

Chip Z36459A-W04-X06-Y13 report.  
(created: Thu Mar 29 20:54:30 2001 )

General info :

Wafer name : Z36459A-W04  
Position in wafer: X06-Y13  
Raw data status flag : 63  
Number of channels : 128  
Digital and Analog volt. : 4.00 [V] 3.50 [V]  
Master digital and analog supply current: 49.00 [mA] 82.00 [mA]  
Slave digital and analog supply current : 35.00 [mA] 82.00 [mA]

BIN status: 0 (perfect chip)

Digital tests (minimum Vdd voltage [V] @40MHz and @50MHz) :

|                  |     |     |
|------------------|-----|-----|
| Config I/O test: | 3.3 | 3.3 |
| Address test:    | 3.3 | 3.3 |
| L1 counter test: | 3.3 | 3.3 |
| Input reg. test: | 3.3 | 3.3 |
| Input lin. test: | 3.3 | 3.3 |
| Fake Slv. test:  | 3.3 | 3.3 |
| Slave test:      | 3.3 | 3.4 |
| Token test:      | 3.3 | 3.3 |

Digital perfect pattern: yes

Analog data:

Chip gain / sigma : 57.71 / 1.41 [mV/fC]  
Chip offset / sigma : 16.42 / 9.21 [mV]  
Chip output noise (max): 11.61 [mV]  
Chip output noise (min): 5.37 [mV]  
Quality factor: 6.19

DAC data:

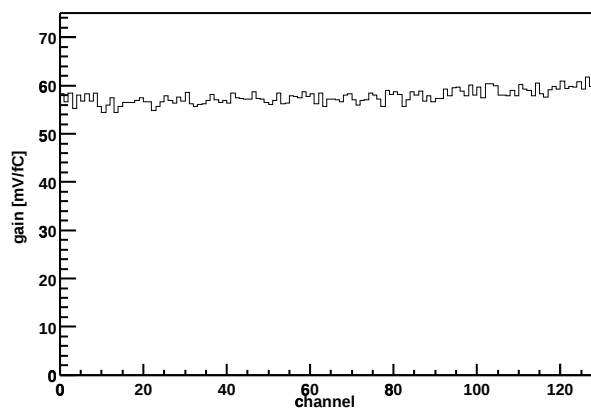
|                      |               |             |         |
|----------------------|---------------|-------------|---------|
| Threshold DAC slope: | 2.53 [mV/bit] | lin. error: | 0.4 [%] |
| Preamp. DAC slope:   | 2.90 [mV/bit] | lin. error: | 4.1 [%] |
| Shaper DAC slope:    | 1.80 [mV/bit] | lin. error: | 6.0 [%] |

Range DAC data:

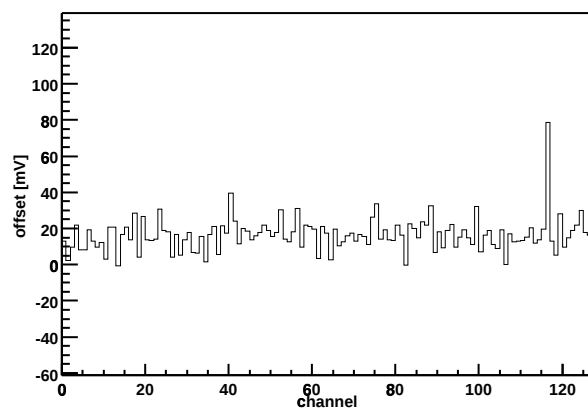
|           |            |
|-----------|------------|
| range 0 : | 57.9 [mV]  |
| range 1 : | 112.7 [mV] |
| range 2 : | 166.9 [mV] |
| range 3 : | 218.7 [mV] |

Other data is available on plots following this page.

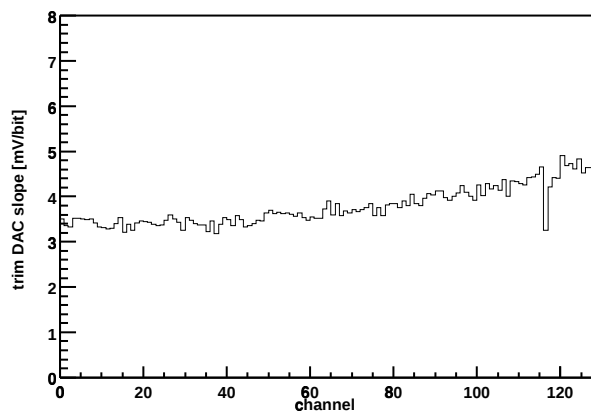
Chip Z36459A-W04-X06-Y13 Gain vs. channel



