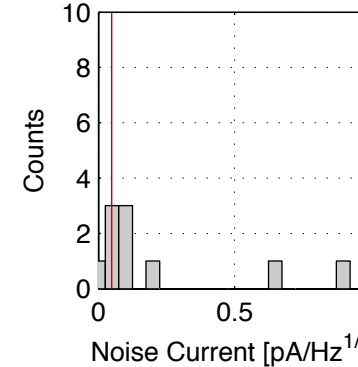
Dark Current@5V



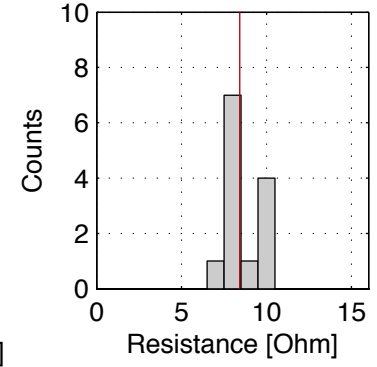
Shunt Resistance



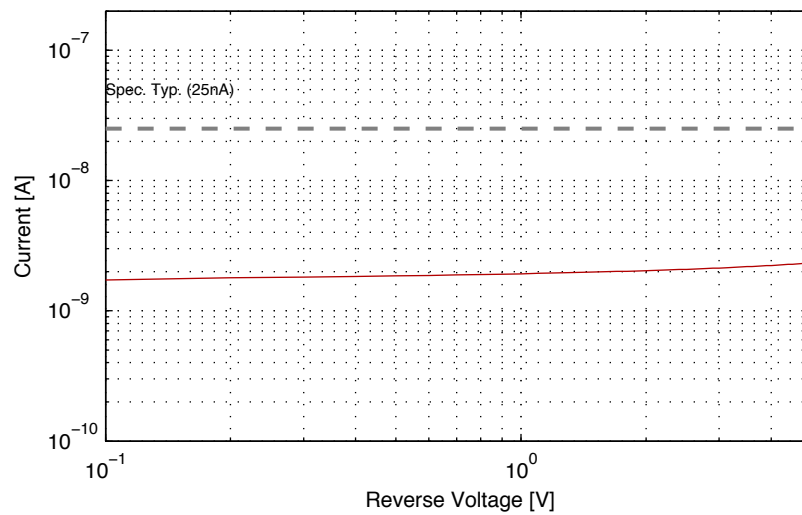
Dark current noise (1-10Hz Avg)



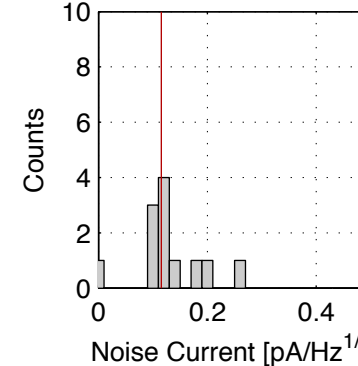
Series Resistance



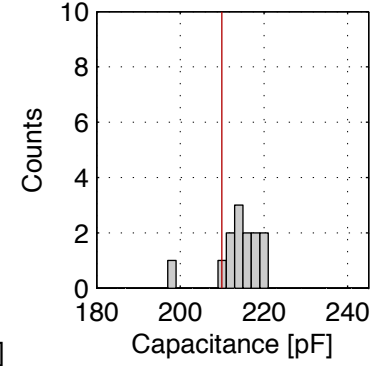
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings



PD #6

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 11.764 MOhm

Series Resistance (R_s):

Elem1: 8.0 Ohm

Junction Capacitance (C_{pd}):

Elem1: 219.0 pF

Dark Current [nA]:

Elem1: 2.76 nA

Dark Noise:

