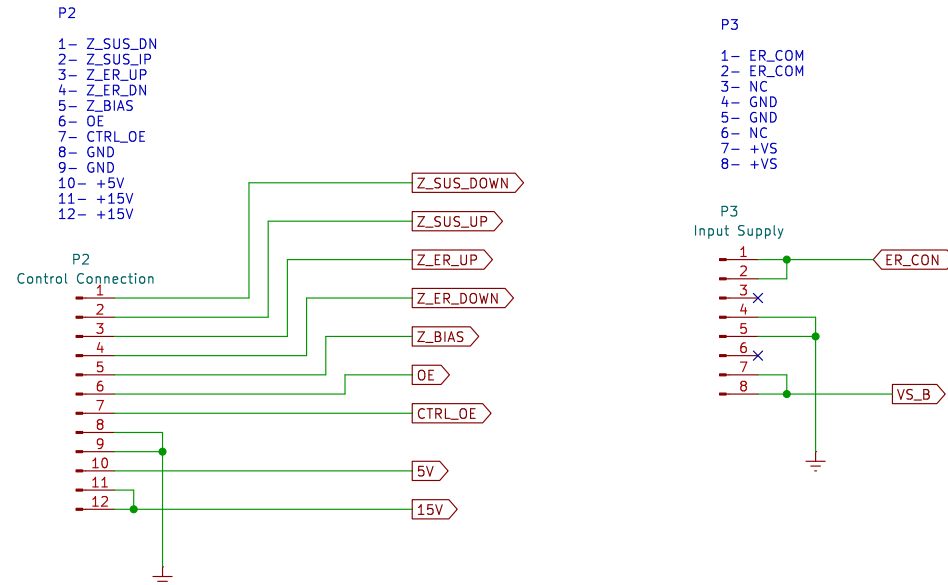


INPUT CONNECTORS



CONNECTIONS

Author: Fábio Pereira da Silva

Sheet: /

File: x_board.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4

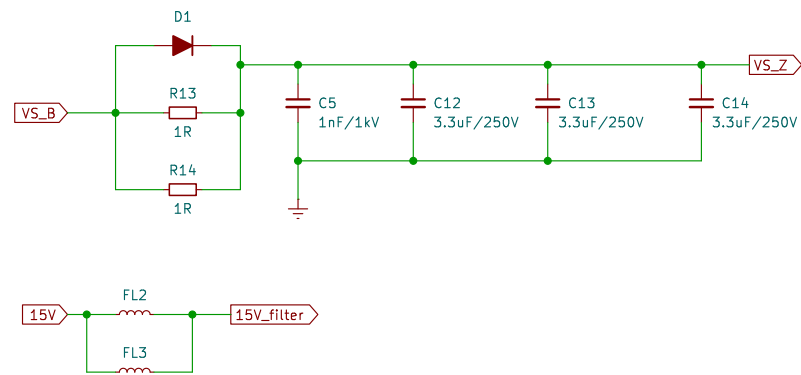
Date: 2025-04-03

Rev: 1.0

KiCad E.D.A. 8.0.9

Id: 1/11

Z POWER SUPPLY



Z POWER SUPPLY
Author: Fábio Pereira da Silva

Sheet: /Z POWER SUPPLY/
File: z_power_supply.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	Rev: 1.0
KiCad E.D.A. 8.0.9		Id: 2/11

