

WIREBONDS STATUS

dE				E-front				E-back				Last checked	
strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	date	detector
1				1				1				9/16/07	dE, Ef, Eb
2				2				2					
3				3				3					
4				4				4					
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31				31				31					
32				32				32					

Legend:

X = bond missing / = bond broken ~ = bond damaged

TJR 2

ΔE = 2266-4
E = 2085-6

Front Side Data

Processor **BB7-1500**

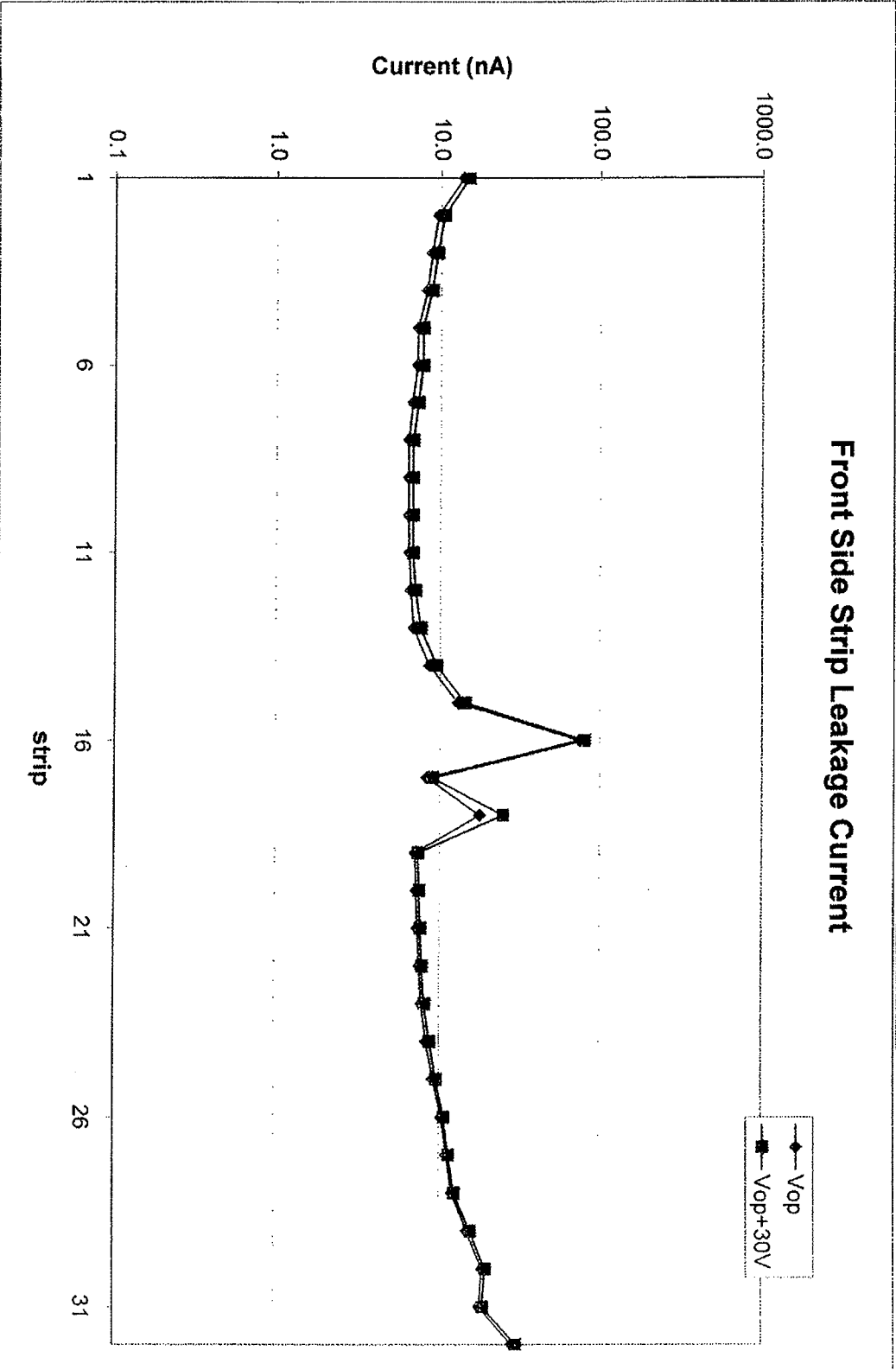
Wafer No. **2085-6**

Thickness: **1490** μm

VOLTAGE Op. **280** Volts

BB7-1500

Strip	Vop	Vop+30V
1	13.842	14.911
2	9.595	10.483
3	8.786	9.493
4	8.217	8.804
5	7.227	7.772
6	7.16	7.755
7	6.723	7.29
8	6.352	6.795
9	6.337	6.755
10	6.345	6.753
11	6.425	6.8
12	6.559	7.027
13	6.835	7.591
14	8.576	9.486
15	12.815	14.262
16	74.73	80.17
17	8.284	8.941
18	17.532	24.45
19	7.078	7.369
20	7.174	7.503
21	7.357	7.655
22	7.527	7.816
23	7.806	8.132
24	8.351	8.75
25	9.204	9.58
26	10.291	10.665
27	11.07	11.413
28	11.97	12.377
29	14.848	15.581
30	18.43	19.3