1~10Hz avg

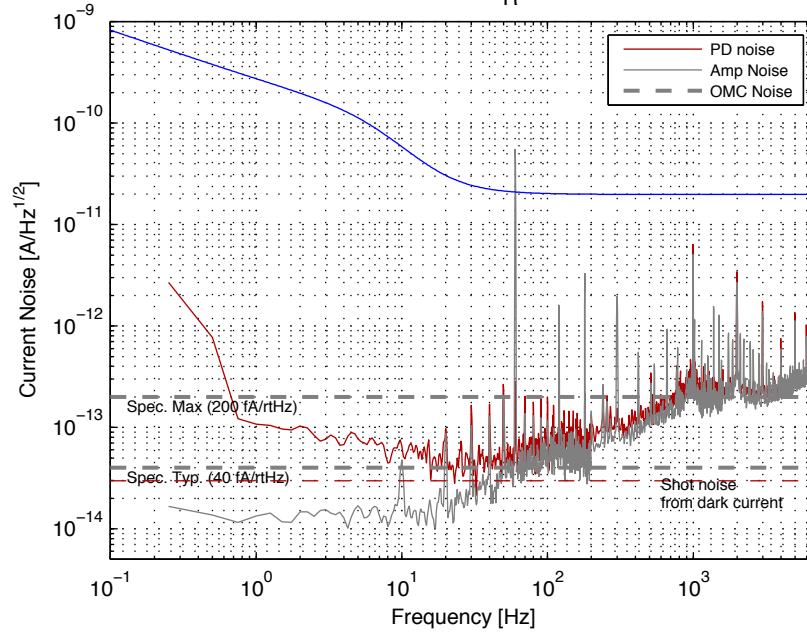
Elem1: 0.077 pA/rtHz

200~290Hz avg

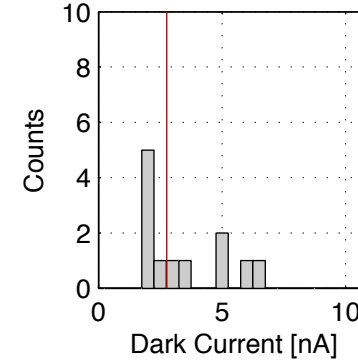
Elem1: 0.111 pA/rtHz

Total Penalty: 0

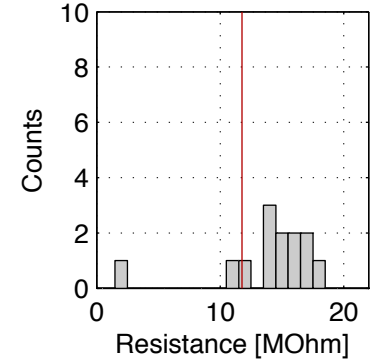
Dark noise: $V_R = 5V$



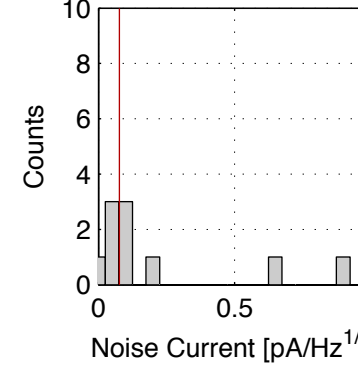
Dark Current@5V



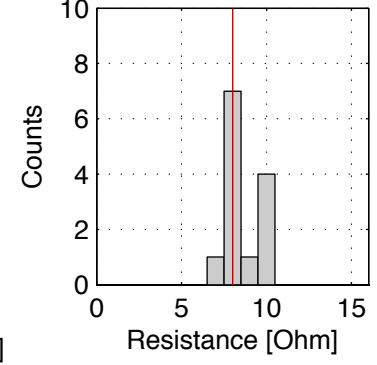
Shunt Resistance



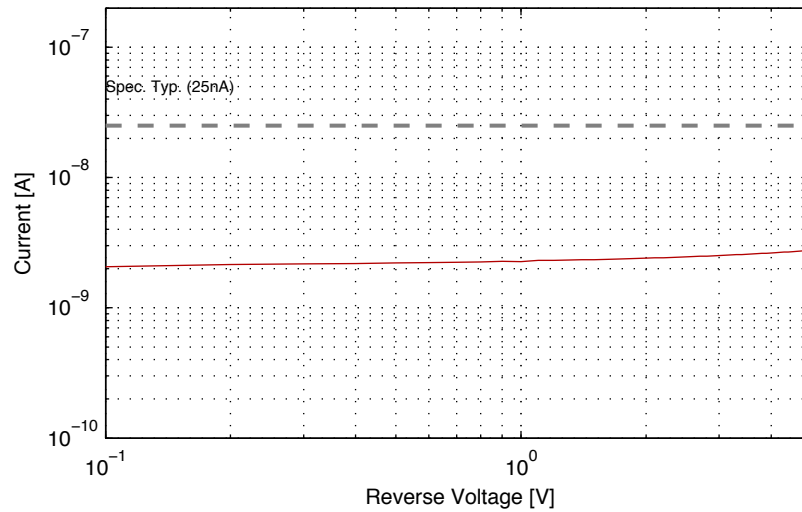
Dark current noise (1-10Hz Avg)



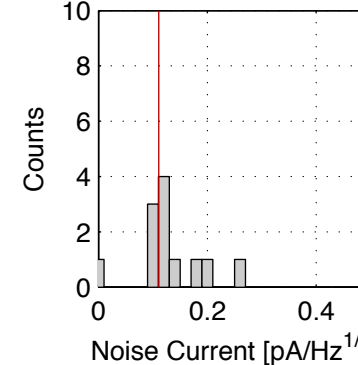
Series Resistance



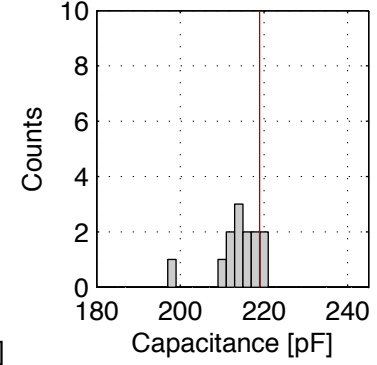
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings



PD #7

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 18.491 MOhm

Series Resistance (R_s):

Elem1: 9.0 Ohm

Junction Capacitance (C_{pd}):

Elem1: 197.1 pF

Dark Current [nA]:

Elem1: 2.01 nA

Dark Noise:

