Hybrid 8j334 Traveler

June 19, 2000

1 Connectivity

Repairs on shorts:
Fixes for opens:

2 Chips

The following chips were assembled on this hybrid (in the order that the chips get read out):
Hybrid 8J334 has die: 207-077 207-078 207-079 207-082 159-067 159-068 159-073 159-072

3 Data Analysis Summary

The following summarizes the findings of the Burn-in data analysis program. The first chip in the readout name is numbered 0.

```
% Hybrid 8j334 classification info. Created 09:14:49 06/19/00

Hybrid 8j334 quality: bad
Chip classification: fair bad fair fair good fair good fair
Bad channels (chip-channel): 0-53 1-42 1-43 1-66 2-79 3-75 5-13 7-25
Bad cells: none
Random bad capacitors (chip-cell-channel): 1-1-19 1-10-18 1-10-19
   1-12-17 1-12-18 1-12-19 1-21-18 1-21-19 1-21-20 1-21-21 1-22-19
   1-22-20 1-34-19 1-5-18 1-5-19 1-8-18 1-8-19 5-0-13 5-1-13
   5-10-13 5-12-13 5-14-13 5-17-13 5-22-13 5-24-13 5-28-13 5-29-13
   5-33-13 5-34-13 5-35-13 5-36-13 5-37-13 5-4-13 5-41-13 5-42-13
   5-43-13 5-45-13 5-5-13 5-8-13 5-9-13
Channels at pedestal needed for DCMS: 32.6 32.6 31.6 30.6 32.7 32.7 33.7 33.6
```

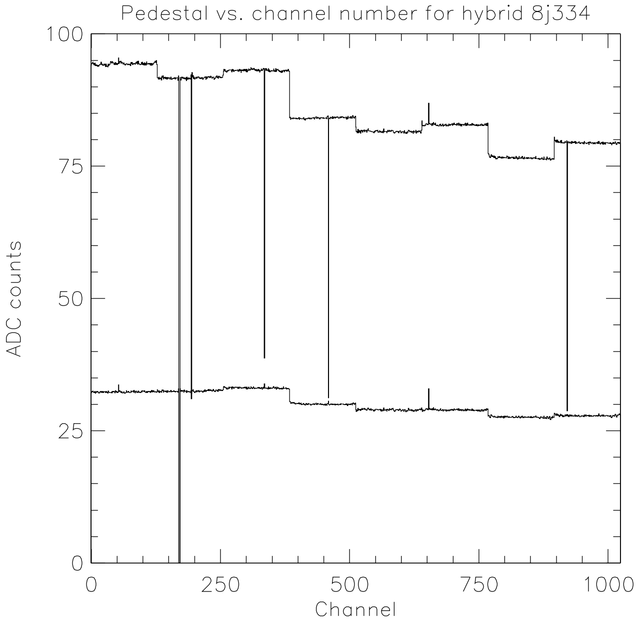
4 Comments

HV tested.

5 Pedestal

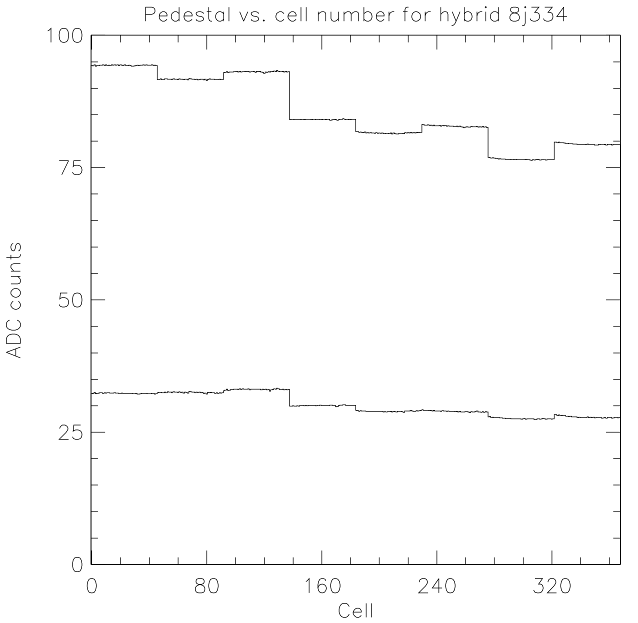
The following plot shows the pedestals vs. channel number with and without charge injection:

Pedestal for each Channel



The following plot shows the average pedestal vs. pipeline cell ID with and without charge injection. The x-axis is cell ID offset by 46 for each chip. Thus cell ID 5 for chip 1 is at x=5, chip 2 at x=51, chip 3 at x=97, etc.

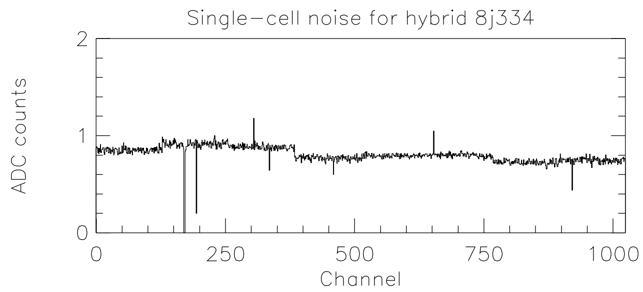
Pedestal vs. Pipeline Cell ID

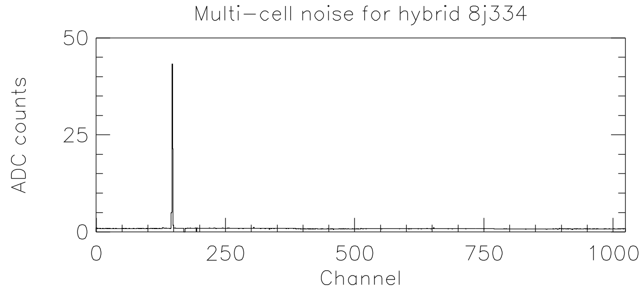


6 Noise

The following plots show the single-cell and multi-cell RMS noise:

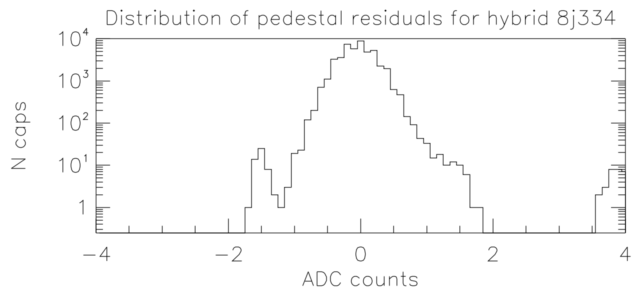
RMS Noise

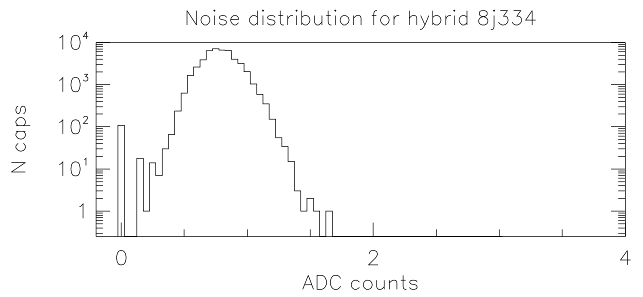




The following are histograms of the pedestal of each pipeline capacitor relative to the chip average (top); and the RMS noise of each capacitor (bottom):

Distribution of Pedestals and Noise





7 Currents

The following plots show the supply currents per chip as a function of measurment number. Currents are measured approximately every 10 minutes:

Supply Currents During Burn-in