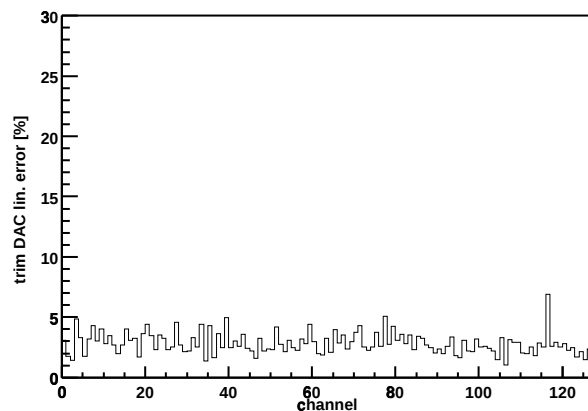
Chip Z36459A-W04-X06-Y13 Offset vs. channel



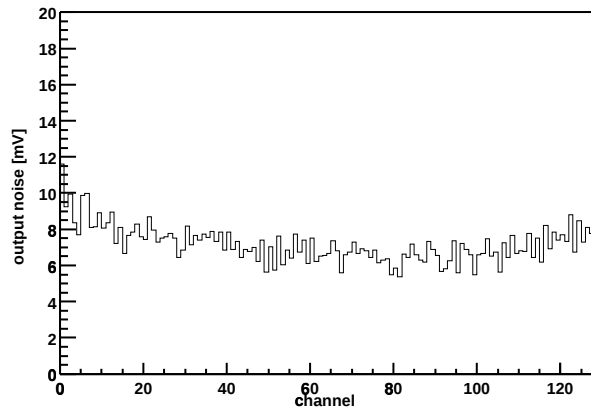
Chip Z36459A-W04-X06-Y13 Trim DAC slope vs. channel



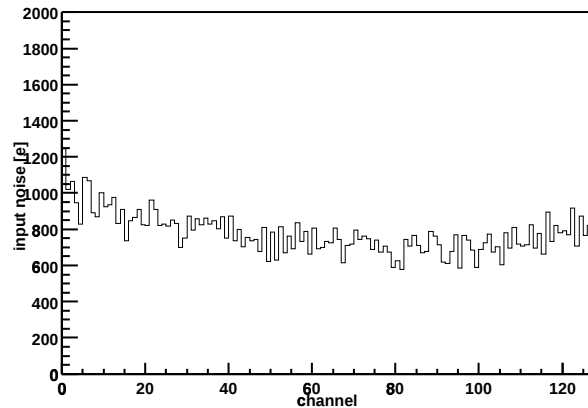
Chip Z36459A-W04-X06-Y13 trim DAC lin. error



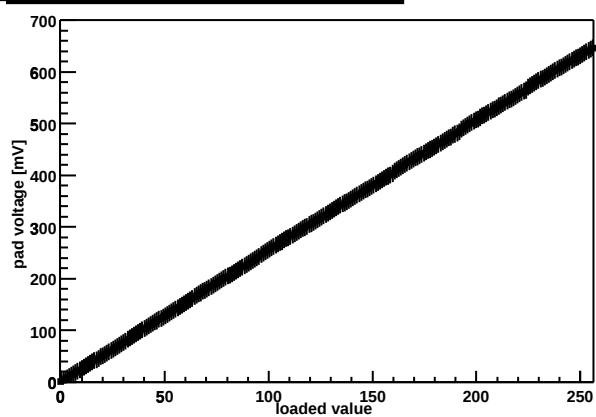
Chip Z36459A-W04-X06-Y13 Output noise vs. channel



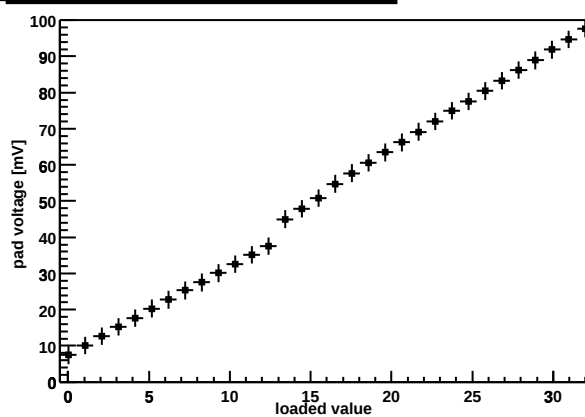
Chip Z36459A-W04-X06-Y13 Input noise vs. channel



Chip Z36459A-W04-X06-Y13 threshold DAC



Chip Z36459A-W04-X06-Y13 preamp DAC



Chip Z36459A-W04-X06-Y13 shaper DAC

