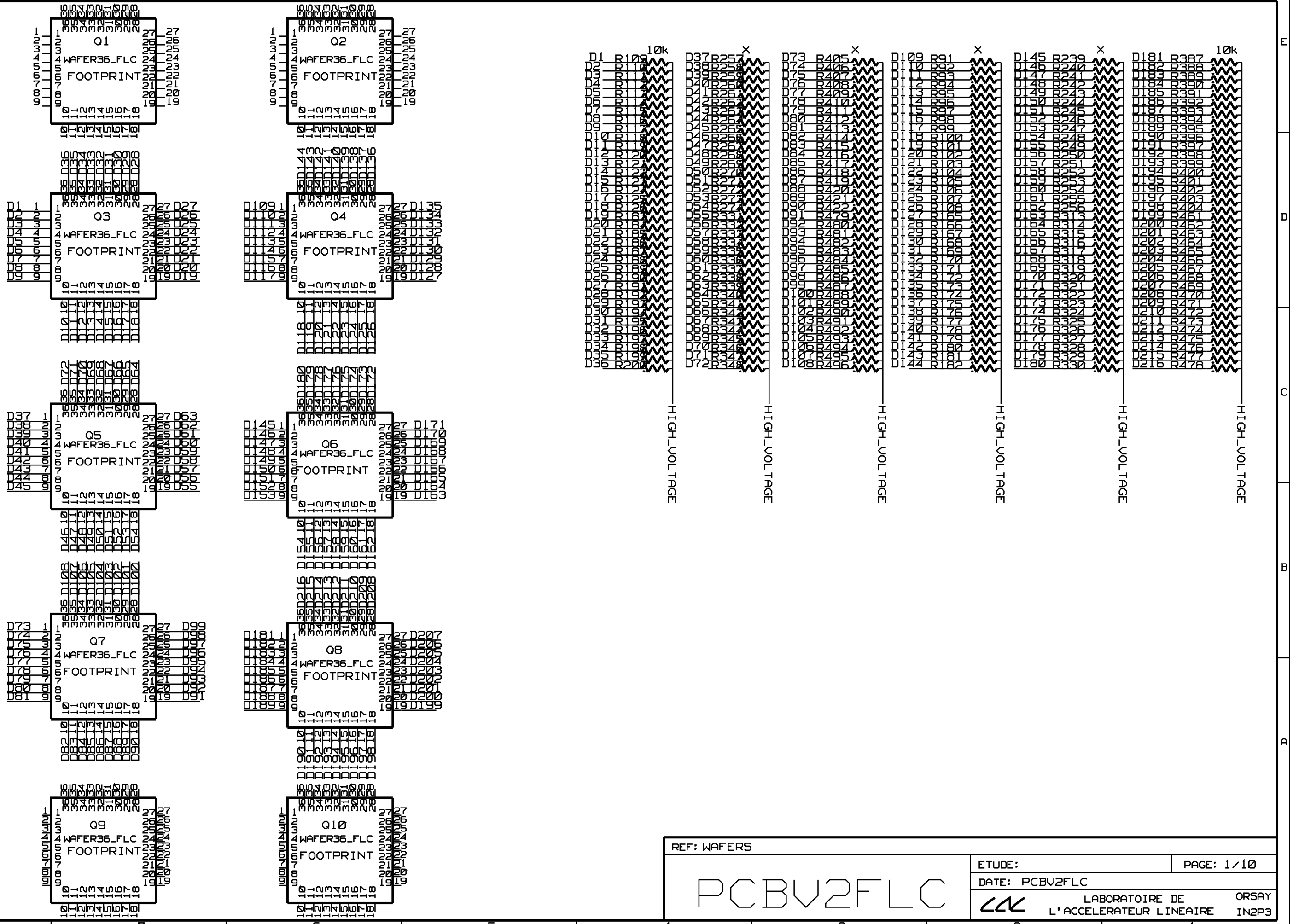
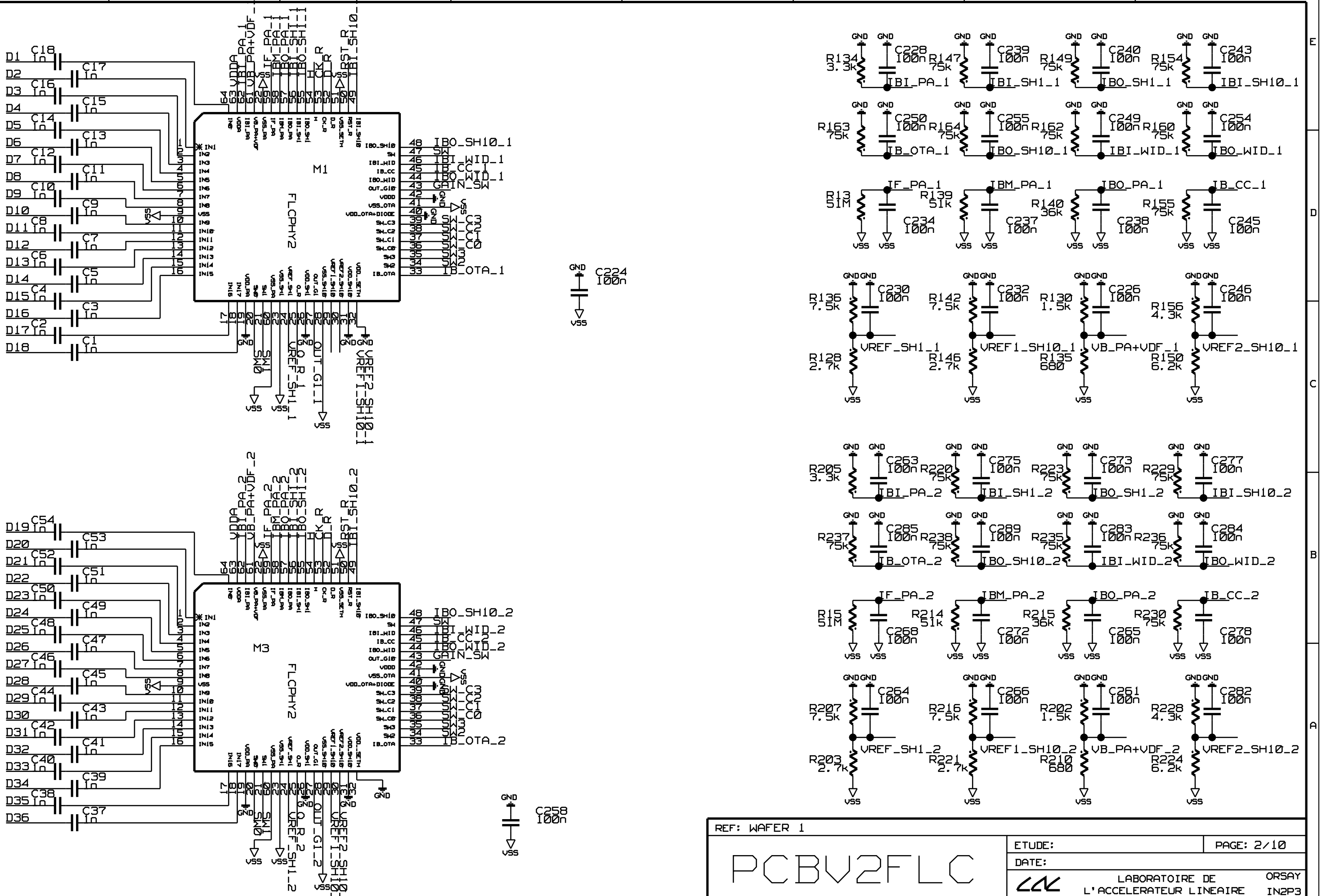

Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
WAFER36_FLC
FOOTPRINT
10k
X
HIGH_VOLTAGE
REF: WAFERS
PCBV2FLC
ETUDE:
PAGE: 1/10
DATE: PCBV2FLC
LABORATOIRE DE L'ACCELERATEUR LINEAIRE
ORSAY IN2P3


M1
FLCPHY2
M3
FLCPHY2
IBO_SH10_1
IBI_WID_1
IB_CC_1
IBO_WID_1
GAIN_SW
IB_OTA_1
IBO_SH10_2
IBI_WID_2
IB_CC_2
IBO_WID_2
GAIN_SW
IB_OTA_2
C224 100n
C258 100n
R134 3.3k
R147 75k
R149 75k
R154 75k
R163 75k
R164 75k
R162 75k
R160 75k
R13 51M
R139 51k
R140 36k
R155 75k
R136 7.5k
R142 7.5k
R130 1.5k
R156 4.3k
R128 2.7k
R146 2.7k
R135 680
R150 6.2k
R205 3.3k
R220 75k
R223 75k
R229 75k
R237 75k
R238 75k
R235 75k
R236 75k
R15 51M
R214 51k
R215 36k
R230 75k
R207 7.5k
R216 7.5k
R202 1.5k
R228 4.3k
R203 2.7k
R221 2.7k
R210 680
R224 6.2k
VREF_SH1_1
VREF1_SH10_1
VB_PA+VDF_1
VREF2_SH10_1
VREF_SH1_2
VREF1_SH10_2
VB_PA+VDF_2
VREF2_SH10_2
REF: WAFER 1
PCBV2FLC
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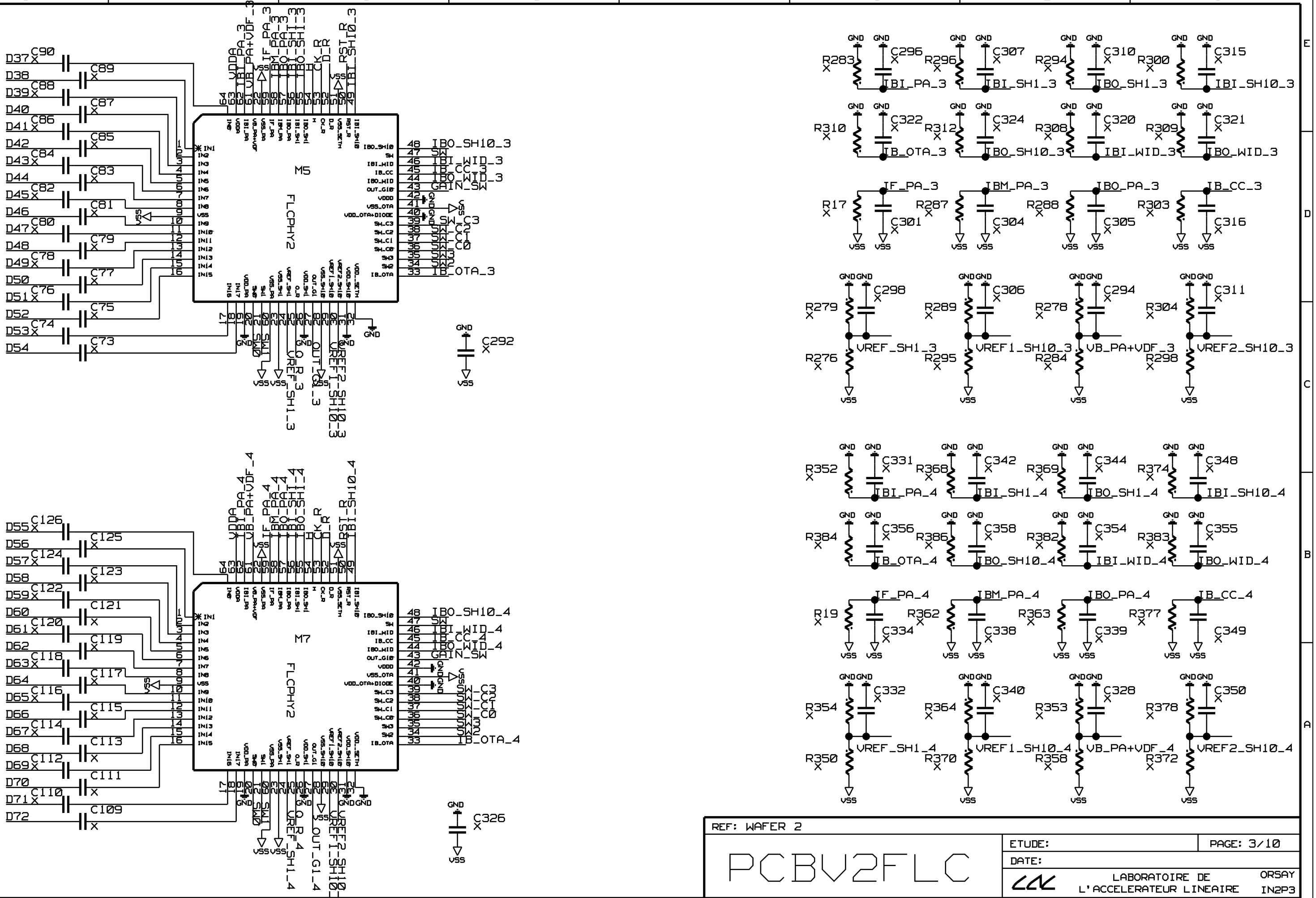
PAGE: 2/10
DATE:
LABORATOIRE DE L'ACCELERATEUR LINEAIRE
ORSAY IN2P3