1~10Hz avg

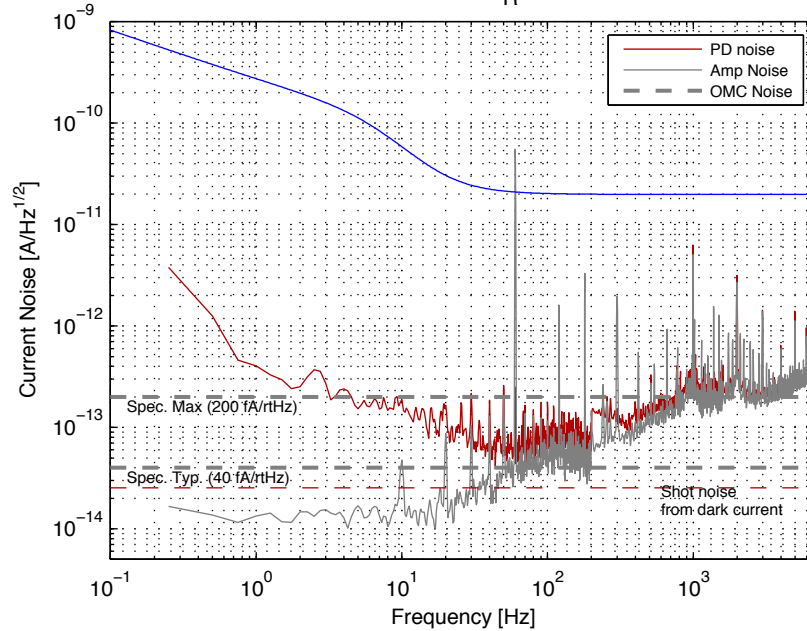
Elem1: 0.223 pA/rtHz

200~290Hz avg

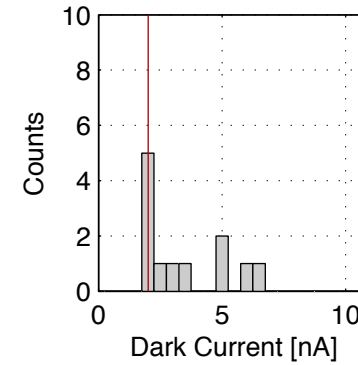
Elem1: 0.143 pA/rtHz

Total Penalty: -5

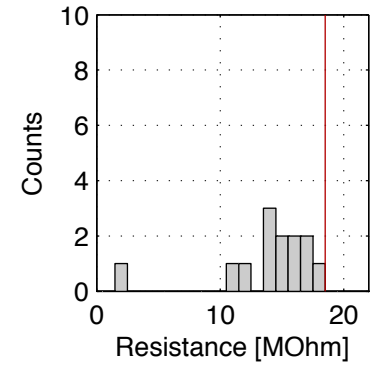
Dark noise: $V_R = 5V$



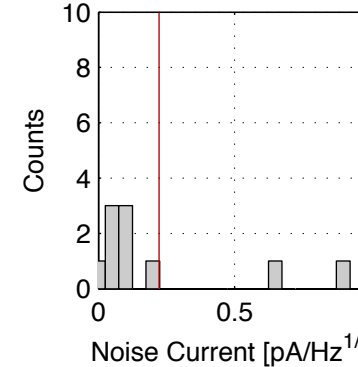
Dark Current@5V



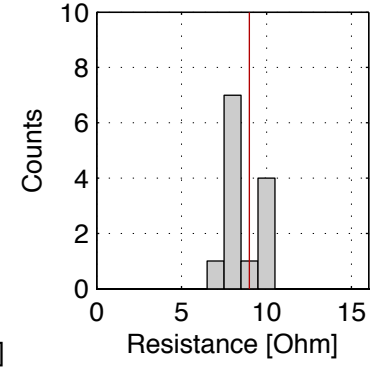
Shunt Resistance



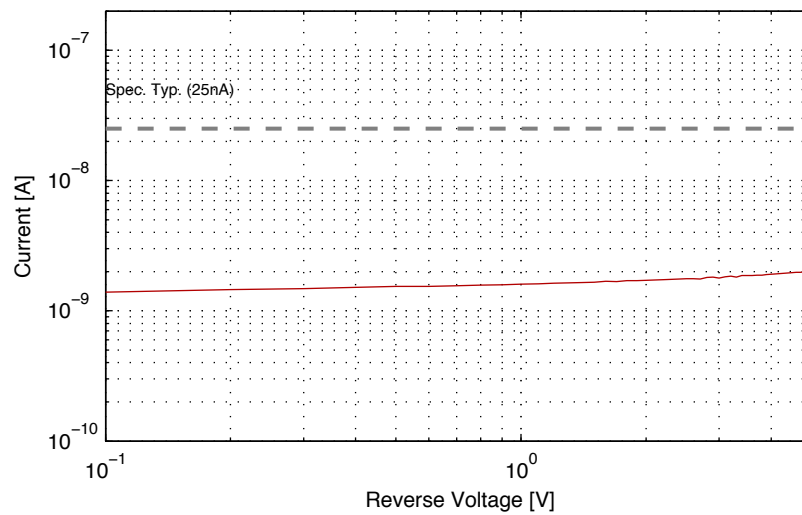
Dark current noise (1-10Hz Avg)



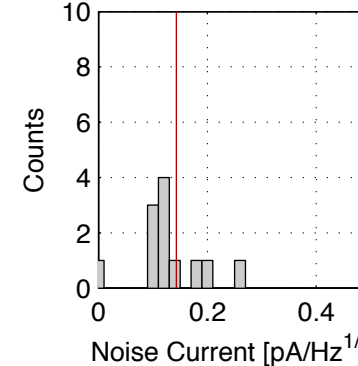
Series Resistance



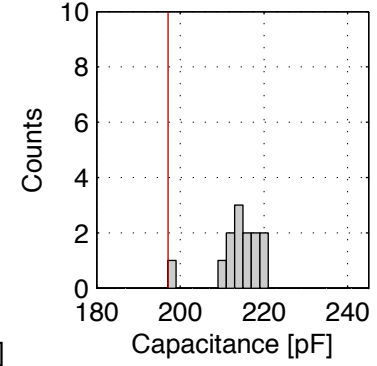
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings

Elem1: $i_{noise} (LF) > 180fA/rtHz$ (10nA shot)

PD #8

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 11.269 MOhm

Series Resistance (R_s):

Elem1: 8.4 Ohm

Junction Capacitance (C_{pd}):

Elem1: 213.1 pF

Dark Current [nA]:

Elem1: 5.87 nA

Dark Noise:

1~10Hz avg

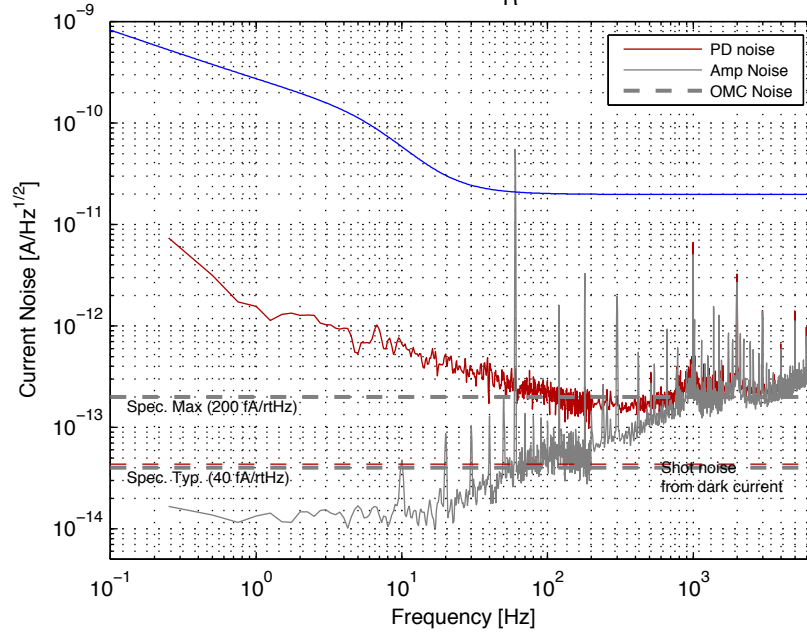
Elem1: 0.911 pA/rtHz

200~290Hz avg

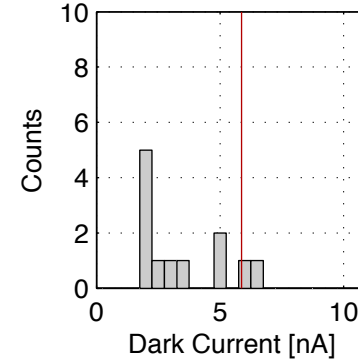
Elem1: 0.177 pA/rtHz

Total Penalty: -5

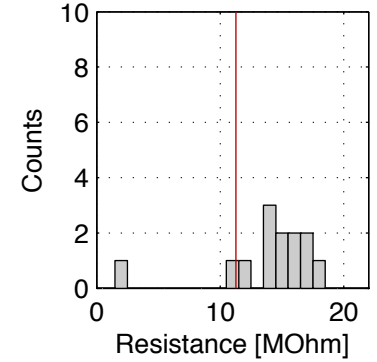
Dark noise: $V_R = 5V$



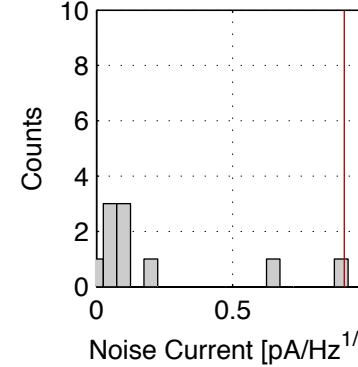
Dark Current@5V



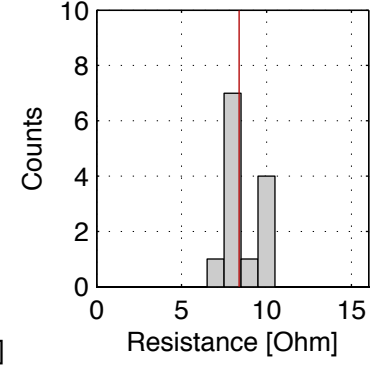
Shunt Resistance



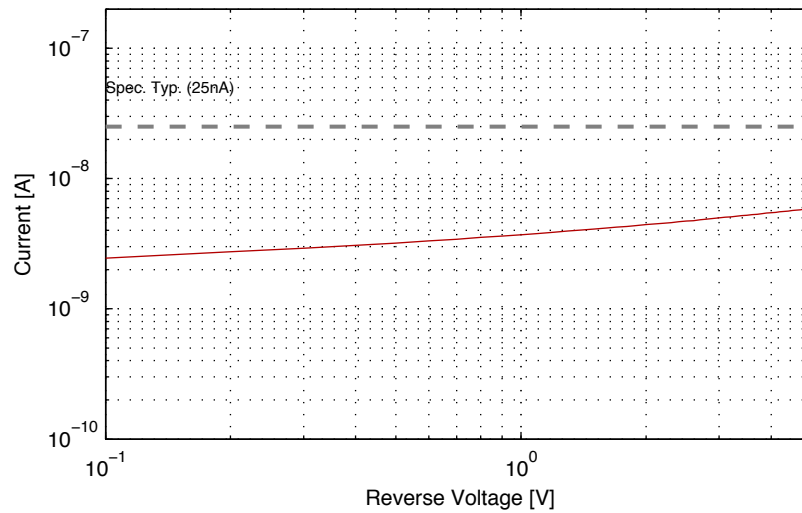
Dark current noise (1-10Hz Avg)