Z CONTROL

5V

Z_SUS_DOWN

Z_SUS_UP

Z_ER_UP

Z_ER_DOWN

Z_BIAS

OE

CTRL_OE

R26 47

R32 4.2k

R27 47

R33 4.2k

R29 47

R35 4.2k

R11 47

R31 4.2k

R23 47

R30 4.2k

C10

C9

R17 4.7k

C8

R28 4.7k

IC1 VHCT541A

20

2 VCC

3 A0

4 A1

5 A2

6 A3

7 A4

8 A5

9 A6

10 GND

11 Y7

12 Y6

13 Y5

14 Y4

15 Y3

16 Y2

17 Y1

18 Z_SUS_DOWN_5V_A

19 G1

20 G2

Z_SUS_UP_5V_A

Z_ER_UP_5V

Z_ER_DOWN_5V

Z_BIAS_5V

Sheet: /Z_CONTROL/
File: z_ctrl.kicad_sch

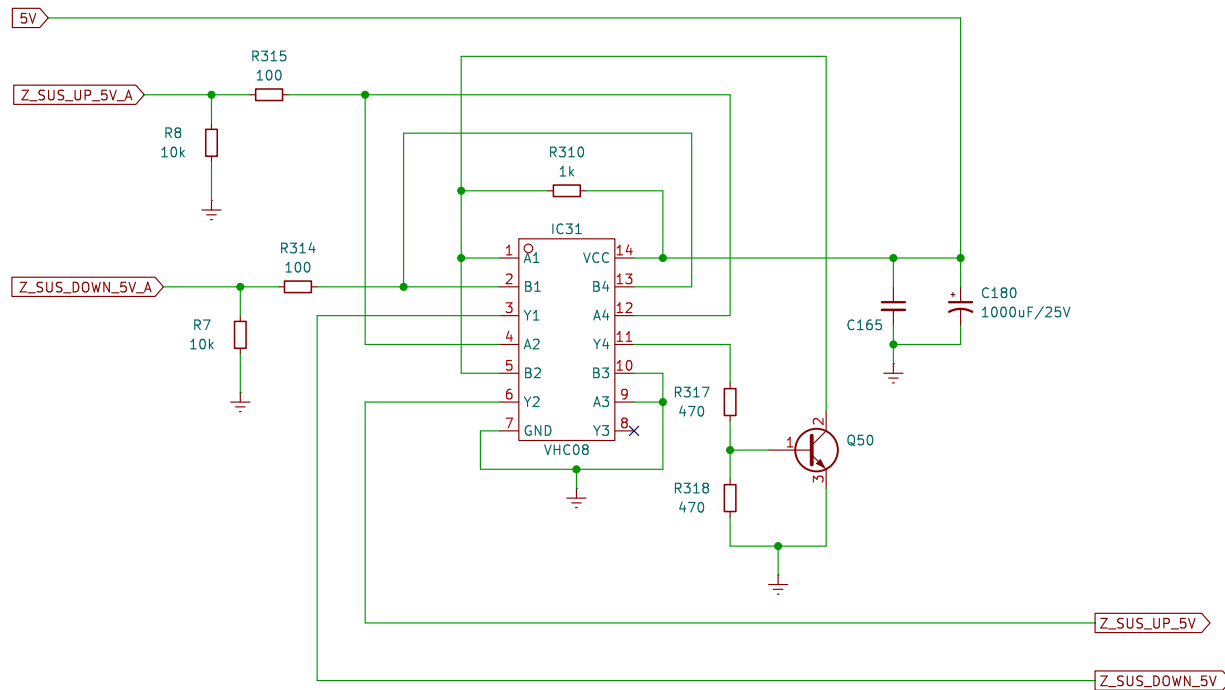
Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03 Rev: 1.0