M5
FLCPHY2
M7
FLCPHY2
IBO_SH10_3
IBI_WID_3
IBO_WID_3
GAIN_SW
IB_OTA_3
IBO_SH10_4
IBI_WID_4
IBO_WID_4
GAIN_SW
IB_OTA_4
R283 C296 IBI_PA_3
R296 C307 IBI_SH1_3
R294 C310 IBO_SH1_3
R300 C315 IBI_SH10_3
R310 C322 IB_OTA_3
R312 C324 IBO_SH10_3
R308 C320 IBI_WID_3
R309 C321 IBO_WID_3
R17 C301 IF_PA_3
R287 C304 IBM_PA_3
R288 C305 IBO_PA_3
R303 C316 IB_CC_3
R279 C298 R276 VREF_SH1_3
R289 C306 R295 VREF1_SH10_3
R278 C294 R284 VB_PA+VDF_3
R304 C311 R298 VREF2_SH10_3
R352 C331 IBI_PA_4
R368 C342 IBI_SH1_4
R369 C344 IBO_SH1_4
R374 C348 IBI_SH10_4
R384 C356 IB_OTA_4
R386 C358 IBO_SH10_4
R382 C354 IBI_WID_4
R383 C355 IBO_WID_4
R19 C334 IF_PA_4
R362 C338 IBM_PA_4
R363 C339 IBO_PA_4
R377 C349 IB_CC_4
R354 C332 R350 VREF_SH1_4
R364 C340 R370 VREF1_SH10_4
R353 C328 R358 VB_PA+VDF_4
R378 C350 R372 VREF2_SH10_4
C292
C326
REF: WAFER 2
PCBV2FLC
ETUDE:
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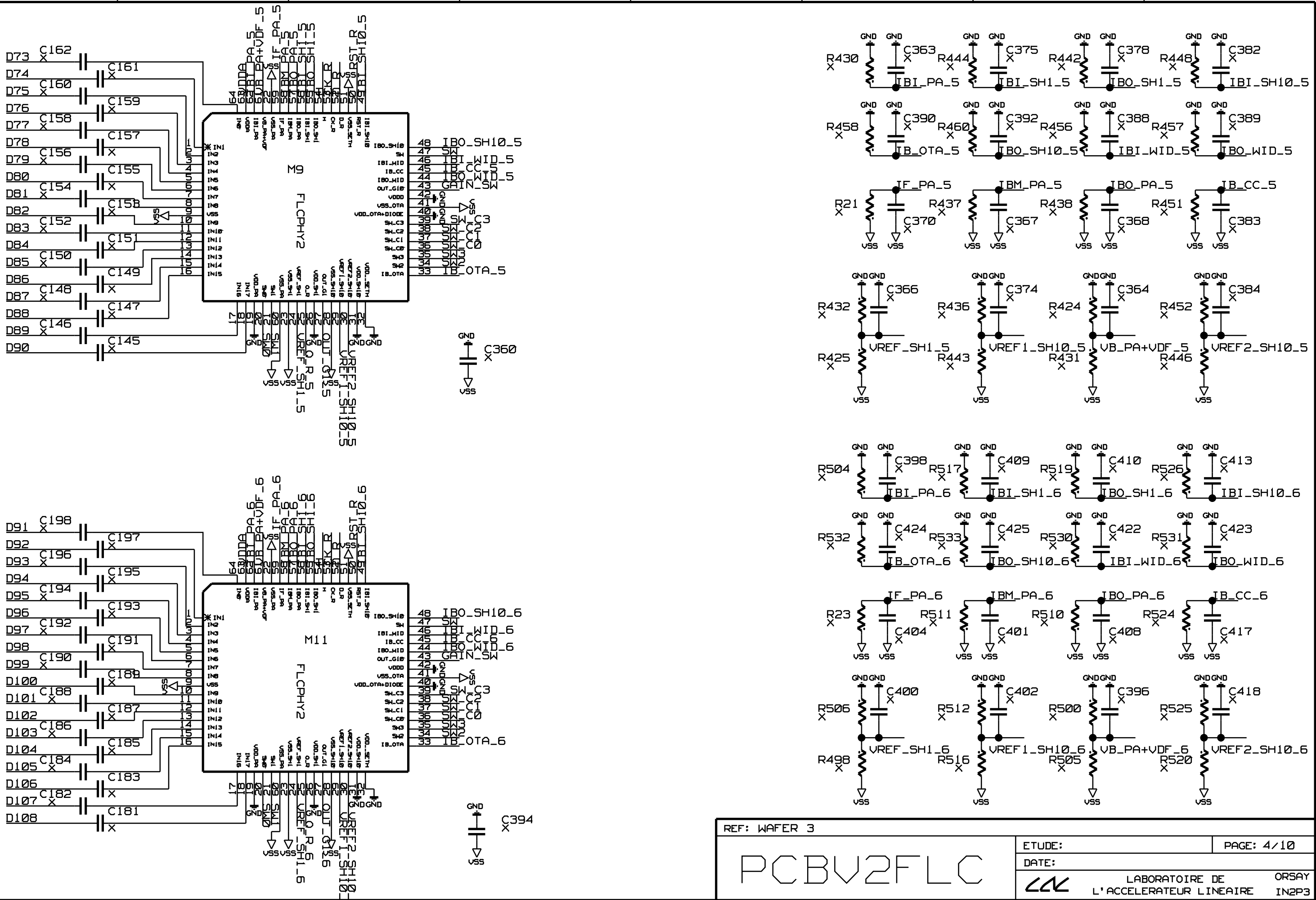
DATE:
LABORATOIRE DE L'ACCELERATEUR LINEAIRE
ORSAY IN2P3