31	17.625	18.5
32	27.97	29.85
Total	389.04	420.039



INDIANA UNIVERSITY

BACK RESISTANCE MEASUREMENT:

DATE: 04/06/03
DEVICE TYPE: HIRA BB7-D/S-1500
DEVICE NUMBER: 2085-6
THICKNESS: 1490 μ M
OPERATING VOLTAGE: 280V

CHANNEL	OV	V.OP	V.OP + 30V
1-2	2.5K Ω	121K Ω	>1M Ω
2-3	2.7K Ω	213K Ω	>1M Ω
3-4	2.7K Ω	643K Ω	>1M Ω
4-5	2.6K Ω	8.2K Ω	>1M Ω
5-6	2.6K Ω	185K Ω	>1M Ω
6-7	2.6K Ω	256K Ω	>1M Ω
7-8	2.7K Ω	272K Ω	>1M Ω
8-9	2.9K Ω	344K Ω	>1M Ω
9-10	2.8K Ω	231K Ω	>1M Ω
10-11	2.7K Ω	>1M Ω	>1M Ω
11-12	2.6K Ω	>1M Ω	>1M Ω
12-13	2.6K Ω	>1M Ω	>1M Ω
13-14	2.7K Ω	>1M Ω	>1M Ω
14-15	2.8K Ω	110K Ω	>1M Ω
15-16	2.8K Ω	>1M Ω	>1M Ω
16-17	2.7K Ω	>1M Ω	950K Ω
17-18	2.7K Ω	>1M Ω	>1M Ω
18-19	2.6K Ω	>1M Ω	>1M Ω
19-20	2.6K Ω	733K Ω	>1M Ω
20-21	2.5K Ω	>1M Ω	>1M Ω
21-22	2.5K Ω	182K Ω	>1M Ω
22-23	2.6K Ω	116K Ω	>1M Ω
23-24	2.7K Ω	404K Ω	>1M Ω
24-25	2.7K Ω	134K Ω	>1M Ω
25-26	2.7K Ω	277K Ω	788K Ω
26-27	2.6K Ω	501K Ω	>1M Ω
27-28	2.6K Ω	240K Ω	>1M Ω
28-29	2.6K Ω	283K Ω	>1M Ω
29-30	2.5K Ω	182K Ω	>1M Ω
30-31	2.5K Ω	175K Ω	809K Ω
31-32	2.7K Ω	149K Ω	>1M Ω