KiCad E.D.A. 8.0.9 Id: 3/11

Rev: 1.0
Id: 3/11

Z PROTECTION



Z PROTECTION
Author: Fábio Pereira da Silva

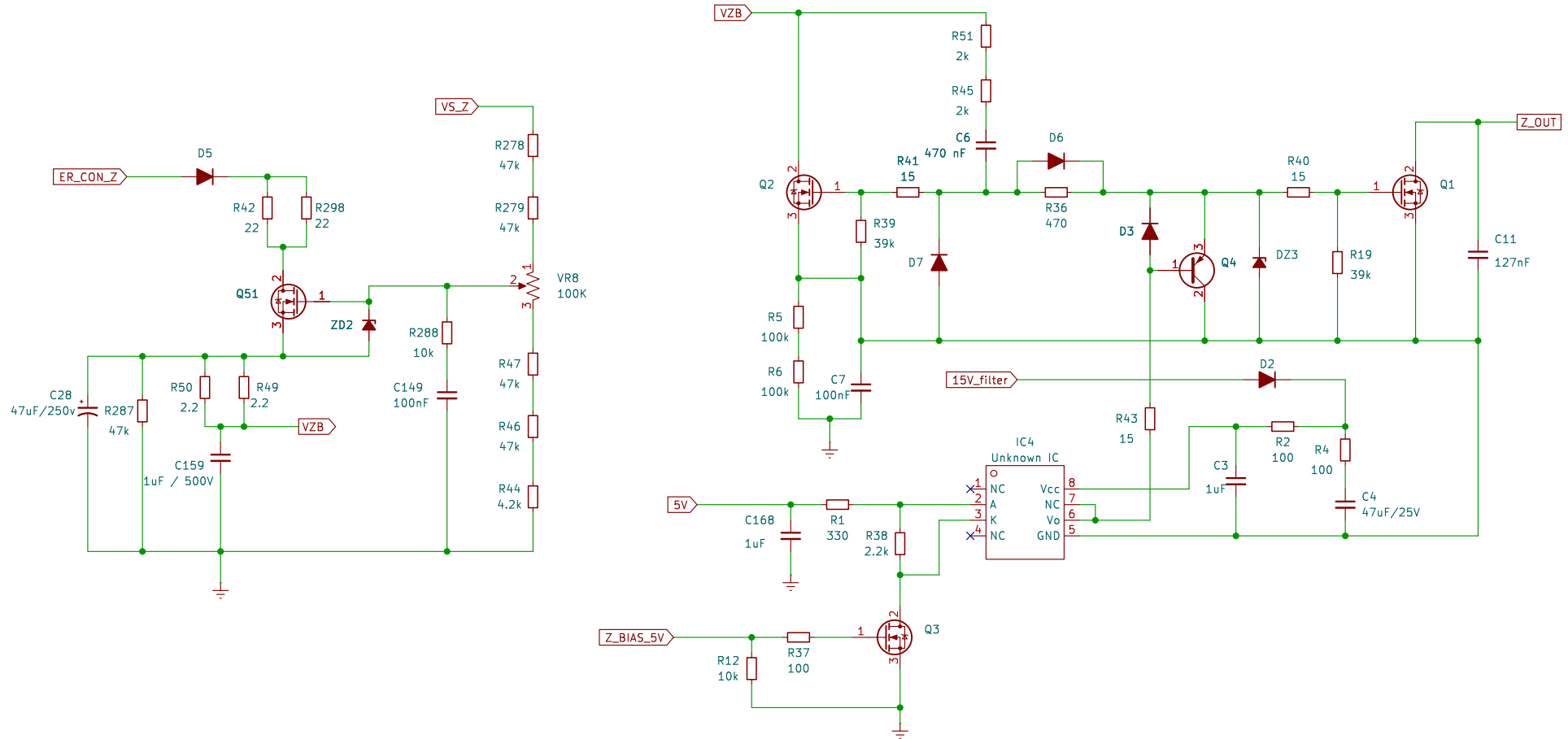
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File: z_protection.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03
KiCad E.D.A. 8.0.9