M9
FLCPHY2
M11
FLCPHY2
IBO_SH10_5
IBI_WID_5
IBO_WID_5
GAIN_SW
IB_OTA_5
IBO_SH10_6
IBI_WID_6
IBO_WID_6
GAIN_SW
IB_OTA_6
C360
C394
R430
R444
R442
R448
R458
R460
R456
R457
R21
R437
R438
R451
R432
R436
R424
R452
R425
R443
R431
R446
R504
R517
R519
R526
R532
R533
R530
R531
R23
R511
R510
R524
R506
R512
R500
R525
R498
R516
R505
R520
VREF_SH1_5
VREF1_SH10_5
VB_PA+VDF_5
VREF2_SH10_5
VREF_SH1_6
VREF1_SH10_6
VB_PA+VDF_6
VREF2_SH10_6
REF: WAFER 3
PCBV2FLC
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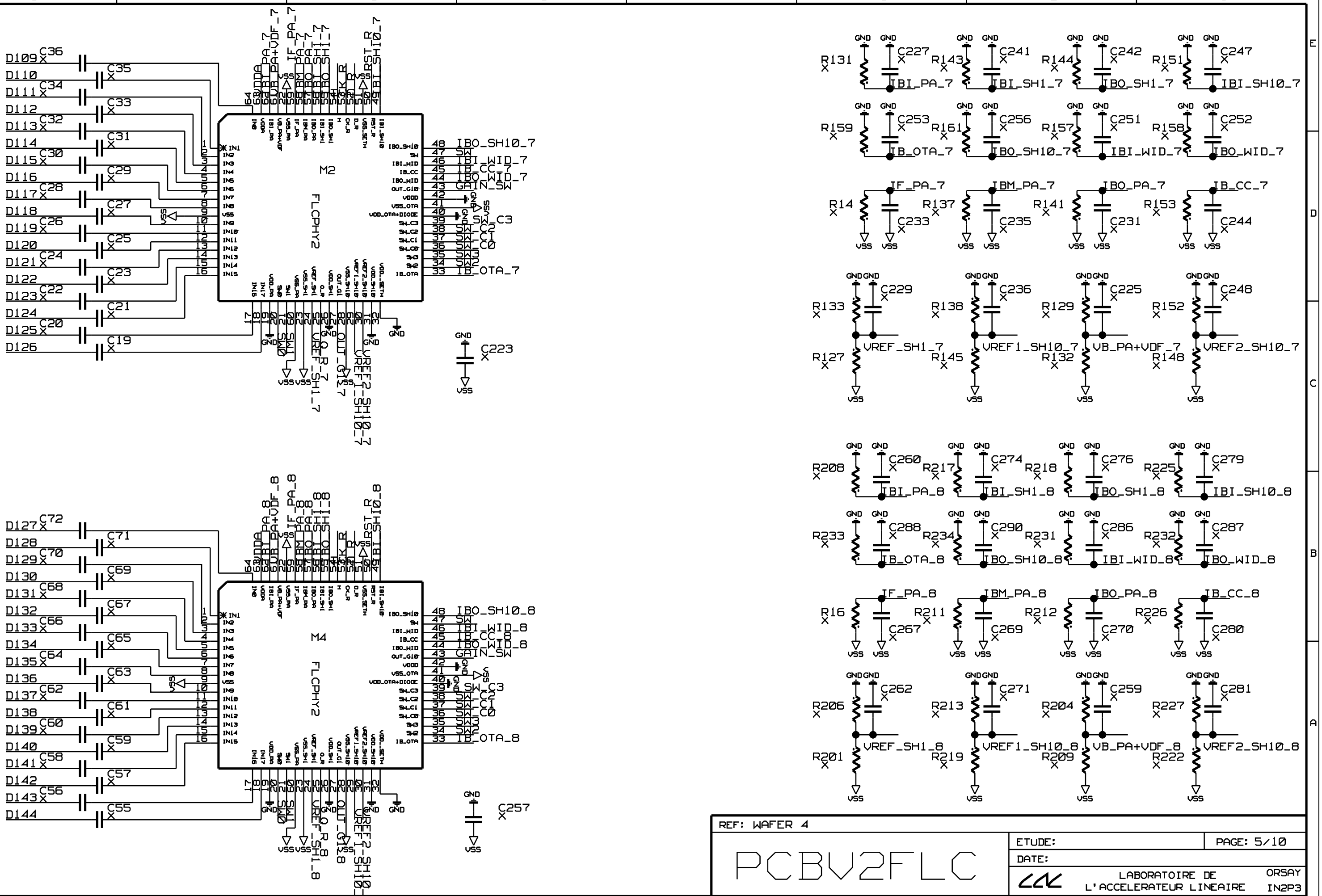
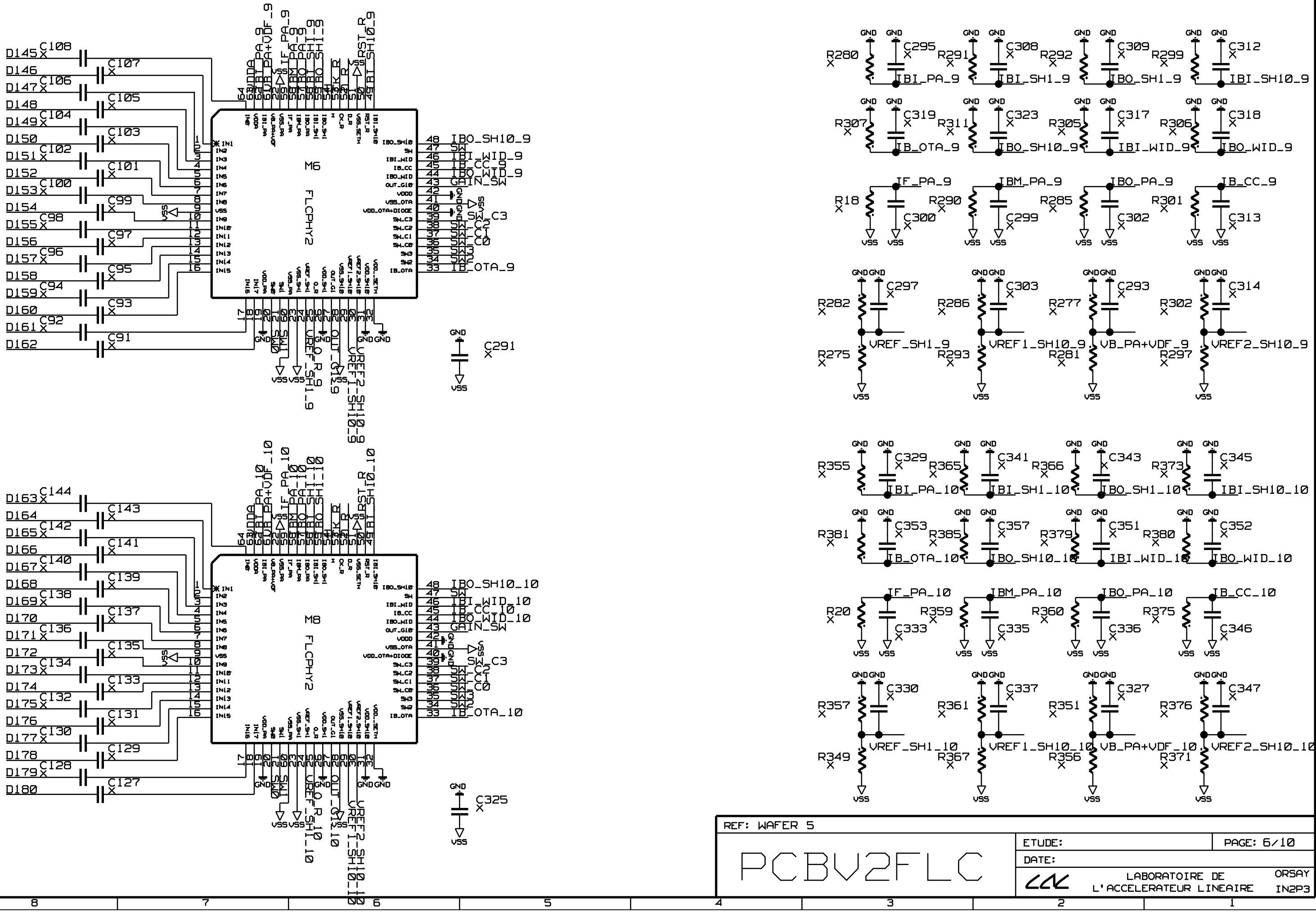
LABORATOIRE DE L'ACCELERATEUR LINEAIRE
ORSAY IN2P3