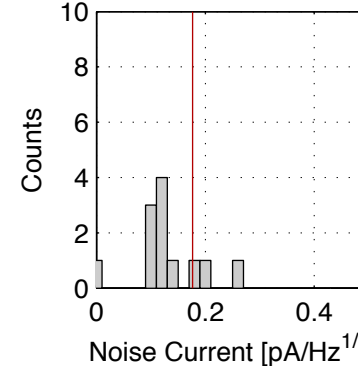
Series Resistance



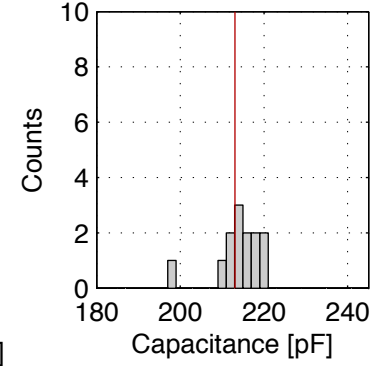
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings

Elem1: $i_{noise} (LF) > 180fA/rtHz$ (10nA shot)

PD #9

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 2.372 MOhm

Series Resistance (R_s):

Elem1: 8.2 Ohm

Junction Capacitance (C_{pd}):

Elem1: 216.9 pF

Dark Current [nA]:

Elem1: 1131.96 nA

Dark Noise:

1~10Hz avg

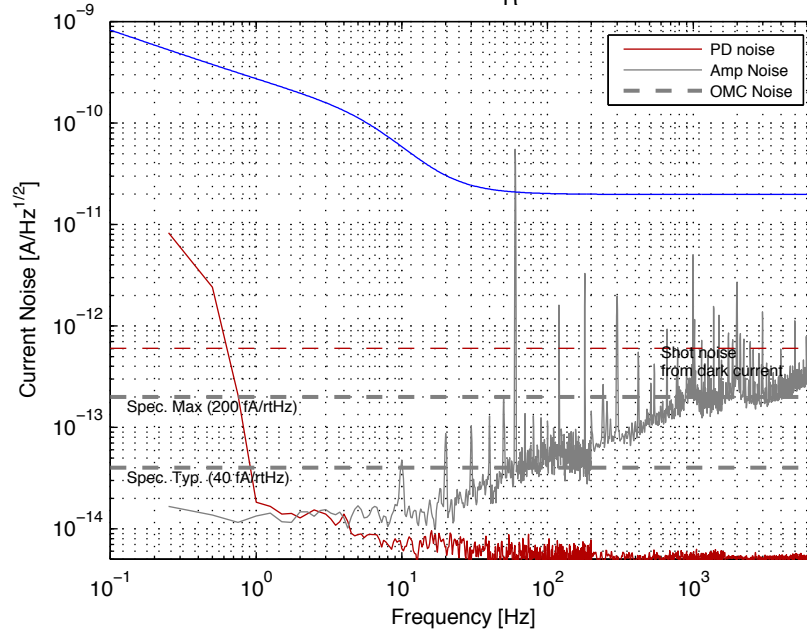
Elem1: 0.011 pA/rtHz

200~290Hz avg

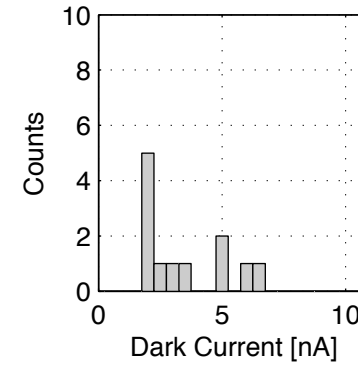
Elem1: 0.005 pA/rtHz

Total Penalty: -105

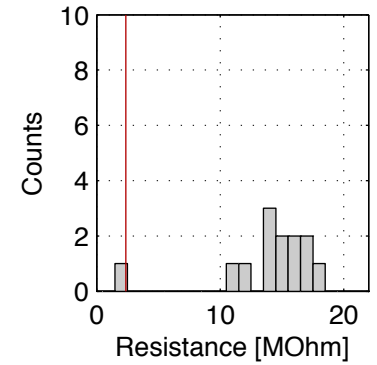
Dark noise: $V_R = 5V$



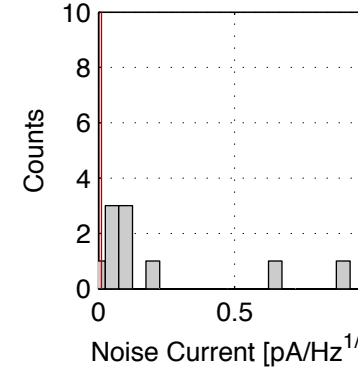
Dark Current@5V



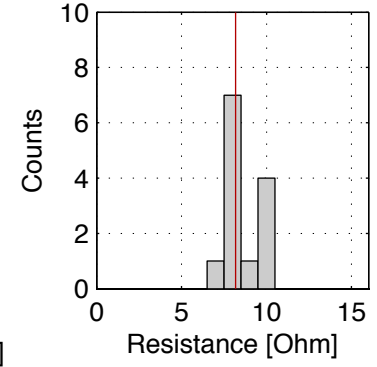
Shunt Resistance



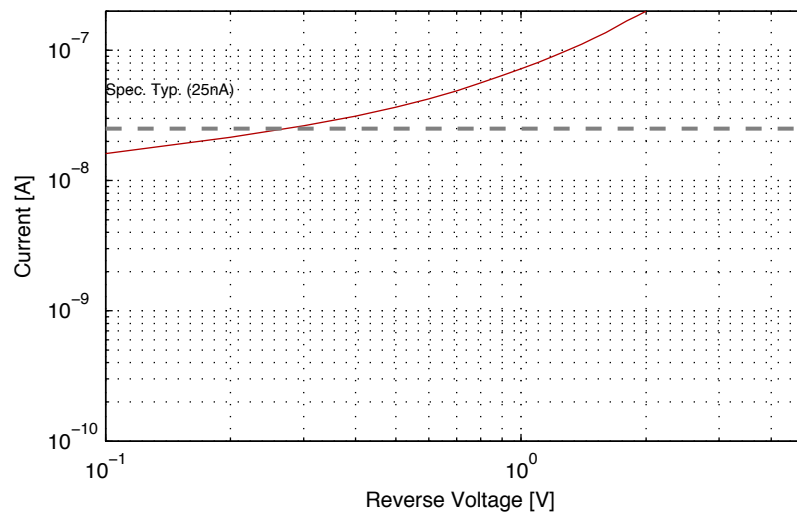
Dark current noise (1-10Hz Avg)