Rev: 1.0
Id: 4/11

VZB



VZB
Author: Fábio Pereira da Silva

Sheet: /VZB/
File: vzb.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

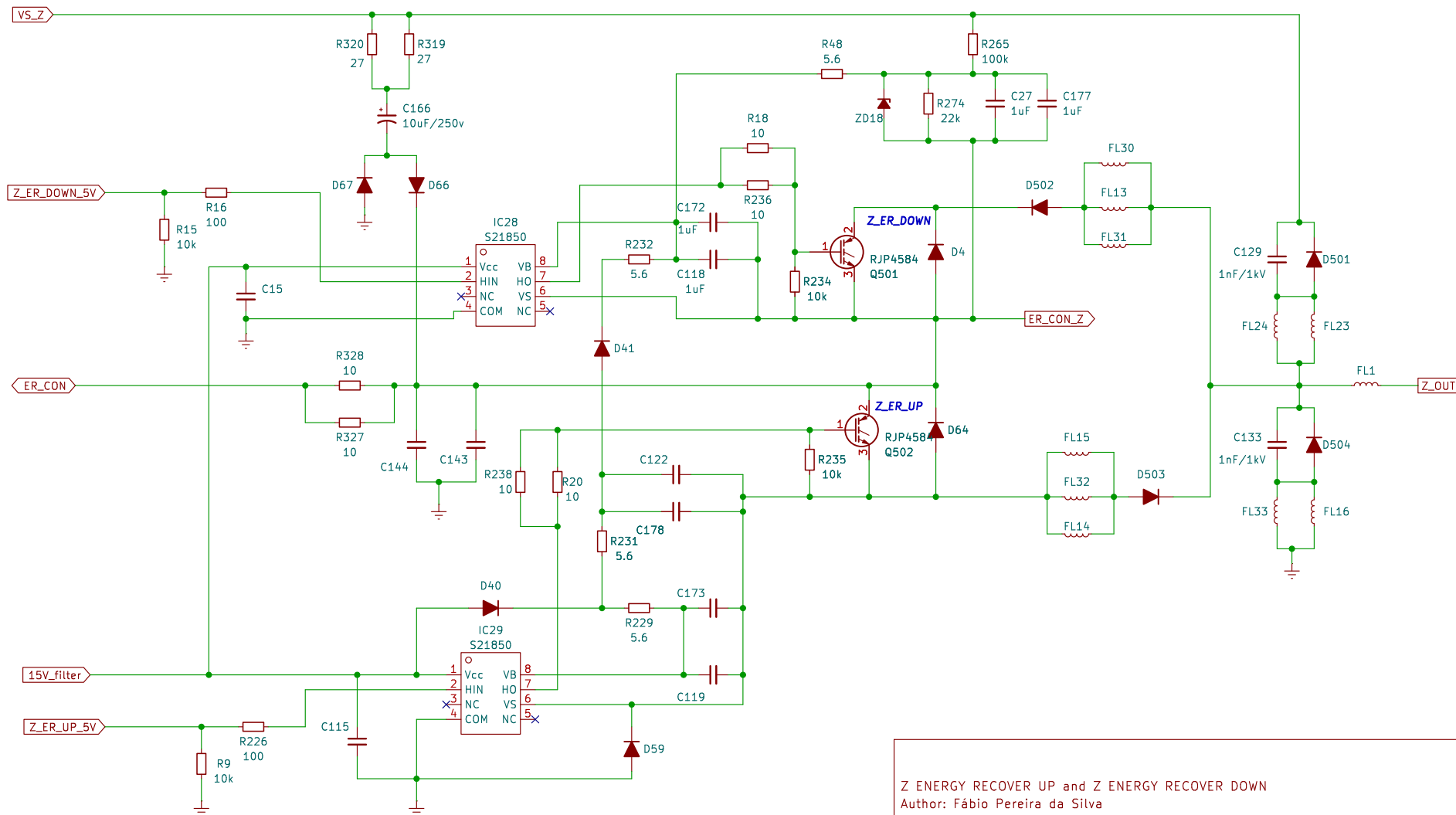
Size: A4 Date: 2025-04-03

KiCad E.D.A. 8.0.9

Rev: 1.0

Id: 5/11

Z ENERGY RECOVER UP and Z ENERGY RECOVER DOWN



Z ENERGY RECOVER UP and Z ENERGY RECOVER DOWN
 Author: Fábio Pereira da Silva

Sheet: /Z_ER_UP_AND_Z_ER_DOWN/
 File: z_er_up_and_z_er_dn.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4