M2
FLCPHY2
M4
FLCPHY2
IBO_SH10_7
IBI_WID_7
IBO_WID_7
GAIN_SW
IB_OTA_7
IF_PA_7
IBM_PA_7
IBO_PA_7
IBI_PA_7
IBI_SH1_7
IBO_SH1_7
IBI_SH10_7
IB_CC_7
IB_OTA
VB_PA+VDF_7
VREF_SH1_7
VREF1_SH10_7
VREF2_SH10_7
IBO_SH10_8
IBI_WID_8
IBO_WID_8
IF_PA_8
IBM_PA_8
IBO_PA_8
IBI_PA_8
IBI_SH1_8
IBO_SH1_8
IBI_SH10_8
IB_CC_8
IB_OTA_8
VB_PA+VDF_8
VREF_SH1_8
VREF1_SH10_8
VREF2_SH10_8
REF: WAFER 4
PCBV2FLC
ETUDE:
PAGE: 5/10
DATE:
LABORATOIRE DE L'ACCELERATEUR LINEAIRE
ORSAY IN2P3


M6
FLCPHY2
M8
FLCPHY2
IBO_SH10_9
IBI_WID_9
IBO_WID_9
GAIN_SW
IB_OTA_9
IBO_SH10_10
IBI_WID_10
IBO_WID_10
GAIN_SW
IB_OTA_10
REF: WAFER 5
PCBV2FLC
ETUDE:
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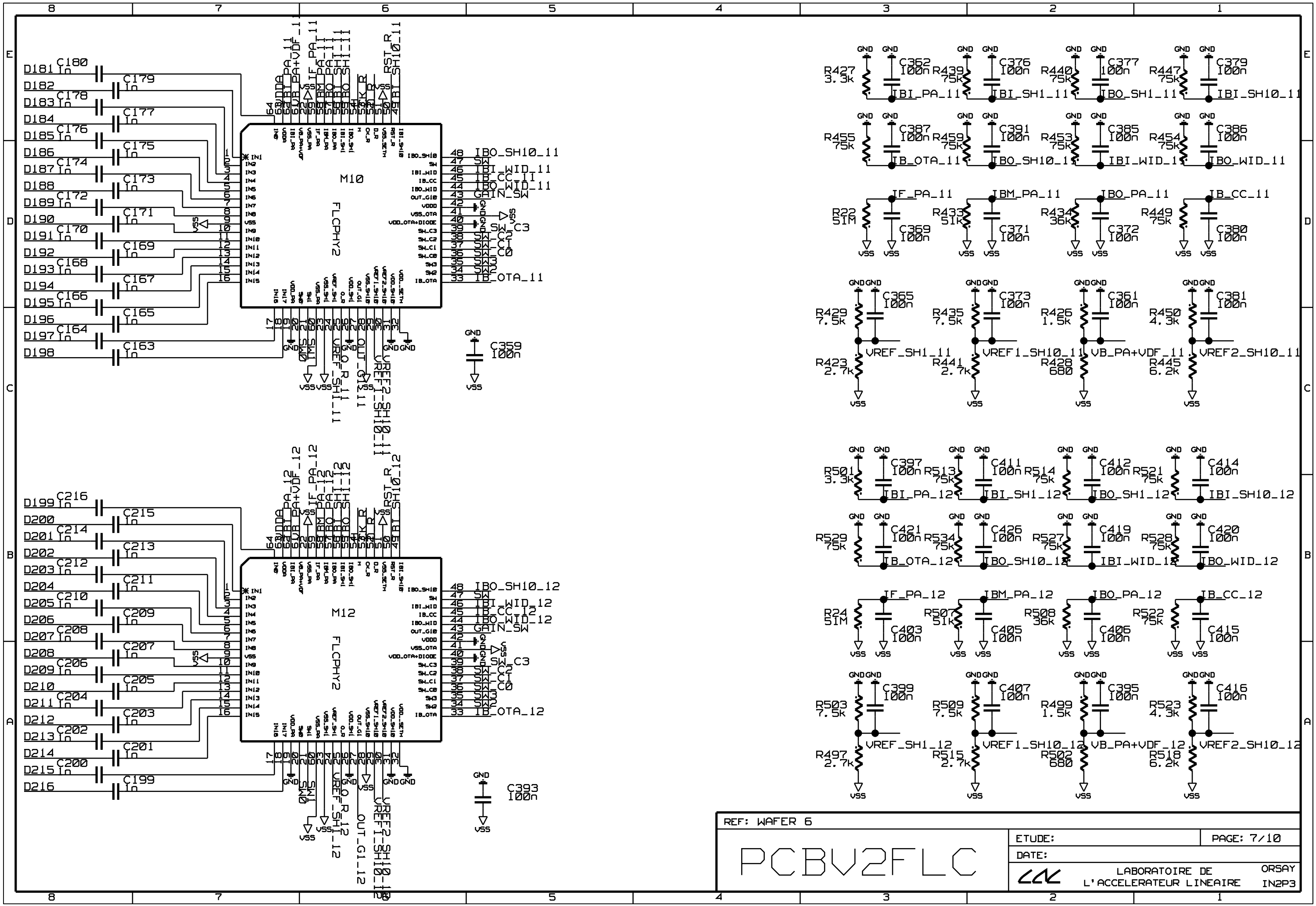
DATE:
LABORATOIRE DE L'ACCELERATEUR LINEAIRE
ORSAY IN2P3


M10
FLCPHY2
M12
FLCPHY2
IBO_SH10_11
IBI_WID_11
IB_CC_11
IBO_WID_11
GAIN_SW
IB_OTA_11
IBO_SH10_12
IBI_WID_12
IB_CC_12
IBO_WID_12
GAIN_SW
IB_OTA_12
R427 3.3k
R439 75k
R440 75k
R447 75k
R455 75k
R459 75k
R453 75k
R454 75k
R22 51M
R433 51k
R434 36k
R449 75k
R429 7.5k
R435 7.5k
R426 1.5k
R450 4.3k
R423 2.7k
R441 2.7k
R428 680
R445 6.2k
R501 3.3k
R513 75k
R514 75k
R521 75k
R529 75k
R534 75k
R527 75k
R528 75k
R24 51M
R507 51k
R508 36k
R522 75k
R503 7.5k
R509 7.5k
R499 1.5k
R523 4.3k
R497 2.7k
R515 2.7k
R502 680
R518 6.2k
REF: WAFER 6
PCBV2FLC
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LABORATOIRE DE L'ACCELERATEUR LINEAIRE
ORSAY IN2P3