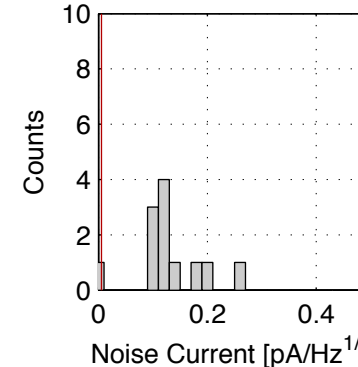
Series Resistance



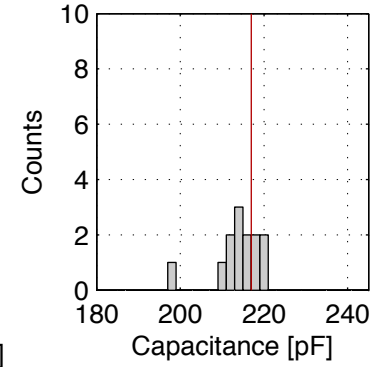
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings

- Elem1: $R_{sh} < 10M$ Ohm
- Elem1: $i_{dark} > 70nA$
- Elem1: i_{noise}^{dark} (LF): too high dark current?
- Elem1: i_{noise}^{dark} (HF): too high dark current?

PD #10

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 17.106 MOhm

Series Resistance (R_s):

Elem1: 8.2 Ohm

Junction Capacitance: (C_{pd}):

Elem1: 220.0 pF

Dark Current [nA]:

Elem1: 2.09 nA

Dark Noise:

1~10Hz avg

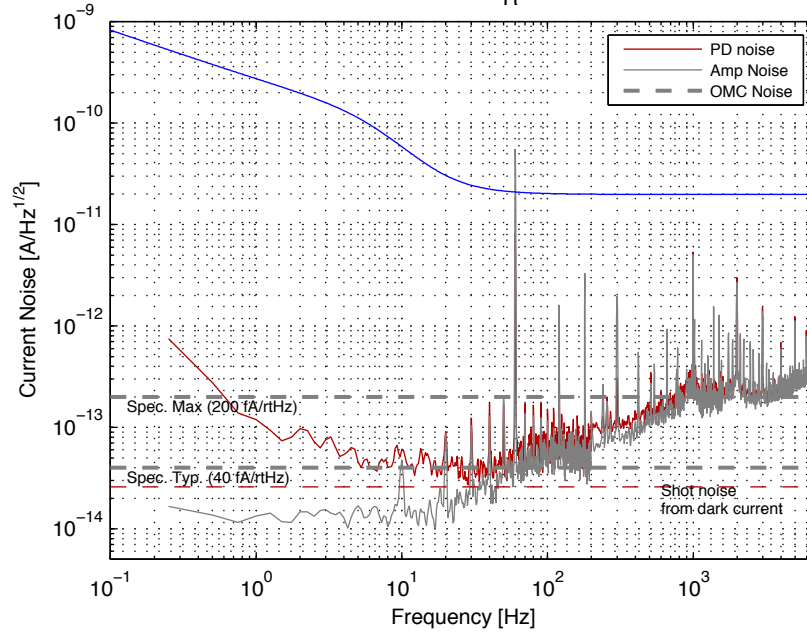
Elem1: 0.062 pA/rtHz

200~290Hz avg

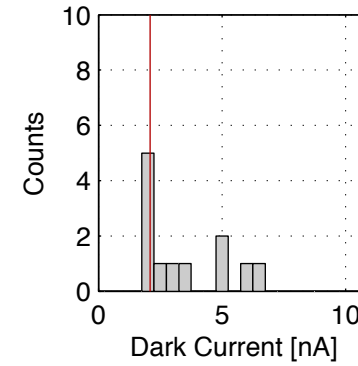
Elem1: 0.111 pA/rtHz

Total Penalty: 0

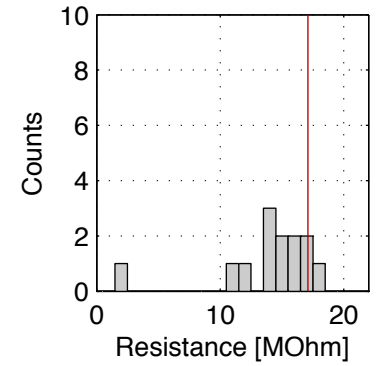
Dark noise: $V_R = 5V$



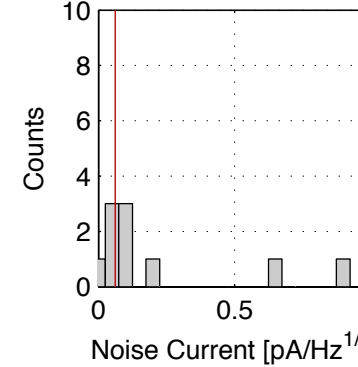
Dark Current@5V



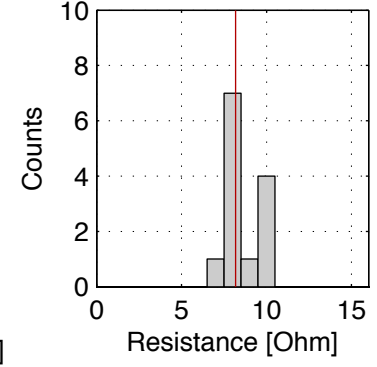
Shunt Resistance



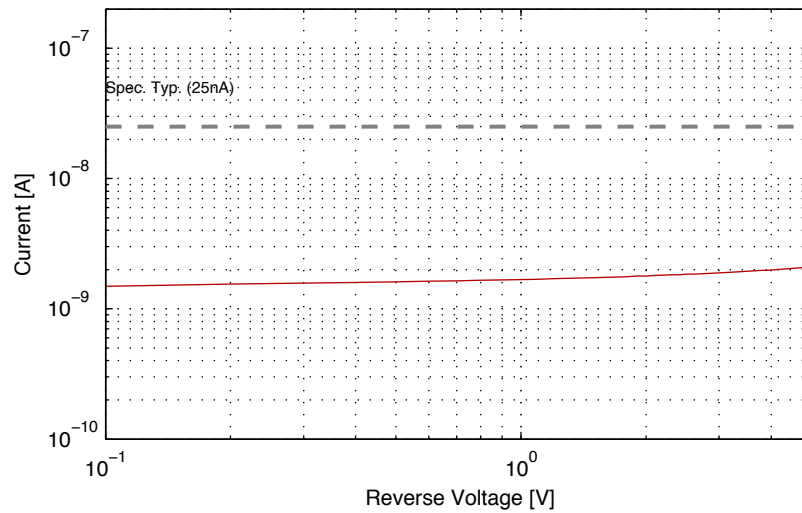
Dark current noise (1-10Hz Avg)