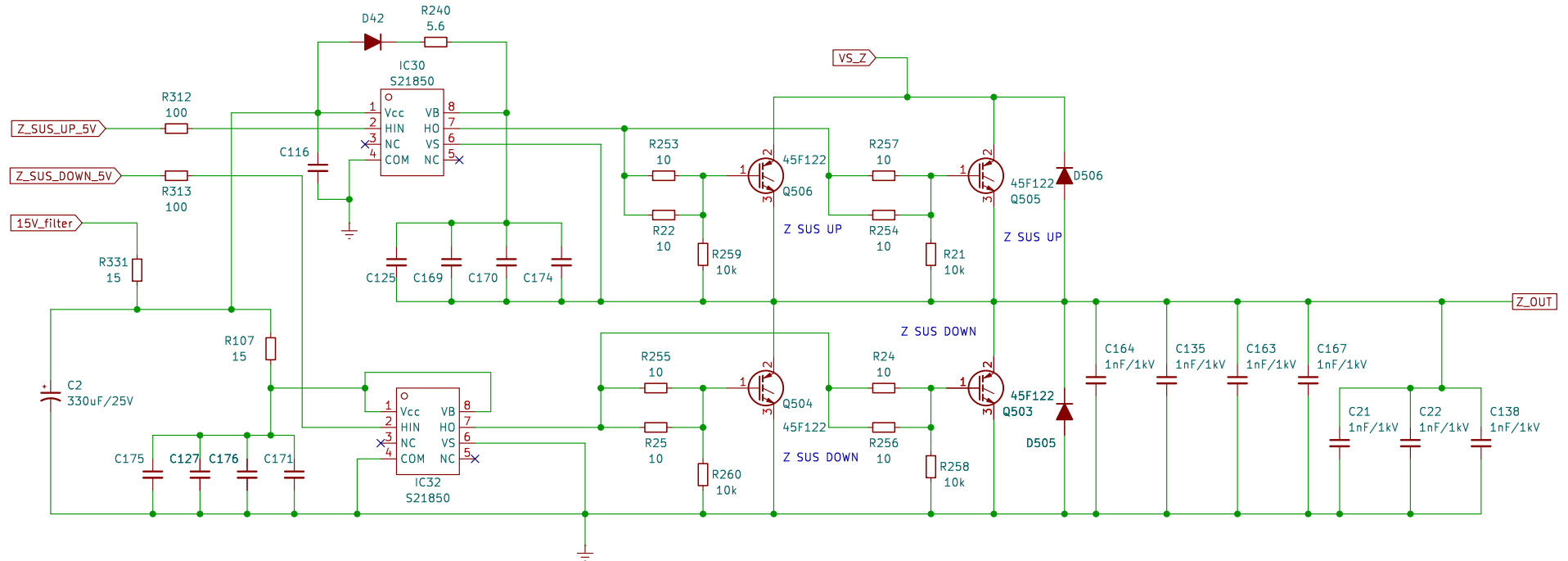
Date: 2025-04-03

Rev: 1.0

KiCad E.D.A. 8.0.9

Id: 6/11

Z SUS UP and Z SUS DOWN



Z SUS UP AND Z SUS DOWN
Author: Fábio Pereira da Silva

Sheet: /Z SUS UP AND Z SUS DOWN/
File: z_sus_up_and_z_sus_dn.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4