-------DC SUPPLY-------

J2

C222 68U

C221 68U

C220 68U

C219 1u

R88 10k

HIGH_VOLTAGE

GND=SHIELDING

J1

---- SCSI connector----

CON68P

ATTENTION A LA NUMEROTATION

P1 Q_R_1

P3 Q_R_6

P2 Q_R_7

P4 Q_R_12

M27 SN74ALS133D SOIC GND=VSS ; VCC=GND

OUT_NAND

SHIELDING

R80 200

R90 200

-------------------LVDS to CMOS conversion----------------------------

M16 DS26LS32CM SOIC VCC=GND; GND=VSS

26LS32

D1 R33 1.6k

GAIN_SW

T_CALIB2

NO_T_CALIB2

M23 DS26LS32CM SOIC VCC=GND; GND=VSS

H

CK_R

D_R

RST_R

M18 DS26LS32CM SOIC VCC=GND; GND=VSS

ENABLE 1

ENABLE 2

ENABLE 3

ENABLE 4

M17 DS26LS32CM SOIC VCC=GND; GND=VSS

ENABLE 5

ENABLE 6

T_CALIB1

NO_T_CALIB1

M15 VCC=VP6 SOIC DS26LS31CM

26LS531

TYPE_ID_3

TYPE_ID_2

TYPE_ID_1

TYPE_ID_0

----- TYPE ID --------

--WIDLAR/CC switch--

--feedback capacitance switches--

SW1 DTS108

ETD_DAS_8X3

---Compensation capacitance switches---

REF: connectors

PCBV2FLC

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LABORATOIRE DE L'ACCELERATEUR LINEAIRE ORSAY IN2P3

M13
CQFP
44Z

FLC_6SWITCH

Calibration VFE0

M14
CQFP

FLC_6SWITCH

Calibration VFE1

M19
I145
SOIC
OP497S

M19
I146
SOIC
OP497S

M19
I147
SOIC
OP497S

REF:Calibration

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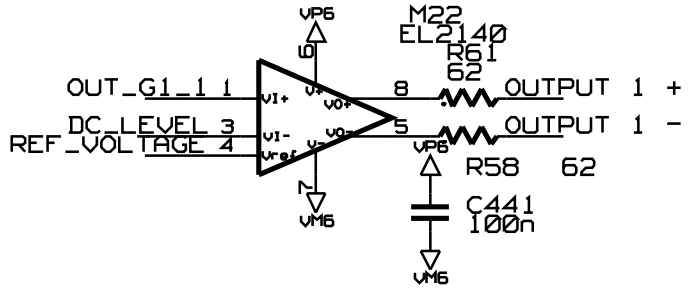
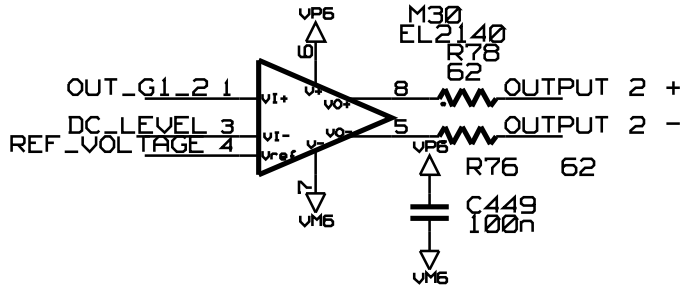
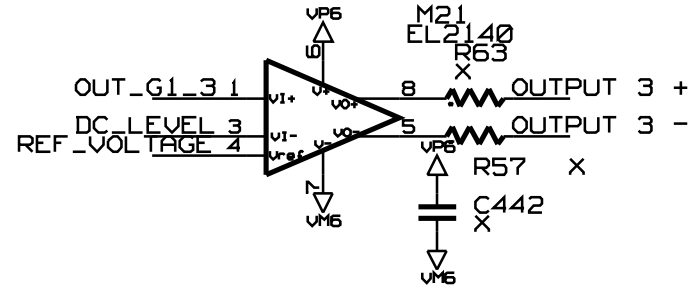
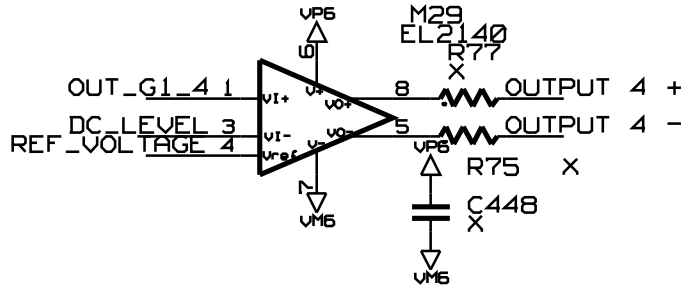
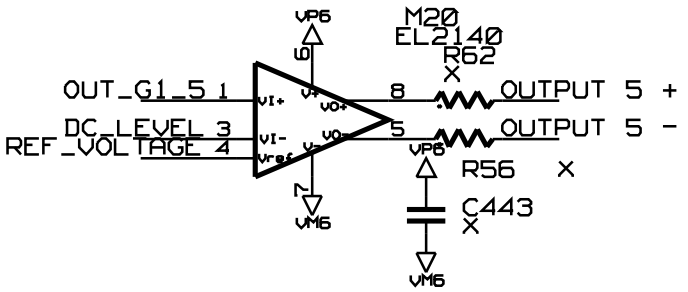
LABORATOIRE DE L'ACCELERATEUR LINEAIRE ORSAY IN2P3

