Hybrid 8j241 Traveler

March 6, 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 8J241 has die: 161-057 161-058 161-061 161-062 173-113 173-119 173-120 173-125

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 8j241 classification info. Created 09:59:12 03/06/00

Hybrid 8j241 quality: fair
Chip classification: good good good fair good good good good
Bad channels (chip-channel): 3-69
Bad cells: none
Random bad capacitors (chip-cell-channel): 3-24-68 3-27-68 3-29-68
   3-31-68 3-40-68 3-41-68
Channels at pedestal needed for DCMS: 31.6 31.6 29.7 30.6 37.7 35.7 36.6 35.7
```

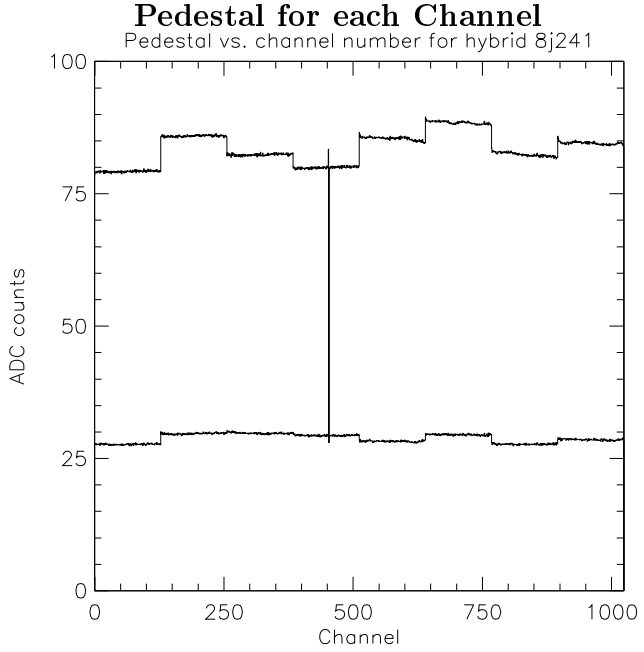
4 Comments

Encapsulated. FE DV finger gold bonds. HV tested.

5 Pedestal

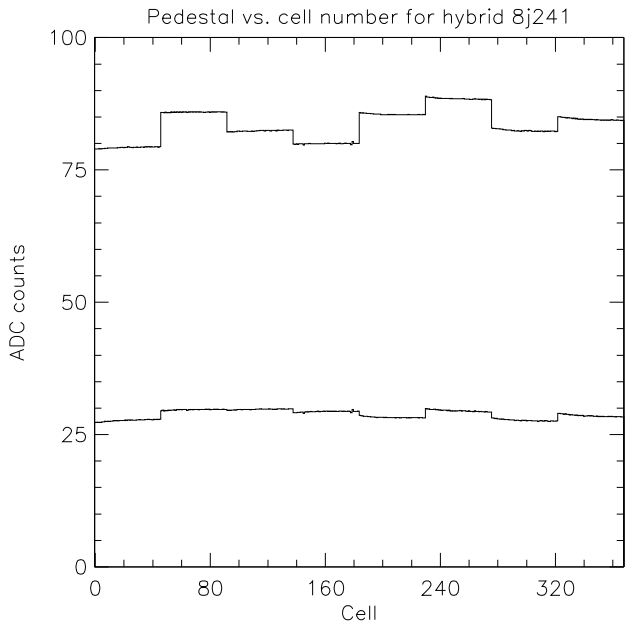
The following plot shows the pedestals vs. channel number with and without charge injection:

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.

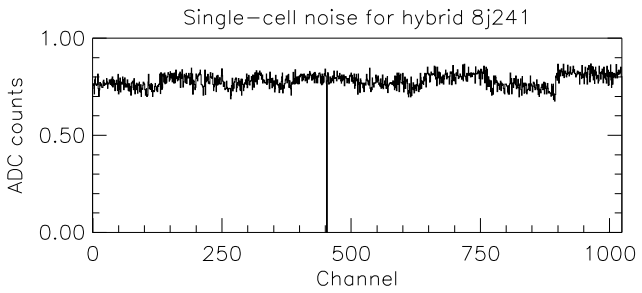
Pedestal vs. Pipeline Cell ID

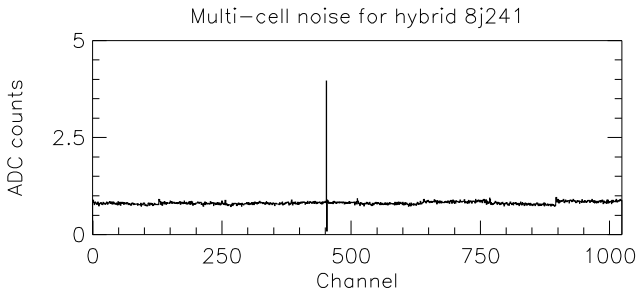


6 Noise

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

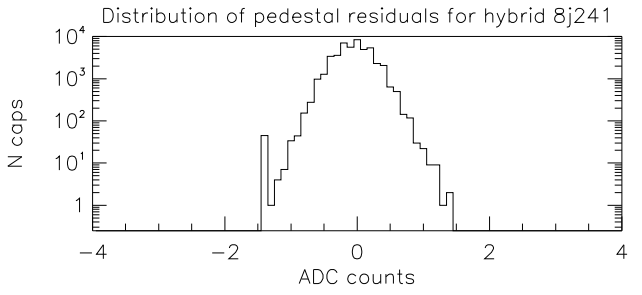
RMS Noise

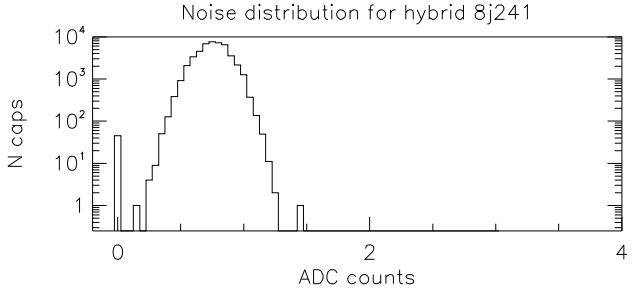




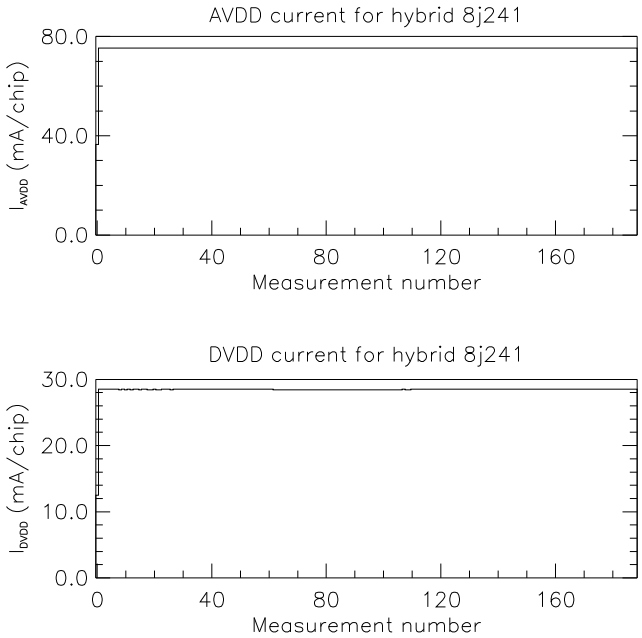
The following are histograms of the pedestal of each pipeline capacitor relative to the chip average (top); and the RMS noise of each capacitor (bottom):

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