Resolution Plot

HIRA BB7-1500

Wafer No.: 2085-6

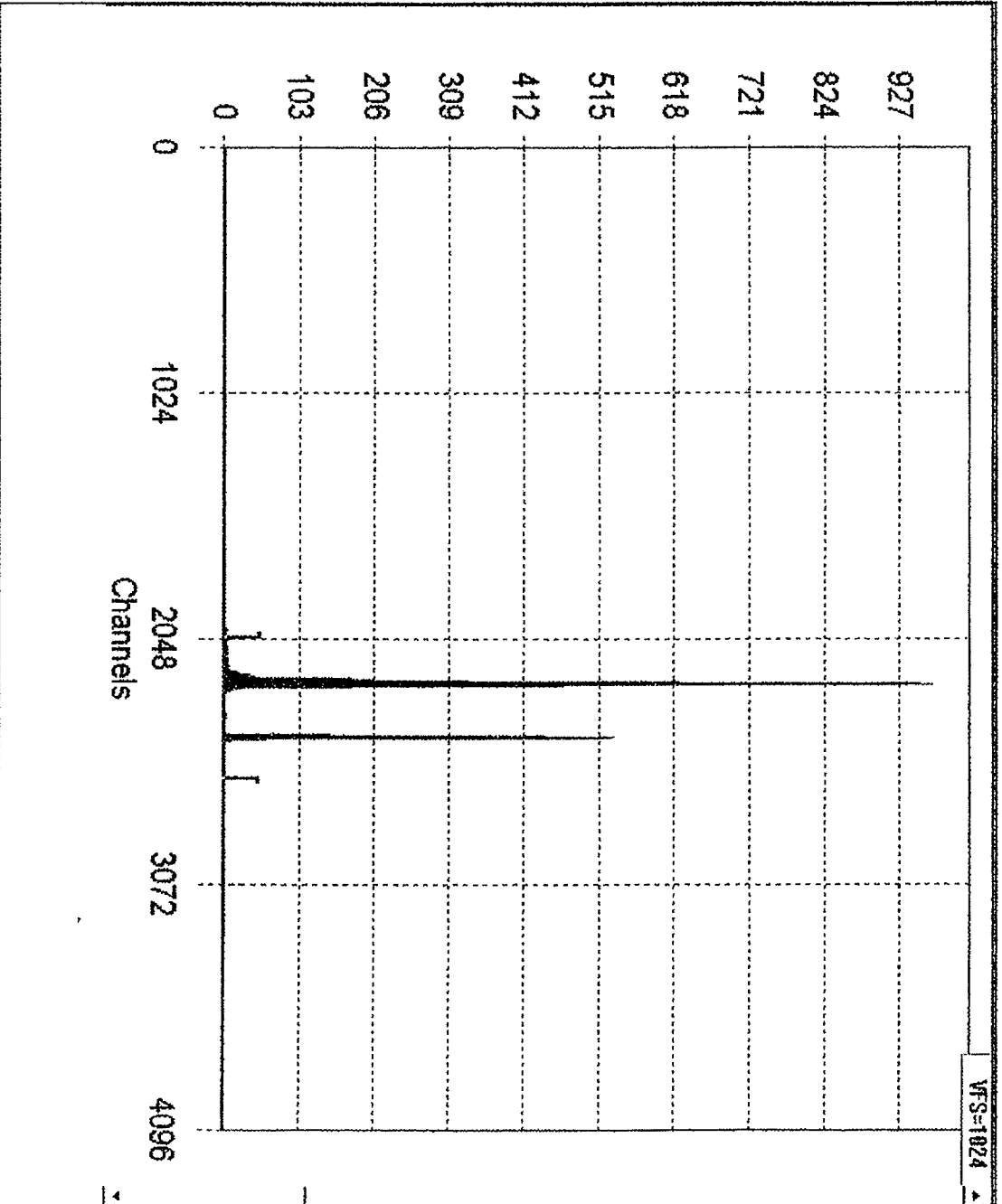
Thickness: 1490 μm

JUNCTION

DET LINE: 41.7 KeV
SYSTEM: 21 KeV
CAL: 36 KeV

OHMIC

DET LINE: 43 KeV
SYSTEM: 20.8 KeV
CALC: 37.5 KeV



BIAS VOLTS= 300 V Leakage 500 nA

Source Am 241

Rise Time 1

Flat Top 0

Si-detector Inspection Record

Date: 9/16/07

Time: 7:56 pm

Tel n.: 2

Inspected detector(s): dE, E(f+b)