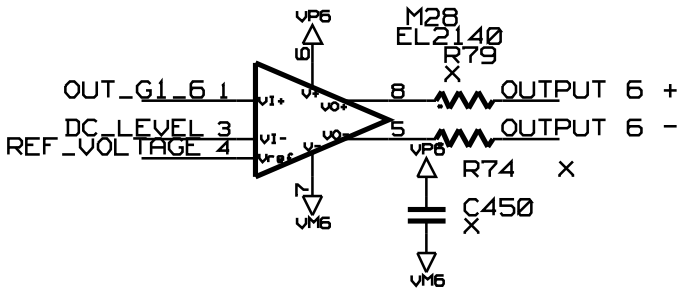


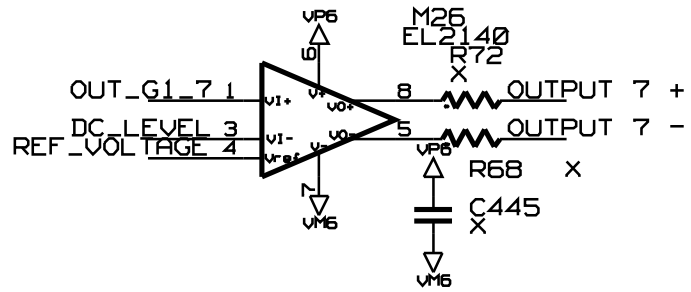


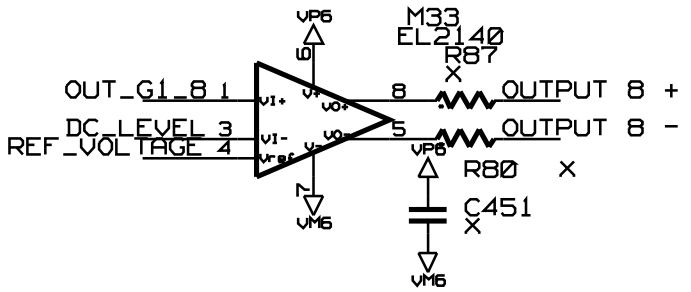


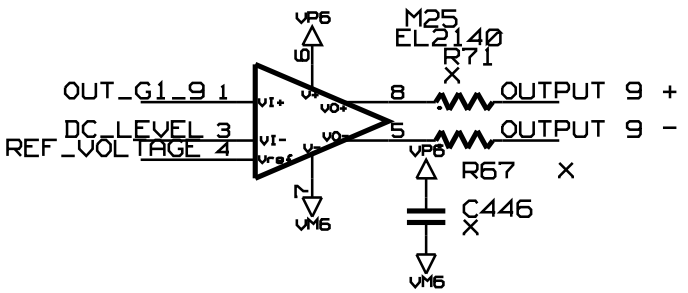


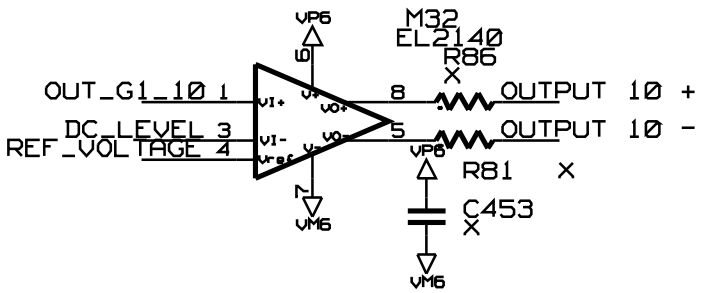


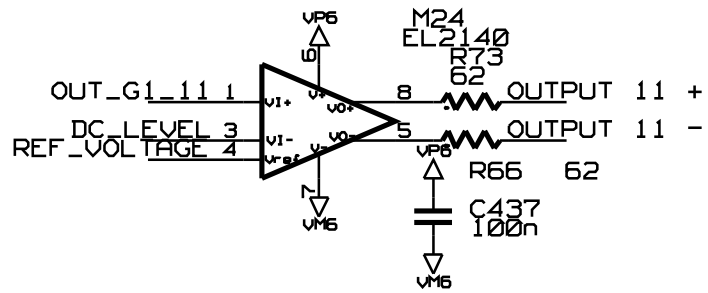


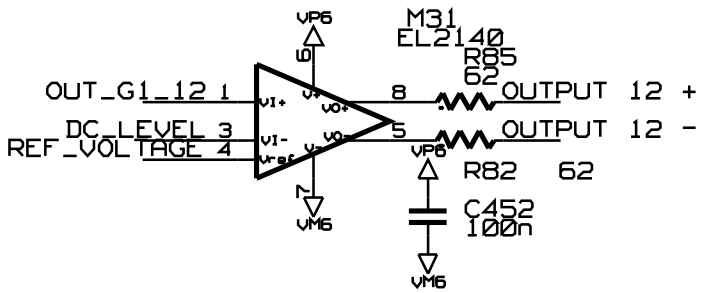


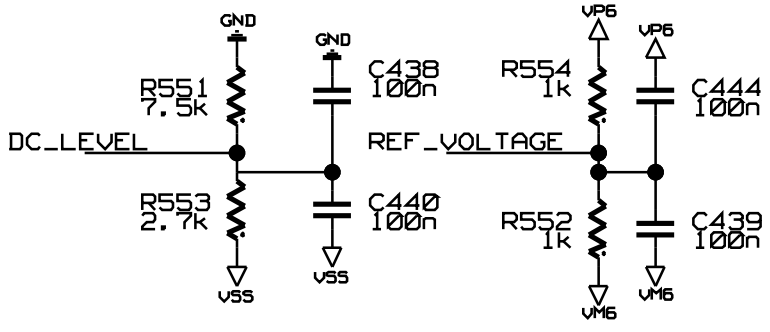


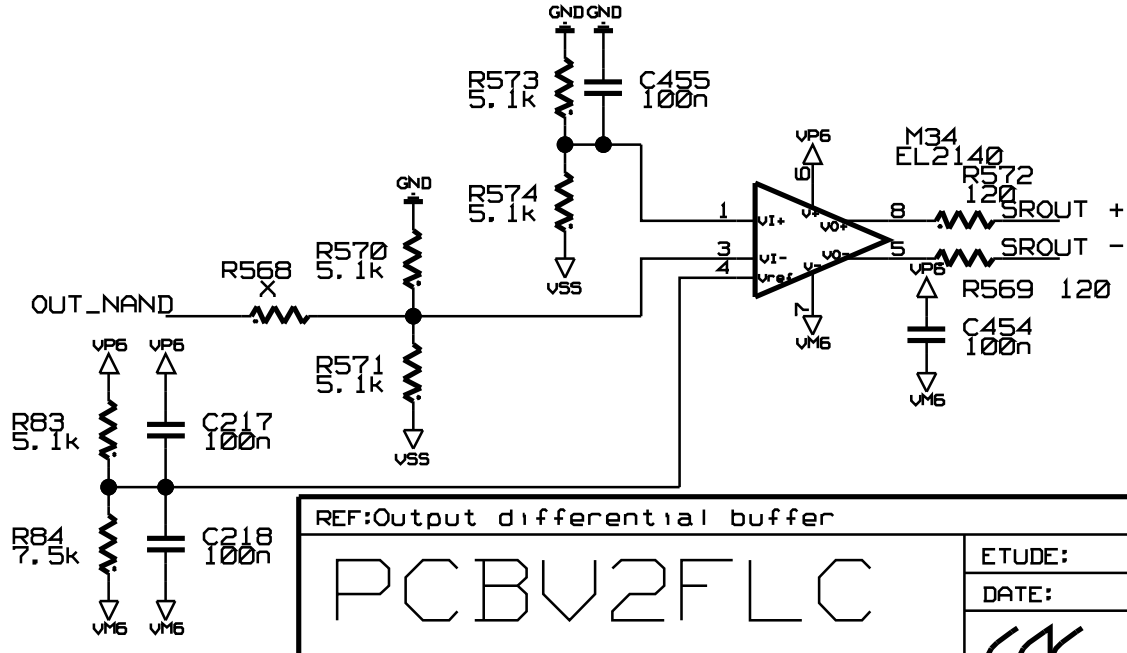












REF:Output differential buffer

PCBV2FLC

ETUDE:	PAGE:10/10
DATE:	
LABORATOIRE DE L'ACCELERATEUR LINEAIRE	ORSAY IN2P3