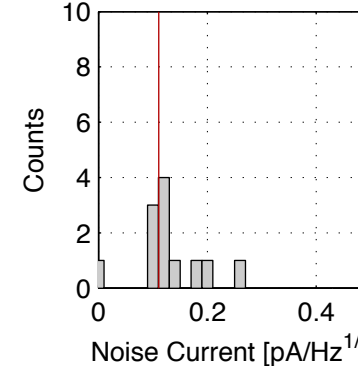
Series Resistance



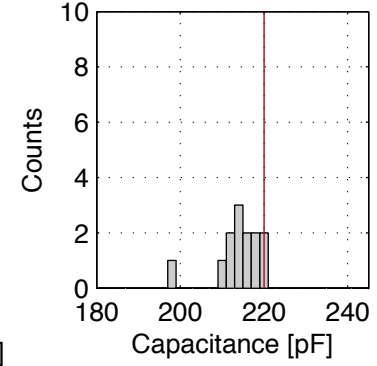
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings



PD #11

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 13.905 MOhm

Series Resistance (R_s):

Elem1: 10.0 Ohm

Junction Capacitance (C_{pd}):

Elem1: 212.9 pF

Dark Current [nA]:

Elem1: 3.48 nA

Dark Noise:

1~10Hz avg

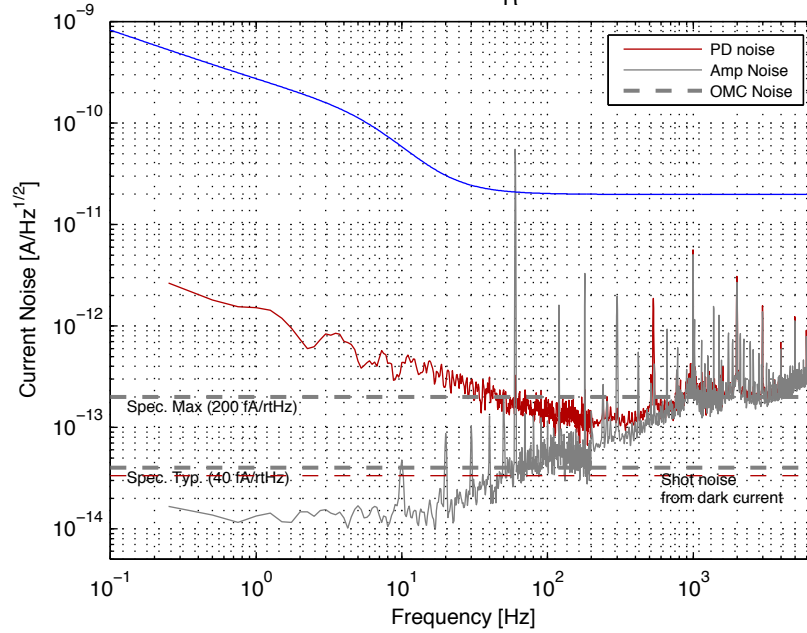
Elem1: 0.674 pA/rtHz

200~290Hz avg

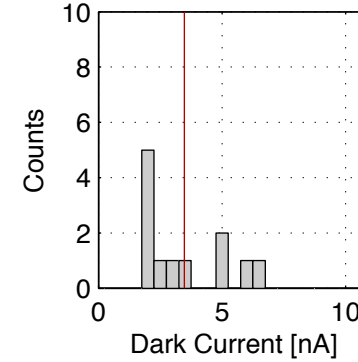
Elem1: 0.128 pA/rtHz

Total Penalty: -5

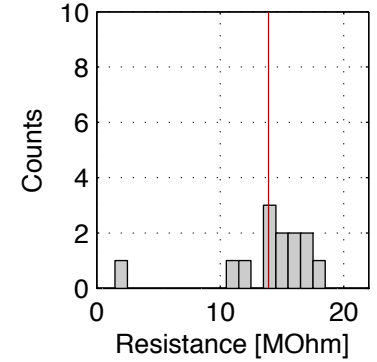
Dark noise: $V_R = 5V$



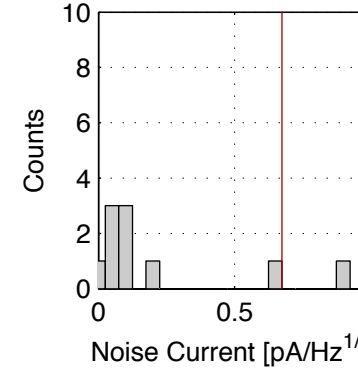
Dark Current@5V



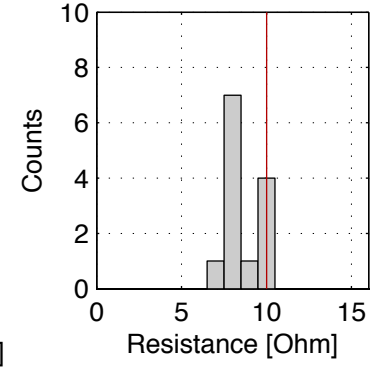
Shunt Resistance



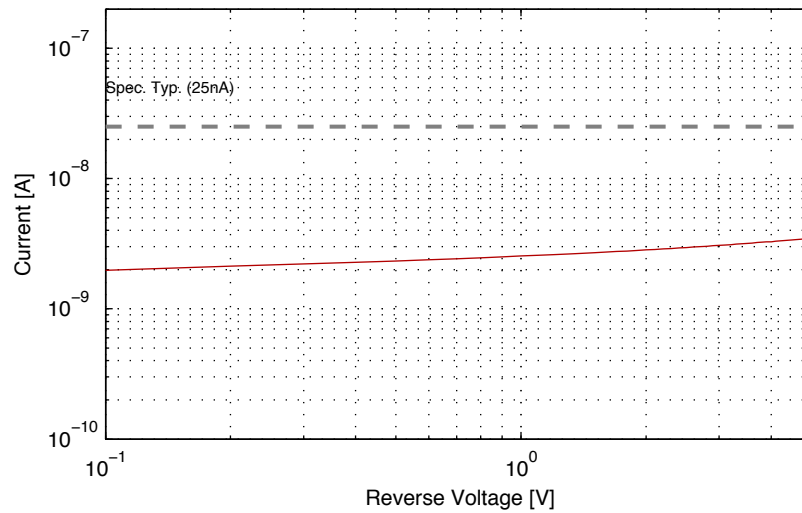
Dark current noise (1-10Hz Avg)