1st inspector: Vlad Kenz

2nd inspector: Jenny Lee

WIREBONDS STATUS

dE				E-front				E-back			
strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd
1				1				1			
2				2				2			
3				3				3			
4				4				4			
5				5				5			
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31				31				31			
32				32				32			

Legend:

X = bond missing

/ = bond broken

- = bond damaged

Overall detector status:

(e.g. dusty surface, scratches, dirty frame and/or cable, status of telescope can ...)

inspection after Turbo broke down + vacuum inspection -
 All wirebonds are okay.

dowel pins are missing for the frames on E^s and mylar foil

Noise tests of detector n.: 2085-6 in telescope n.: 2

Date		8-30-07	10-10-07	10-31-07											
electronics		CLASSIC	CHIP	CHIP											
E back	Chip 0 or shaper 0	chn 0	4.2mV	16mV	24mV										
		1	4.2	40	~85mV										
		2	4.2	34	5										
		3	7.8	33	35										
		4	4.2	30	35										
		5	4.2	31	35										
		6	4.2	27	35										
		7	4.2	28	35										
		8	4.2	28	35										
		9	4.2	28	35										
		10	4.2	27	35										
		11	4.2	28	35										
		12	4.2	28	35										
		13	4.2	38	~85mV										
		14	4.2	27	35										
	15	4.2	22	35											
	Chip 1 or shaper 1	chn 0	~2.0mV	42mV	35										
		1	4	29	35										
		2	4	29	35										
		3	4	29	35										
		4	4	29	35										
		5	4	28	35										
		6	4	28	35										
		7	4	28	35										
		8	4	28	35										
		9	4	27	35										
		10	4	27	35										
		11	4	27	35										
		12	4	27	35										
		13	4	27	35										
14		4	27	35											
15	4	60mV	~100mV												
E front	Chip 0 or shaper 2	chn 0	~5mV	~35mV	~50mV										
		1	5	30	~35										
		2	5	30	35										
		3	5	30	35										
		4	5	30	35										
		5	5	30	35										
		6	5	30	35										
		7	5	30	~45mV										
		8	32mV	30	35										
		9	32mV	35	35										
		10	5	35	35										
		11	5	35	35										
		12	5	35	35										
		13	5	35	35										
		14	5	35	~40mV										
	15	~9mV	37mV	~45mV											
	Chip 1 or shaper 3	chn 0	~6mV	±30	37										
		1	5	30	37										
		2	5	30	37										
		3	5	30	37										
		4	5	30	37										
		5	5	30	37										
		6	5	30	37										
		7	5	30	37										
		8	5	~100mV	37										
		9	5	30	37										
		10	5	30	37										
		11	5	30	37										
		12	5	30	37										
		13	5	30	37										
14		5	30	37											
15	5	~35mV	~38mV												

identical
setup
before and
after 05133

Si-detector Inspection Record

Date: 10/5/2007 **Time:** 2:00am **Tel n.:** 82

Inspected detector(s): dE(2266-4) + E_F(708T-6)

What occasion : dE part back the car

1st inspector: Ulad HENZL

2nd inspector: Daniela HENZLOVA

WIREBONDS STATUS

dE				E-front				E-back			
strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd	strip n.:	1st	2nd	3rd
1		X		1				1			
2				2				2			
3			X	3				3			
4		~		4				4			
5				5				5			
6	~			6				6			
7				7				7			
8		~		8				8			
9	~			9				9			
10				10				10			
11				11				11			
12	~			12				12			
13				13				13			
14				14				14			
15				15				15			
16	~			16		X		16			
17				17				17			
18				18				18			
19				19				19			
20				20				20			
21				21				21			
22				22				22			
23				23				23			
24				24				24			
25				25				25			
26			~	26				26			
27				27				27			
28				28				28			
29				29				29			
30				30				30			
31				31				31			
32				32				32			

Legend: X wirebonds crossed

X = bond missing

/ = bond broken

~ = bond damaged

Overall detector status:

(e.g. dusty surface, scratches, dirty frame and/or cable, status of telescope can ...)

dE surface slightly foggy
dE+E_F surfaces clean. WFA dry Ni