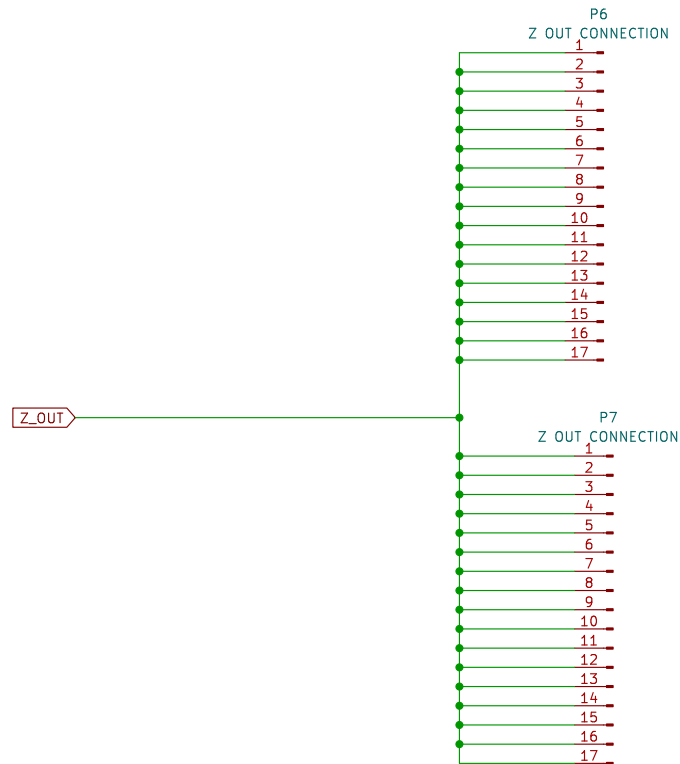
Date: 2025-04-03

Rev: 1.0

KiCad E.D.A. 8.0.9

Id: 7/11

Z OUT CONNECTORS



Z OUT CONNECTIONS
Author: Fábio Pereira da Silva

Sheet: /Z_OUT_CONNECTIONS/
File: z_out_conn.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03
KiCad E.D.A. 8.0.9

Rev: 1.0
Id: 8/11

Measurements (P3)

P3

Res (OHMS)	Reverse bias (V)	Foward bias (V)
1– 246k	1– 0.501	1– OL
2– 246k	2– 0.501	2– OL
3– OL	3– OL	3– OL
4– 0	4– 0	4– 0
5– 0	5– 0	5– 0
6– OL	6– OL	6– OL
7– 127k	7– 0.744	7– OL
8– 127k	8– 0.744	8– OL

Measurements (P3)
Author: Fábio Pereira da Silva

Sheet: /Measurements (P3)/
File: measurements_p3.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03

KiCad E.D.A. 8.0.9

Rev: 1.0

Id: 9/11

Measurements (P2)

P2

Res (OHMS)	Reverse bias (V)	Foward bias (V)
1– 4.723k	1– 0.720	1– 2.727
2– 4.737k	2– 0.720	2– 2.729
3– 4.733k	3– 0.718	3– 2.729
4– 4.779k	4– 0.718	4– 2.737
5– 4.768k	5– 0.718	5– 2.736
6– 0L	6– 0.725	6– 0L
7– 0L	7– 0.722	7– 0L
8– 0	8– 0	8– 0
9– 0	9– 0	9– 0
10– 0L	10– 0.536	10– 0L
11– 0L	11– 0.524	11– 0L
12– 0L	12– 0.524	12– 0L

Measurements (P2)
Author: Fábio Pereira da Silva

Sheet: /Measurements (P2)/
File: measurements_p2.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4	Date: 2025-04-03	Rev: 1.0
KiCad E.D.A. 8.0.9		Id: 10/11

Measurements (P6) and (P7)

P6 and P7 (All pins with Ground reference)

Res (OHMS)	Reverse bias (V)	Foward bias (V)
183k	OL	0.372

P6 and P7 (All pins with VS reference)

Res (OHMS)	Reverse bias (V)	Foward bias (V)
—	OL	0.379

Measurements P6 and P7
Author: Fábio Pereira da Silva

Sheet: /Measurements (P6 and P7)/
File: measurements_p6_and_p7.kicad_sch

Title: X BOARD LG PLASMA TV PANEL

Size: A4 Date: 2025-04-03

KiCad E.D.A. 8.0.9

Rev: 1.0

Id: 11/11