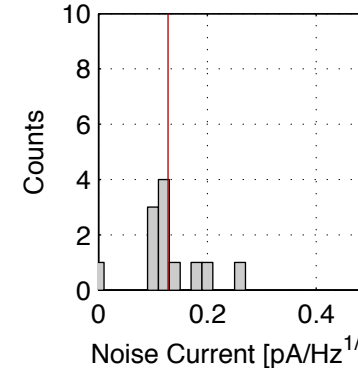
Series Resistance



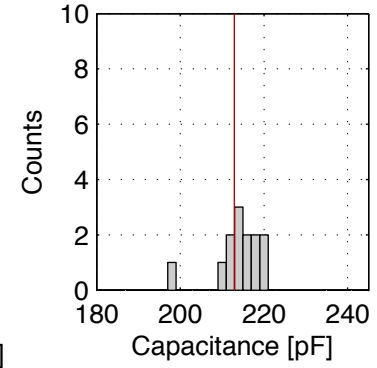
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings

Elem1: $i_{noise} (LF) > 180fA/rtHz$ (10nA shot)

PD #12

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 15.749 MOhm

Series Resistance (R_s):

Elem1: 9.9 Ohm

Junction Capacitance (C_{pd}):

Elem1: 216.8 pF

Dark Current [nA]:

Elem1: 2.19 nA

Dark Noise:

1~10Hz avg

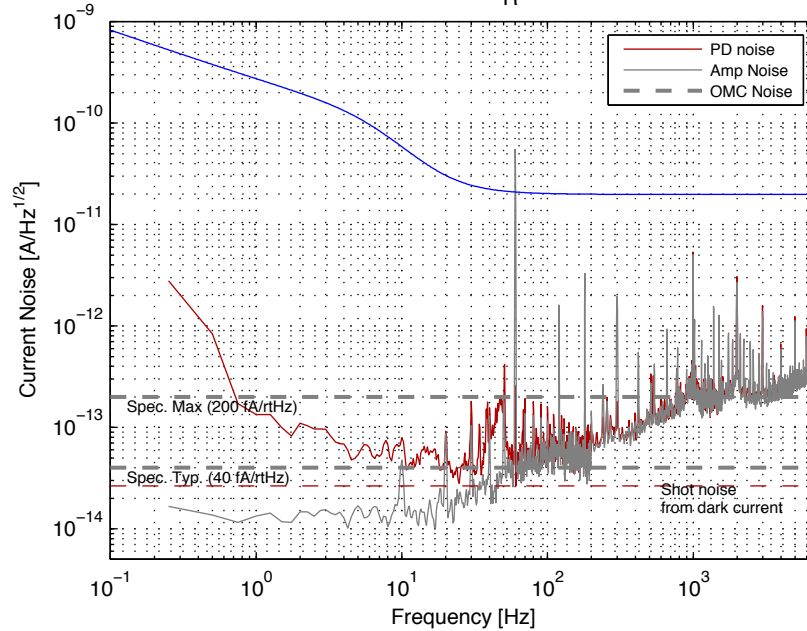
Elem1: 0.076 pA/rtHz

200~290Hz avg

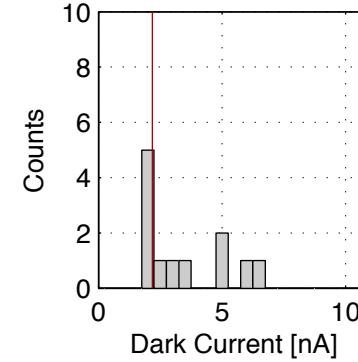
Elem1: 0.096 pA/rtHz

Total Penalty: 0

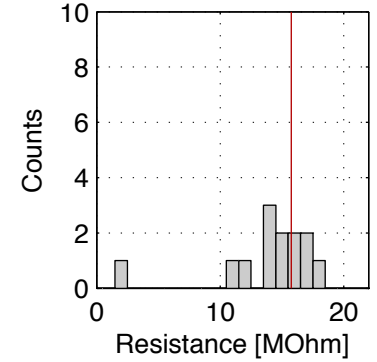
Dark noise: $V_R = 5V$



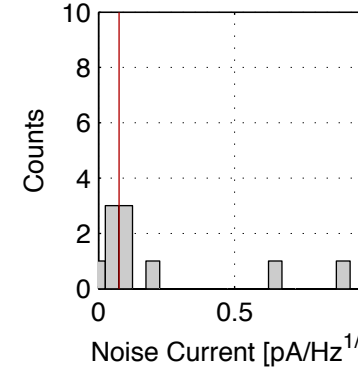
Dark Current@5V



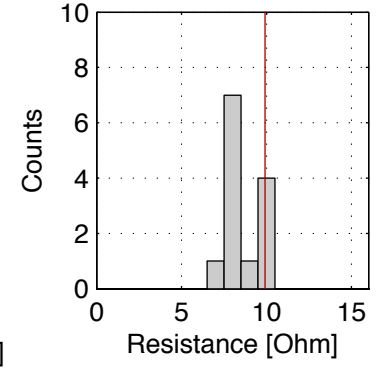
Shunt Resistance



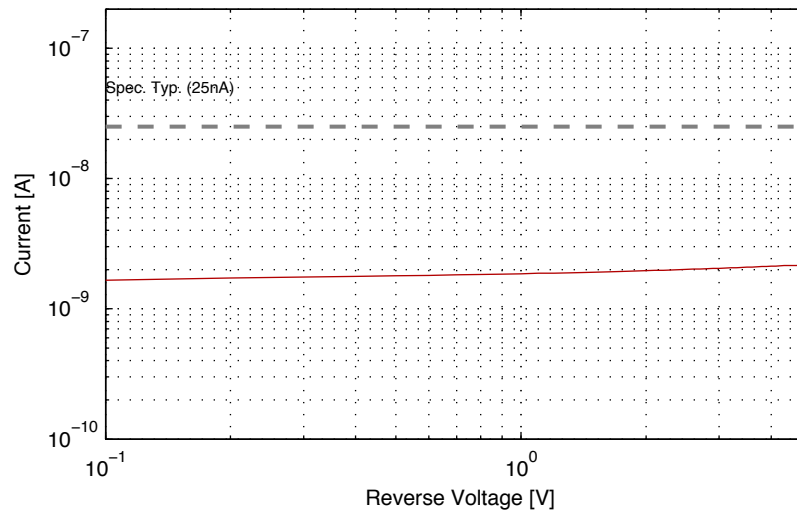
Dark current noise (1-10Hz Avg)



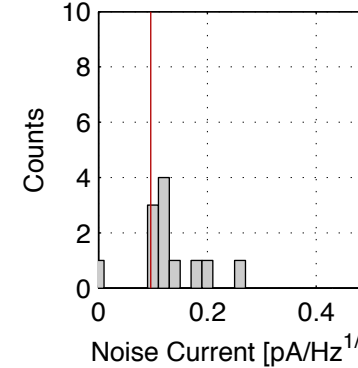
Series Resistance



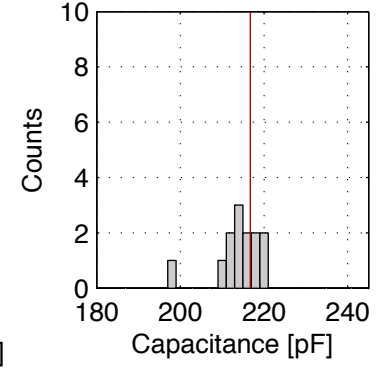
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings



PD #13

Measurement Date:

Mar. 17, 2013

Impedance measured at $V_R = 15V$

Shunt Resistance (R_{SH}):

Elem1: 16.201 MOhm

Series Resistance (R_s):

Elem1: 10.1 Ohm

Junction Capacitance (C_{pd}):

Elem1: 217.5 pF

Dark Current [nA]:

Elem1: 2.15 nA

Dark Noise:

1~10Hz avg

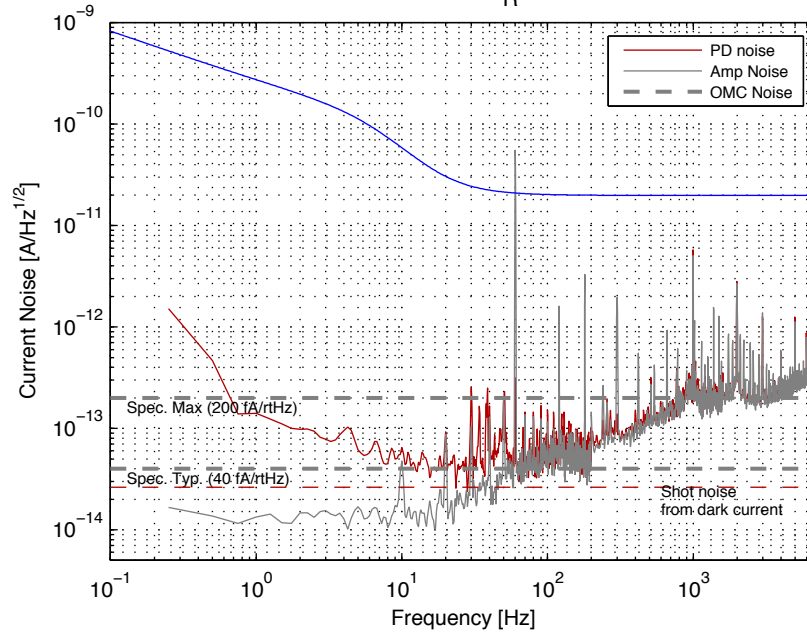
Elem1: 0.077 pA/rtHz

200~290Hz avg

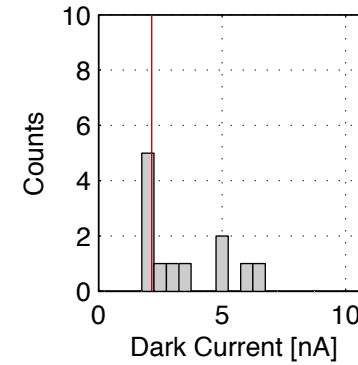
Elem1: 0.097 pA/rtHz

Total Penalty: 0

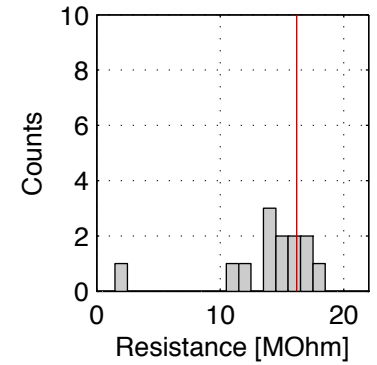
Dark noise: $V_R = 5V$



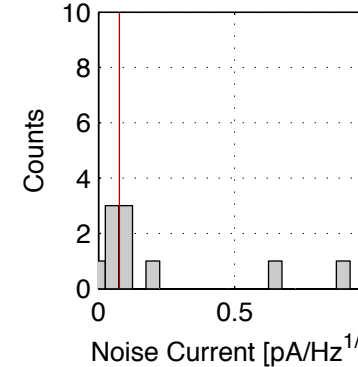
Dark Current@5V



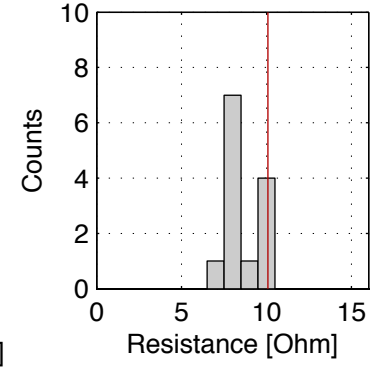
Shunt Resistance



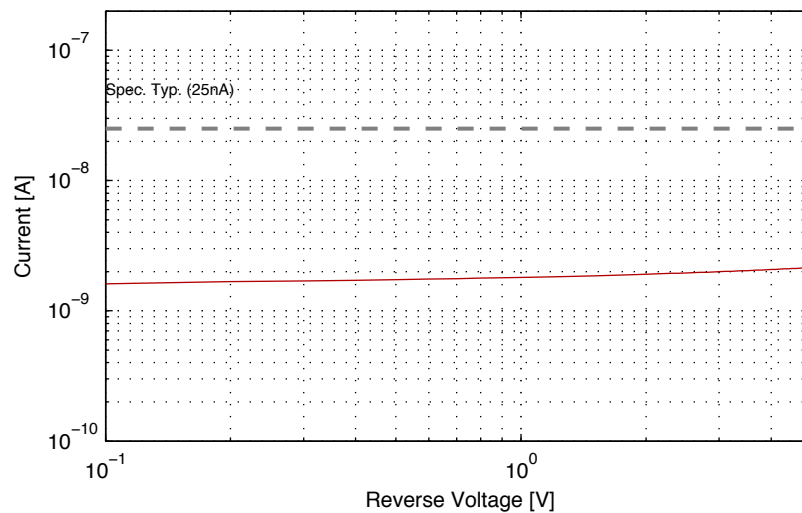
Dark current noise (1-10Hz Avg)



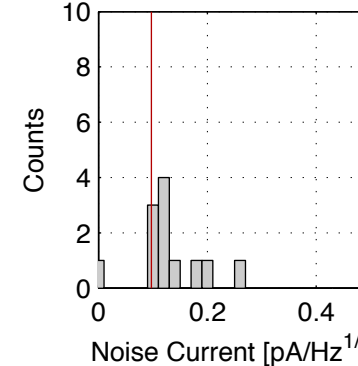
Series Resistance



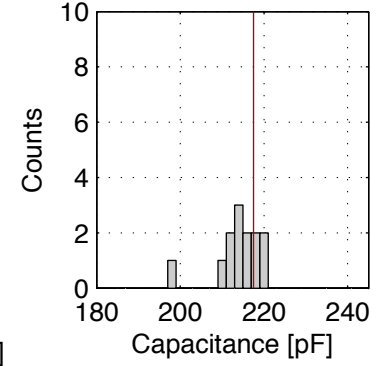
Dark current



Dark current noise (200-290Hz Avg)



Junction Capacitance



Errors / Warnings

